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. NMNM4986 **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: Oil Well 1b. Type of Well: Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone DAMA DORADA 1/3 FED COM 2. Name of Operator 9. API Well No. MEWBOURNE OIL COMPANY 30**-0**15**-5**5787 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory AVALON/BONE SPRING P O BOX 5270, HOBBS, NM 88241 (575) 393-5905 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 SEC 1/T20S/R27E/NMP At surface SESE / 950 FSL / 265 FEL / LAT 32.597877 / LONG -104.22664 At proposed prod. zone SWSW / 500 FSL / 100 FWL / LAT 32.5968738 / LONG -104,2769209 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State **EDDY** NM 20 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 205 feet location to nearest property or lease line, ft. 480.0 (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, 20 feet 7977 feet / 23907 feet FED: NM1693 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3374 feet 07/07/2024 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 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 Name (Printed/Typed) Date 25. Signature BRADLEY BISHOP / Ph: (575) 393-5905 05/16/2024 (Electronic Submission) Title Regulatory Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CHRISTOPHER WALLS / Ph: (575) 234-2234 11/01/2024 Title Office Petroleum Engineer Carlsbad Field 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.

APPROVED WITH CONDITIONS Released to Imaging: 12/2/2024 1:22:24 PM Approval Date: 11/01/2024

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)

eived by	OCD: 11	/4/2024 10:	38:25 AM												
C-10	2				State of Nev						Revised July 9, 2024				
			En			al Resources Departn	nent								
	Electronical	у		OIL (CONSERVAT	ΓΙΟΝ DIVISION			∏ Initia	1 0	hmittal				
Via OCI) Permitting							Submi	ttal X						
								Type:			Report				
									☐ As D	rille	a				
			1		WELL LOCAT	Pool Name Old Millman Ranch; Bone Spring (Assoc) AVALON; BONE SPRING									
API Nu 30-015	mber 5-55787		Pool Code 48035	96381		Pool Name AVALO									
Propert 336544	4		Property N	DAN		A 1/3 FED CON			Well Nu	ımbe	628H				
OGRID	No. 14	744	Operator N	ame MF\	NBOURNE	OIL COMPANY	<i>(</i>		Ground	Lev 33	el Elevation 74				
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal						Mineral Owner: □		☐ Tribal	X Federal	00	<i>1</i> -				
					Surf	ace Location									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude		County				
Р	1	20	27		500 FSL	10 FEL	32.596	3433	-104.22581	85	EDDY				
<u>'</u>	'					Hole Location	02.000	3-100			LDD1				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude		County				
P	1	20	27	Lot	500 FSL	100 FEL	32.596	2//7	-104.2261	107	EDDY				
Г	ı	20	21		300 F3L	100 FEL	32.390	3447	101.2201		LDD1				
D. 1:4	1	IE11 D.E	377-11	D-C-i	337-11 A DI	01	II:4 (X/NI)	C1	: 1-4: C- 1-						
	ted Acres	Infill or Defi	•	Defining	Well API	Overlapping Spacing	(Y/N)	Conson	idation Code						
-	.80	DEFIN	IING			Well setbacks are under Common Ownership: □Yes □No									
Order N	Numbers.					Well setbacks are un	der Common	Ownersh	ıp: ∐Yes ∐N	0					
	_				Kick O	off Point (KOP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude		County				
Р	1	20	27		500 FSL	10 FEL	32.596	-104.22581	85	EDDY					
l .	1.	.1	W.	II.	First Ta	ake Point (FTP)			•						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude		County					
Р	1	20	27		500 FSL	100 FEL	32.596	6447	-104.2261	107	EDDY				
			1	II	Last Ta	ake Point (LTP)	_								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude		County				
М	3	20	27		500 FSL	100 FWL	32.596	3738	-104.27692	209	EDDY				
101					000102	1001112	02.000	3100							
Unitize	d Area or Ar	ea of Uniform l	Interest	Specing	Unit Type XHoriz	zontal Vartical	Grou	nd Floor	Elevation:						
o mines	4 : 11 • 4 • 5 : 1 11			Spacing	Omit Type K Tion.	zontai 🗆 Verticai	0100	11001	3	37	4				
OPERA	ATOR CERT	IFICATIONS				SURVEYOR CERTIFIC	CATIONS								
					plete to the best of	I hereby certify that the w	ell location sho	wn on this	plat was plotte	d fro	n field notes of actual				
		ef, and, if the wel ns a working inte				surveys made by me or und my belief.	der my supervis	on, and th	at the same is tri	ue an	d correct to the best of				
including	g the proposed	bottom hole loca	tion or has a rig	tht to drill thi	is well at this	my center.									
interest,	or to a volunte	ary pooling agree			r unleased mineral g order heretofore										
entered l	by the division														
		tal well, I further													
in each t	tract (in the tar	get pool or forma	ation) in which a	ny part of the	sed mineral interest e well's completed										
interval	_	or obtained a co.	1	g order from											
Ry	ian M	cdanie	l		11/4/24	-									
Signature	e		Date			Signature and Seal of Professional Surveyor									
RY	<u>'AN MC</u>	DANIEL													
Printed N	Name					Certificate Number	Date of Surv	ey							
RY	'ANMCI	DANIEL@	MEWBO	DURNE	E.COM										

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

12 Dedicated Acres

480

13 Joint or Infill

14 Consolidation Code

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

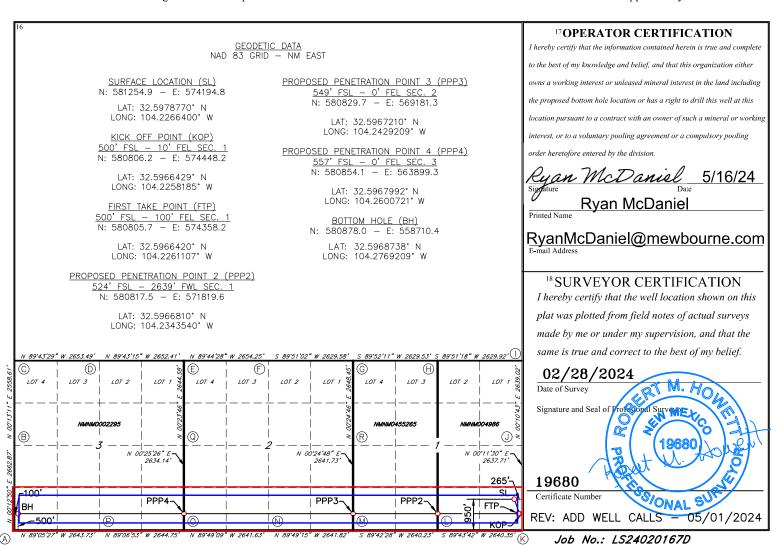
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	¹ API Numbe	r		² Pool Code		Old Millman Ranch: Bone Spring (Assoc)							
30-01	5-5578	7		96381	ING"								
⁴ Property Co					6 Well Number								
3365	44			DAMA	628H								
7 OGRID	NO.				⁹ Elevation								
14744	4			MEWBOURNE OIL COMPANY 3374'									
	¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet From the	East/West line		County		
P	1	20S	27E		950		SOUTH	265	EAS	EAST EDDY			
			¹¹]	Bottom H	lole Loca	tion	If Different Fr	om Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/We	st line	County		
M	3	20S	27E		500		SOUTH	100	WES	ST	EDDY		

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

15 Order No.



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	2 Pool Code 96381						
⁴ Property Code		operty Name DA 1/3 FED COM	⁶ Well Number 628H				
⁷ OGRID NO. 14744		perator Name E OIL COMPANY	⁹ Elevation 3374				

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line Feet From t		East/West line	County					
P	1	20S	27E		950	SOUTH	265	EAST	EDDY					
11 Bottom Hole Location If Different From Surface														
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County					
M	3	20S	27E		500	SOUTH	100	WEST	EDDY					

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

16			17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either
			owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this
	<u>CORNE</u> NAD 83 GRID		location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
	A: FOUND BRASS CAP "1942" N: 580379.7 - E: 558608.6	J: FOUND BRASS CAP "1942" N: 582943.4 — E: 574465.3	oraer nerewyore emerea vy me awixion.
	B: FOUND BRASS CAP "1942" N: 583041.9 - E: 558618.6	K: FOUND BRASS CAP "1942" N: 580306.3 — E: 574456.5	Signature Date
	C: FOUND BRASS CAP "1942" N: 585599.9 - E: 558628.4	L: FOUND BRASS CAP "1942" N: 580293.8 — E: 571816.8	Printed Name
	D: FOUND BRASS CAP "1942" N: 585587.2 - E: 561281.2	M: FOUND BRASS CAP "1942" N: 580280.4 — E: 569177.3	E-mail Address
	E: FOUND BRASS CAP "1942" N: 585574.2 - E: 563932.9	N: FOUND BRASS CAP "1942" N: 580288.6 — E: 566536.1	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this
	F: FOUND BRASS CAP "1942" N: 585562.3 — E: 566586.5	O: FOUND BRASS CAP "1942" N: 580297.0 — E: 563895.2	plat was plotted from field notes of actual surveys
	G: FOUND BRASS CAP "1942" N: 585569.1 — E: 569215.4	P: FOUND BRASS CAP "1942" N: 580337.8 — E: 561251.4	made by me or under my supervision, and that the same is true and correct to the best of my belief.
	H: FOUND BRASS CAP "1942" N: 585575.1 — E: 571844.3	Q: FOUND BRASS CAP "1942" N: 582930.4 — E: 563914.6	02/28/2024 Date of Survey
	I: FOUND BRASS CAP "1942" N: 585581.8 — E: 574473.6	R: FOUND BRASS CAP "1942" N: 582921.4 — E: 569196.4	19680 Certificate Number REV: ADD WELL CALLS = 05/01/2024
i			KEV: ADD WELL CALLS - 05/01/2024

Job No.: LS24020167D

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

	N	NATURAL G	SAS MANA	GEMENT P	LAN		
This Natural Gas	Management Plan n	nust be submitted v	vith each Applicat	ion for Permit to l	Drill (APD) for	a new o	r recompleted well.
		Section <u>E</u>	1 — Plan De Effective May 25,	escription 2021			
I. Operator:	Mewbourne	Oil Co.	OGRID:	14744	Date	e: <u>5/2</u>	2/22
II. Type: 🗶 Orig	ginal □ Amendmen	t due to □ 19.15.27	7.9.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NMAC [☐ Other.	
If Other, please d	escribe:						
	vide the following ir com a single well pac				wells proposed	to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated Produced Water BBL/D
DAMA DORADA 1/3 FED	СОМ 628Н	P 1 20S 27E	950' FSL x 265' FE	2000	3500		3500
IV. Central Deli	very Point Name: _	DAM	MA DORADA 1/3	FED COM 628H	[See	19.15.2	27.9(D)(1) NMAC]
	chedule: Provide the completed from a si				vell or set of we	ells propo	osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		l Flow CDate	First Production Date
DAMA DORADA 1/3 FED	СОМ 628 Н	7/2/22	8/2/22	9/2/22	9/17	/22	9/17/22
VII. Operationa Subsection A thro VIII. Best Mana	Equipment: ☑ Attactives: ☑ Attactives: ☑ Attactives: ☑ Attactives: ☑ Attactives: ☐ At	ch a complete desc NMAC.	cription of the act	ions Operator wil	ll take to comp	ly with t	the requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

X 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. \square 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 natural 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 portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

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

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

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Section 3 - Certifications <u>Effective May</u> 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: power generation on lease; (a) (b) power generation for grid; compression on lease; (c) liquids removal on lease; (d)

- reinjection for underground storage; (e)
- reinjection for temporary storage; **(f)**
- reinjection for enhanced oil recovery; **(g)**
- fuel cell production; and (h)
- 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:
- 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
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	5/2/22
Phone:	575-393-5905
-	OIL CONSERVATION DIVISION
	(Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of Ap	pproval:

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.



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

Drilling Plan Data Report

BUREAU OF LAND MANAGEMEN I

Submission Date: 05/16/2024

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: DAMA DORADA 1/3 FED COM

Well Number: 628H

Well Type: OIL WELL

APD ID: 10400098535

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

	<u> </u>						
Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14430051	UNKNOWN	3320	28	28	OTHER : Topsoil	NONE	N
14430046	TANSILL	2721	599	599	DOLOMITE	NATURAL GAS, OIL	N
14430064	YATES	2590	730	730	SANDSTONE	NATURAL GAS, OIL	N
14430065	SEVEN RIVERS	2112	1208	1208	DOLOMITE	NATURAL GAS, OIL	N
14430047	QUEEN	1714	1606	1606	DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N
14430048	SAN ANDRES	957	2363	2363	DOLOMITE	NATURAL GAS, OIL	N
14430057	LAMAR	425	2895	2895	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	N
14430049	BRUSHY CANYON	-137	3457	3457	SANDSTONE	NATURAL GAS, OIL	N
14430050	BONE SPRING	-713	4033	4033	LIMESTONE	NATURAL GAS, OIL	N
14430053	BONE SPRING 1ST	-2735	6055	6055	SANDSTONE	NATURAL GAS, OIL	N
14430054	BONE SPRING 2ND	-3680	7000	7000	SANDSTONE	NATURAL GAS, OIL	N
14430069	BONE SPRING 3RD	-4810	8130	8130	SANDSTONE	NATURAL GAS, OIL	Y
14430070	WOLFCAMP	-5210	8530	8530	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Well Name: DAMA DORADA 1/3 FED COM Well Number: 628H

Pressure Rating (PSI): 5M Rating Depth: 23907

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

Requesting Variance? YES

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

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

Choke Diagram Attachment:

Dama_Dorada_1_3_Fed_Com_628H_5M_BOPE_Choke_Diagram_20240516110939.pdf Flex Line Specs API 16C 20241009104434.pdf

BOP Diagram Attachment:

Dama_Dorada_1_3_Fed_Com_628H_5M_BOPE_Schematic_20240516111007.pdf

Dama_Dorada_1_3_Fed_Com_628H_Vault_5K_WH_1002000AD1_20240516111031.pdf

Dama Dorada 1 3 Fed Com 628H Mewbourne Break Testing Variance 20240516111040.pdf

Vault_WH_Drawing_with_Tbg_Spool_1002000AD2_20241009104454.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	450	0	450	3374	2924	450	H-40	48	ST&C	3.83	8.6	DRY	14.9 1	DRY	25.0 5
2	INTERMED IATE	12 . 2 5	9.625	NEW	API	N	0	2850	0	2850	3713	524	2850	J-55	36	LT&C	1.51	2.64	DRY	4.42	DRY	5.5
3	PRODUCTI ON	8.75	7.0	NEW	API	Υ	0	7837	0	7783	3713	-4409	7837	P- 110	26	LT&C	1.54	2.46	DRY	3.4	DRY	4.07
4	PRODUCTI ON	8.5	5.5	NEW	API	Y	7837	23907	7783	8372	-4409	-4998	16070	P- 110	20	LT&C	2.12	2.42	DRY	1.15	DRY	1.34

Well Name: DAMA DORADA 1/3 FED COM Well Number: 628H

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dama_Dorada_1_3_Fed_Com_628H_CsgAssumptions_20240516111147.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

String

Dama_Dorada_1_3_Fed_Com_628H_CsgAssumptions_20240516111214.pdf

Casing ID: 3

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Dama_Dorada_1_3_Fed_Com_628H_Tapered_String_20240516111236.pdf

Casing Design Assumptions and Worksheet(s):

Dama_Dorada_1_3_Fed_Com_628H_CsgAssumptions_20240516111304.pdf

Well Name: DAMA DORADA 1/3 FED COM Well Number: 628H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Dama_Dorada_1_3_Fed_Com_628H_Tapered_String_20240516111346.pdf

Casing Design Assumptions and Worksheet(s):

Dama_Dorada_1_3_Fed_Com_628H_CsgAssumptions_20240516111406.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
PRODUCTION	Lead		0	0	0	0	0	0		0	0

SURFACE	Lead	0	261	170	2.12	12.5	370	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail	261	450	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead	0	2167	400	2.12	12.5	850	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail	2167	2850	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	2650	6379	460	2.12	12.5	980	25	Class C	Gel, Retarder, Defoamer, Extender LCM
PRODUCTION	Tail	6379	2390 7	2490	1.85	13.5	4607	25	Class H	Retarder, Fluid Loss, Defoamer

Well Name: DAMA DORADA 1/3 FED COM Well Number: 628H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

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

Describe the mud monitoring system utilized: 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	450	SPUD MUD	8.4	8.6	1	V					
450	2850	SALT SATURATED	8.4	9	,						
2850	7837	WATER-BASED MUD	8.6	10							
7837	2390 7	OIL-BASED MUD	9.5	12							

Well Name: DAMA DORADA 1/3 FED COM Well Number: 628H

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (7837') to surface (horizontal well vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.

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

DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG, GAMMA RAY LOG, COMPENSATED NEUTRON LOG.

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5224 Anticipated Surface Pressure: 3393

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_20240507095055.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

```
Dama_Dorada_1_3_Fed_Com_628H_MOC_Dir_Plan_20240516111956.pdf
Dama_Dorada_1_3_Fed_Com_628H_MOC_Dir_Plot_20240516112000.pdf
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Other proposed operations facets description:

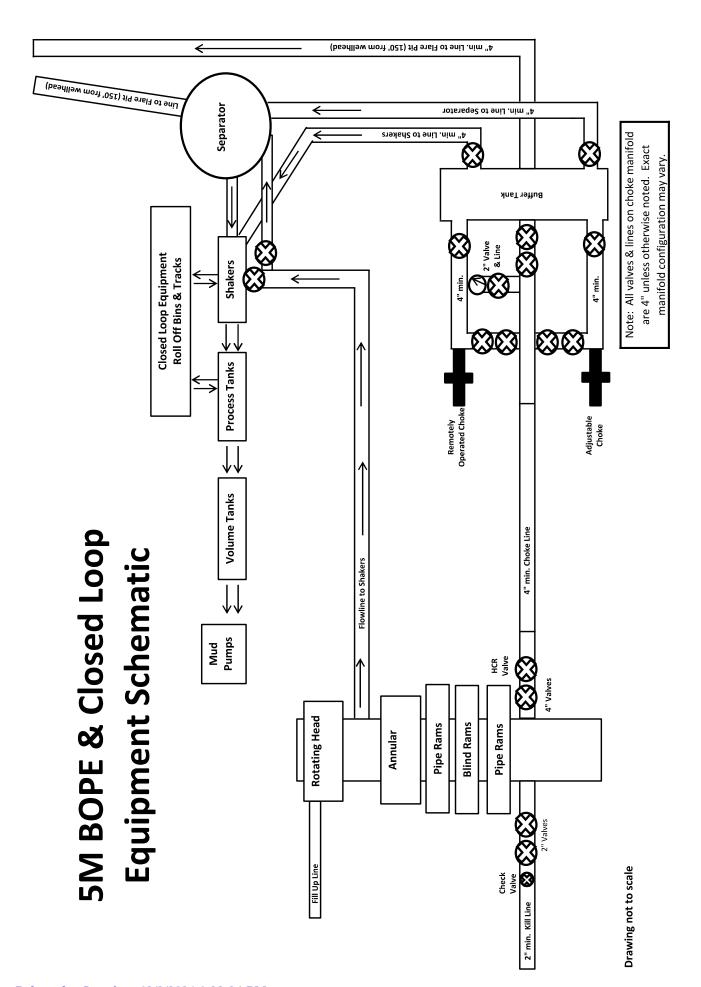
Variance is request to perform offline cementing according to the attached procedure.

Other proposed operations facets attachment:

```
Dama_Dorada_1_3_Fed_Com_628H_Mewbourne_Break_Testing_Variance_20240516112027.pdf
Dama_Dorada_1_3_Fed_Com_628H_Mewbourne_Offline_Cementing_Variance_20240516112032.pdf
Dama_Dorada_1_3_Fed_Com_628H_Drlg_Program_20241015085639.pdf
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Other Variance attachment:







LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

№: 230826015

Product Name Product Specification	1	ke And Kill Hose		Standard	I AF	PI Spec 16C 3 rd edition
Product Specification	24 1000		Choke And Kill Hose			•
	3"×10000psi×60ft (18.29m)			Serial Num	ber	7660144
Inspection Equipment	MTU	MTU-BS-1600-3200-E			ım	Water
Inspection Department	Q	.C. Department		Inspection I	Date	2023.08.26
	- 1	Rate of le	ngth chang	ge		
Standard requirements	At working pre	ssure, the rate of le	ngth chang	e should not m	nore than ± 2	%
Testing result	10000psi (69.0	MPa) ,Rate of leng	th change ().7%		
		Hydrosta	ntic testing			
Standard requirements At 1.5 times working pressure, the initial pressure-holding period of not less than three minute the second pressure-holding period of not less than one hour, no leaks.						ess than three minutes
Testing result	15000psi (103.	5MPa), 3 min for th	ne first tim	e, 60 min for th	ne second time	e, no leakage
Graph of pressure testing	:					
100 95 10 10 10 10 10 10 10 10 10 10 10 10 10			100 90 70 70 60 50 10			
Conclusion	१५६६म् ११५६२१ ११५६२ ११५६	ม พละม พละม พละม พละมหล ted items meet stan	21:29:54 21:	9:SI 23:49:SB 23:59:	ant (2004/2000) (2016/2000)	7000 (1000) 1000 1
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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℃~+121℃	Standard	API Spec 16C 3 rd edition			
Inspection Department	Q.C. Department	Inspection date	2023.08.26			

	Inspection	on Items	3		Inspection results			
	Appearance (Checkin	g		In accordance with API Spec 16C 3 rd edition			
	Size and Lengths				In accordance with API Spec 16C 3 rd edition			
Γ	Dimensions and Tolerances				In accordance with API Spec 16C 3 rd 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 rd edition			
	Hydrostatic	Testing			In accordance with API Spec 16C 3 rd edition			
	product M	arking			In accordance with API Spec 16C 3 rd edition			
Inspection con	Inspection conclusion The inspected items m				eet standard requirer	ments of API Spec	16C 3 rd edition	
Remark	Remarks							
Approver	Jian long (Chen	Auditor	1/1	nging 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

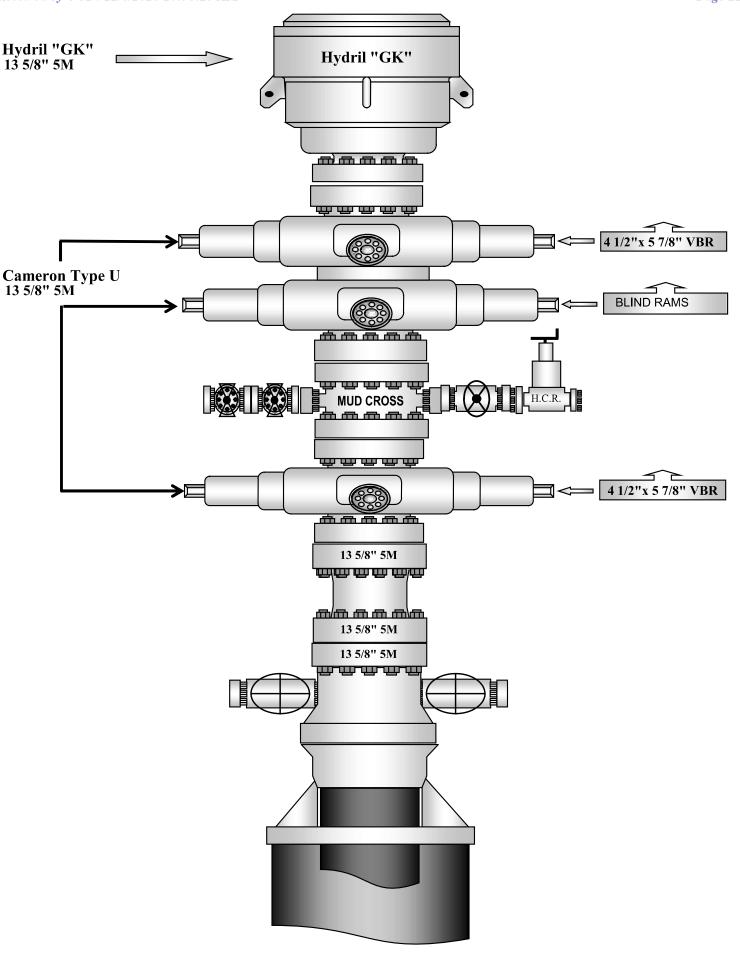
End Connections: 4-1/16"×10000psi Integral flange for sour gas service

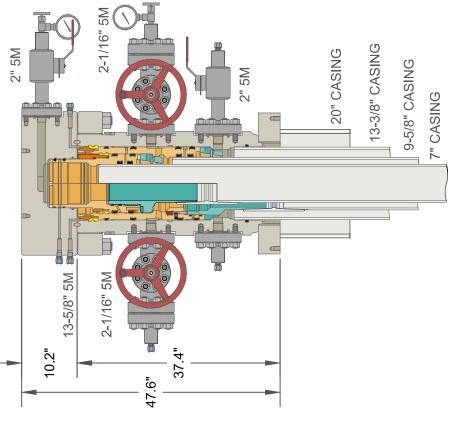
The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. in Aug 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Aug 26, 2023. The overall condition is good. This is to certify that the Choke And Kill Hose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

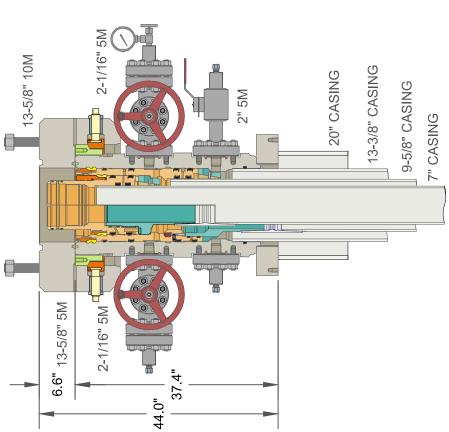
Jian long Chen

QC Manager:

Date: Aug 26, 2023











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Mewbourne Oil Co.

BOP Break Testing Variance

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

Procedures

- 1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
- 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 guick 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.



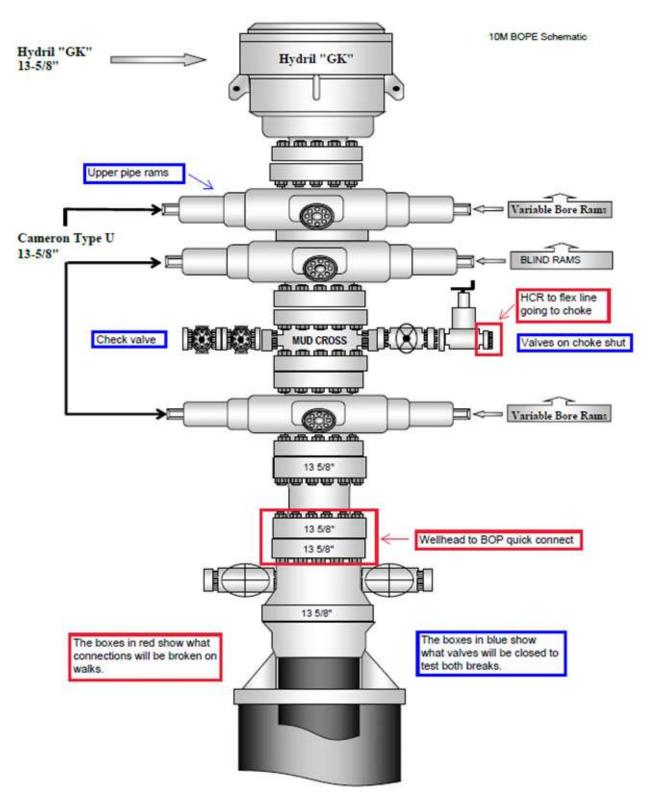


Figure 1. BOP diagram



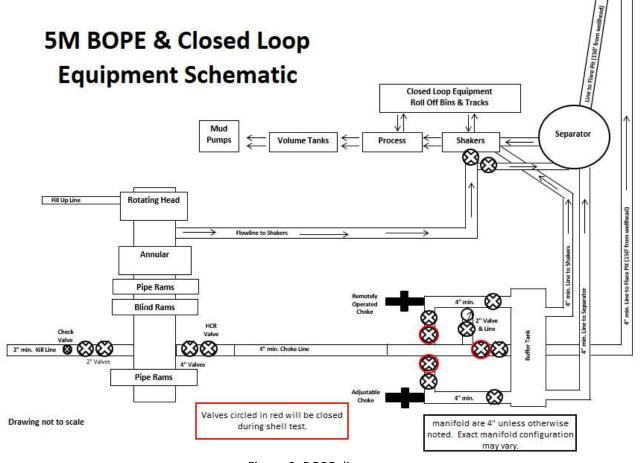


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



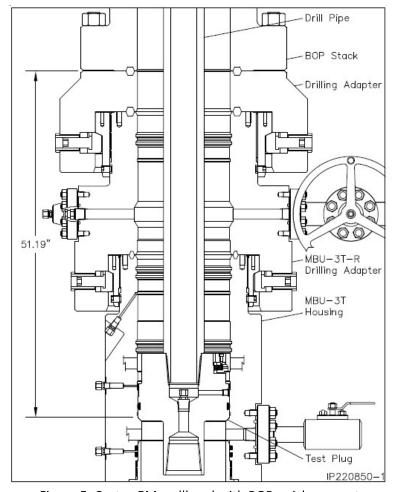


Figure 5. Cactus 5M wellhead with BOP quick connect

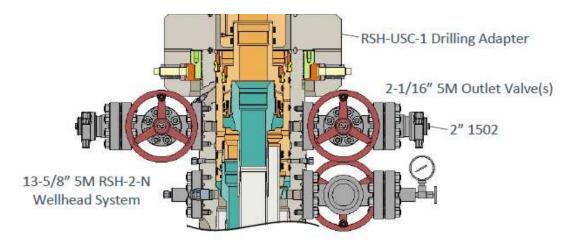
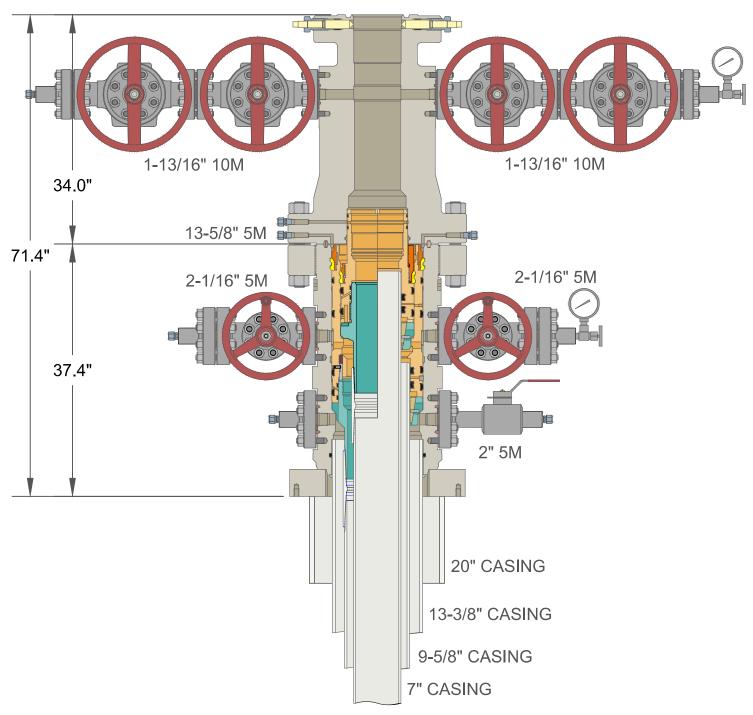


Figure 6. Vault 5M wellhead with BOP quick connect







20" X 13-3/8" X 9-5/8" X 7" 5M RSH-2N WELLHEAD ASSEMBLY, WITH T-EBS-F TUBING HEAD

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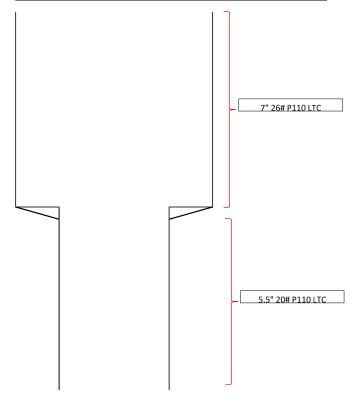
Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H

Sec 1, T20S, R27E SHL: 950' FSL & 265' FEL (Sec 1) BHL: 500' FSL & 100' FWL (Sec 3)

Casing Design A

Casing Design A										
	Hole Size	From	То	Csg. Size						
	8.75	0'	7837'	7" 26# P110 LTC						
	8.5	7837'	23907'	5.5" 20# P110 LTC						
	Casing Design R									

Casing De	sigii D		
Hole Size	From	То	Csg. Size
8.75	0'	8737'	7" 26# P110 LTC
8.5	8737'	23907'	5.5" 20# P110 LTC



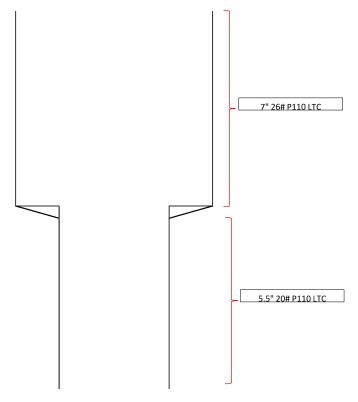
Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H

Sec 1, T20S, R27E SHL: 950' FSL & 265' FEL (Sec 1) BHL: 500' FSL & 100' FWL (Sec 3)

Casing Design A

Casing De	Cashig Design A								
Hole Size	From	То	Csg. Size						
8.75	0'	7837'	7" 26# P110 LTC						
8.5	7837'	23907'	5.5" 20# P110 LTC						
Casing Design R									

Casing De	sign b		
Hole Size	From	То	Csg. Size
8.75	0'	8737'	7" 26# P110 LTC
8.5	8737'	23907'	5.5" 20# P110 LTC



Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 950' FSL 265' FEL (Sec 1)

BHL: 500' FSL 100' FWL (Sec 3)

	Casing Program Design A						1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Тор МД	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	7837'	7783'	7" 26# P110 LTC	1.54	2.46	3.40	4.07
Production	8.5"	7837'	7783'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Cement Program

Cement Program								
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
13.375 III	TAIL	200	14.8	1.34	261' - 450'	268	10076	Class C: Retarder
9,625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM
9.025 111	TAIL	200	14.8	1.34	2167' - 2850'	268	2370	Class C: Retarder
7 in - 5.5 in	LEAD	460	12.5	2.12	2650' - 6379'	980	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ III - 5.5 III	TAIL	2490	13.5	1.85	6379' - 23907'	4607	2370	Class H: Retarder, Fluid Loss, Defoamer

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 7837'	8.6 - 10	Cut-Brine
7837' - 23907'	9.5 - 12	OBM

Geology

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas
San Andres			3rd Bone Spring	8130'	Oil/Natural Gas
Glorieta			Wolfcamp	8530'	Oil/Natural Gas

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

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

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 950' FSL 265' FEL (Sec 1)

SHL: 950' FSL 265' FEL (Sec 1)
BHL: 500' FSL 100' FWL (Sec 3)

	Casing Program Design B						1.125	1.0	1.6 Drv 1.8 Wet	1.6 Dry 1.8 Wet
String Hole Size Top MD Top TVD Bot MD Bo				Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension	
Surface	17.5"	0'	0'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	8737'	8372'	7" 26# P110 LTC	1.43	2.29	3.05	3.65
Production	8.5"	8737'	8372'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	тос/вос	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
13.375 III	TAIL	200	14.8	1.34	261' - 450'	268	100%	Class C: Retarder
9.625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM
9.025 111	TAIL	200	14.8	1.34	2167' - 2850'	268	23%	Class C: Retarder
7 in - 5.5 in	LEAD	540	12.5	2.12	2650' - 7097'	1150	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ 111 - 5.5 111	TAIL	2350	13.5	1.85	7097' - 23907'	4348	25%	Class H: Retarder, Fluid Loss, Defoamer

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 8737'	8.6 - 10	Cut-Brine
8737' - 23907'	9.5 - 12	OBM

Geology

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas
San Andres			3rd Bone Spring	8130'	Oil/Natural Gas
Glorieta			Wolfcamp	8530'	Oil/Natural Gas

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

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

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 950/ FSL 265/ FFL (Sec 1)

SHL: 950' FSL 265' FEL (Sec 1) BHL: 500' FSL 100' FWL (Sec 3)

		Casing Prog	ram Design A			BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	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'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	7837'	7783'	7" 26# P110 LTC	1.54	2.46	3.40	4.07
Production	8.5"	7837'	7783'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Cement Program

Center rogani								
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13.375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	261' - 450'	268	100%	Class C: Retarder
9.625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2167' - 2850'	268	2370	Class C: Retarder
7 in - 5.5 in	LEAD	460	12.5	2.12	2650' - 6379'	980	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	2490	13.5	1.85	6379' - 23907'	4607		Class H: Retarder, Fluid Loss, Defoamer

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 7837'	8.6 - 10	Cut-Brine
7837' - 23907'	9.5 - 12	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas
San Andres			3rd Bone Spring	8130'	Oil/Natural Gas
Glorieta			Wolfcamp	8530'	Oil/Natural Gas

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

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

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 950' FSL 265' FEL (Sec 1)

BHL: 500' FSL 100' FWL (Sec 3)

	Casing Program Design B						1.125	1.0	1.6 Drv 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'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	8737'	8372'	7" 26# P110 LTC	1.43	2.29	3.05	3.65
Production	8.5"	8737'	8372'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	тос/вос	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
13.373 III	TAIL	200	14.8	1.34	261' - 450'	268	100%	Class C: Retarder
9.625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM
9.023 III	TAIL	200	14.8	1.34	2167' - 2850'	268	2370	Class C: Retarder
7 in - 5.5 in	LEAD	540	12.5	2.12	2650' - 7097'	1150	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ 111 - 5.5 111	TAIL	2350	13.5	1.85	7097' - 23907'	4348	25%	Class H: Retarder, Fluid Loss, Defoamer

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 8737'	8.6 - 10	Cut-Brine
8737' - 23907'	9.5 - 12	OBM

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas
San Andres			3rd Bone Spring	8130'	Oil/Natural Gas
Glorieta			Wolfcamp	8530'	Oil/Natural Gas

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

	ensing.
	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 easing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, easing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency easing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 050/ FSL 265' FFL (Sec 1)

SHL: 950' FSL 265' FEL (Sec 1) BHL: 500' FSL 100' FWL (Sec 3)

	Casing Program Design A						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'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	7837'	7783'	7" 26# P110 LTC	1.54	2.46	3.40	4.07
Production	8.5"	7837'	7783'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Cement Program

Cement Frogram									
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description	
13,375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM	
13.375 III	TAIL	200	14.8	1.34	261' - 450'	268	100%	Class C: Retarder	
9,625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM	
9.025 III	TAIL	200	14.8	1.34	2167' - 2850'	268	2370	Class C: Retarder	
7 in - 5.5 in	LEAD	460	12.5	2.12	2650' - 6379'	980	25%	Class C: Salt, Gel, Extender, LCM, Defoamer	
/ III - 5.5 III	TAIL	2490	13.5	1.85	6379' - 23907'	4607	25%	Class H: Retarder, Fluid Loss, Defoamer	

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 7837'	8.6 - 10	Cut-Brine
7837' - 23907'	9.5 - 12	OBM

Geology

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas
San Andres			3rd Bone Spring	8130'	Oil/Natural Gas
Glorieta			Wolfcamp	8530'	Oil/Natural Gas

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500¹ into previous casing?	
L. H. J. P. M. P. JODA	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	IN
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
(con 2 outing mens) it yes, to more a contingency cooling it now encountered cooling.	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 950' FSL 265' FEL (Sec 1)

SHL: 950' FSL 265' FEL (Sec 1) BHL: 500' FSL 100' FWL (Sec 3)

	Casing Program Design B						1.125	1.0	1.6 Drv 1.8 Wet	1.6 Drv 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'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	8737'	8372'	7" 26# P110 LTC	1.43	2.29	3.05	3.65
Production	8.5"	8737'	8372'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	тос/вос	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
13.373 III	TAIL	200	14.8	1.34	261' - 450'	268	100%	Class C: Retarder
9.625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM
7.023 III	TAIL	200	14.8	1.34	2167' - 2850'	268	2370	Class C: Retarder
7 in - 5.5 in	LEAD	540	12.5	2.12	2650' - 7097'	1150	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
/ 111 - 5.5 111	TAIL	2350	13.5	1.85	7097' - 23907'	4348	25%	Class H: Retarder, Fluid Loss, Defoamer

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 8737'	8.6 - 10	Cut-Brine
8737' - 23907'	9.5 - 12	OBM

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas
_					

3rd Bone Spring Wolfcamp 8130' 8530'

Oil/Natural Gas Oil/Natural Gas

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

San Andres Glorieta

	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 easing cement tie back a minimum of 50' above the Reef?	11
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	11
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 950' FSL 265' FEL (Sec 1)

SHL: 950' FSL 265' FEL (Sec 1) BHL: 500' FSL 100' FWL (Sec 3)

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'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	7837'	7783'	7" 26# P110 LTC	1.54	2.46	3.40	4.07
Production	8.5"	7837'	7783'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Cement Program

Cement rogram								
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
13.3/5 III	TAIL	200	14.8	1.34	261' - 450' 268	100%	Class C: Retarder	
9,625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM
9.025 III	TAIL	200	14.8	1.34	2167' - 2850'	268	2370	Class C: Retarder
7 in - 5.5 in	LEAD	460	12.5	12.5 2.12 2650' - 6379' 980		25%	Class C: Salt, Gel, Extender, LCM, Defoamer	
/ In - 5.5 In	TAIL	2490	13.5	1.85	6379' - 23907'	4607	2370	Class H: Retarder, Fluid Loss, Defoamer

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 7837'	8.6 - 10	Cut-Brine
7837' - 23907'	9.5 - 12	OBM

Geology

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas
San Andres			3rd Bone Spring	8130'	Oil/Natural Gas
Glorieta			Wolfcamp	8530'	Oil/Natural Gas

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

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

Oil/Natural Gas

Oil/Natural Gas

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H Sec 1, T20S, R27E SHL: 950' FSL 265' FEL (Sec 1)

BHL: 500' FSL 100' FWL (Sec 3)

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	450'	450'	13.375" 48# H40 STC	3.83	8.60	14.91	25.05
Int	12.25"	0'	0'	2850'	2850'	9.625" 36# J55 LTC	1.51	2.64	4.42	5.50
Production	8.75"	0'	0'	8737'	8372'	7" 26# P110 LTC	1.43	2.29	3.05	3.65
Production	8.5"	8737'	8372'	23907'	8372'	5.5" 20# P110 LTC	2.12	2.42	1.15	1.34

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	тос/вос	Volume ft ³	% Excess	Slurry Description
13,375 in	LEAD	170	12.5	2.12	0' - 261'	370	100%	Class C: Salt, Gel, Extender, LCM
13.373 III	TAIL	200	14.8	1.34	261' - 450'	268	100%	Class C: Retarder
9,625 in	LEAD	400	12.5	2.12	0' - 2167'	850	25%	Class C: Salt, Gel, Extender, LCM
9.023 III	TAIL	200	14.8	1.34	2167' - 2850' 268	2370	Class C: Retarder	
7 in - 5.5 in	LEAD	LEAD 540 12.5 2.12 2650' - 7097' 1150	25%	Class C: Salt, Gel, Extender, LCM, Defoamer				
/ In - 5.5 In	TAIL	2350	13.5	1.85	7097' - 23907'	4348	25%	Class H: Retarder, Fluid Loss, Defoamer

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 450'	8.4 - 8.6	Fresh Water
450' - 2850'	8.4 - 9	Brine
2850' - 8737'	8.6 - 10	Cut-Brine
8737' - 23907'	95-12	OBM

Geology					
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler			Yeso		
Castile			Delaware (Lamar)	2895'	Oil/Natural Gas
Salt Top			Bell Canyon		
Salt Base			Cherry Canyon		
Yates	705'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	1122'	Oil/Natural Gas	Basal Brushy Canyon		
Queen			Bone Spring	3973'	Oil/Natural Gas
Capitan			1st Bone Spring	6055'	Oil/Natural Gas
Grayburg			2nd Bone Spring	7000'	Oil/Natural Gas

3rd Bone Spring

Wolfcamp

8130' 8530'

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

San Andres Glorieta

	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 easing cement tie back a minimum of 50' above the Reef?	- 1
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous easing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Dama Dorada 1/3 Fed Com 628H

Sec 1, T20S, R27E

SHL: 950' FSL 265' FEL (Sec 1) BHL: 500' FSL 100' FWL (Sec 3)

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Dama Dorada 1/3 Fed Com	628H

Kick	()††	Point	(KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	1	20	27	-	500'	FSL	10'	FEL	Eddy
		Latitude				Long	itude		NAD
32.5966433	3				-104.22581	85			83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	1	20	27	-	500'	FSL	100'	FEL	Eddy
		Latitude	-			Long	itude		NAD
32.5966447	7				-104.22611	07			83

Last Take Point (LTP)

Lubt Tuke I	Cint (E11	,							
UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	3	20	27	_	500'	FSL	100'	FWL	Eddy
		Latitude				Long	itude		NAD
32.5968738	}				-104.27692	209			83

Is this well the defining well for the Horizonta Is this well an infill well? N	I Spacing Unit?	
If infill is yes please provide API if available, Spacing Unit.	Operator Name and well number for Defining well for Horizontal	
API#		
Operator Name:	Property Name:	Well Number

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Dama Dorada 1/3 Fed Com #628H Sec 01, T20S, R27E

SHL: 950' FSL & 265' FEL (Sec 1) BHL: 500' FSL & 100' FWL (Sec 3)

Plan: Design #1

Standard Planning Report

01 May, 2024

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Dama Dorada 1/3 Fed Com #628H

Well: Sec 01, T20S, R27E

Wellbore: BHL: 500' FSL & 100' FWL (Sec 3)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Dama Dorada 1/3 Fed Com #628H WELL @ 3402.0usft (Original Well Elev) WELL @ 3402.0usft (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: North American Datum 196
New Mexico Eastern Zone

System Datum:

Ground Level

Site Dama Dorada 1/3 Fed Com #628H

 Site Position:
 Northing:
 581,254.90 usft
 Latitude:
 32.5978771

 From:
 Map
 Easting:
 574,194.80 usft
 Longitude:
 -104.2266398

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

Well Sec 01, T20S, R27E

 Well Position
 +N/-S
 0.0 usft
 Northing:
 581,254.90 usft
 Latitude:
 32.5978771

 +E/-W
 0.0 usft
 Easting:
 574,194.80 usft
 Longitude:
 -104.2266398

Position Uncertainty0.0 usftWellhead Elevation:3,402.0 usftGround Level:3,374.0 usft

Grid Convergence: 0.06 °

Wellbore BHL: 500' FSL & 100' FWL (Sec 3)

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

 IGRF2010
 12/31/2014
 7.48
 60.33
 48,390.48157898

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
 0.0
 268.61

Plan Survey Tool Program Date 5/1/2024

Depth From Depth To

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

1 0.0 23,906.9 Design #1 (BHL: 500' FSL & 100'

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,435.6	8.71	150.54	4,433.9	-28.8	16.3	2.00	2.00	0.00	150.54	
7,401.0	8.71	150.54	7,365.1	- 419.8	237.1	0.00	0.00	0.00	0.00	
7,836.6	0.00	0.00	7,799.0	- 448.6	253.4	2.00	- 2.00	0.00	180.00	KOP: 500' FSL & 10' I
8,751.9	91.49	270.26	8,372.0	- 445.9	-334.7	10.00	10.00	0.00	-89.74	
23,906.9	91.49	270.26	7,977.0	-376.9	-15,484.4	0.00	0.00	0.00	0.00	BHL: 500' FSL & 100'

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Dama Dorada 1/3 Fed Com #628H

Well: Sec 01, T20S, R27E

Wellbore: BHL: 500' FSL & 100' FWL (Sec 3)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Dama Dorada 1/3 Fed Com #628H WELL @ 3402.0usft (Original Well Elev) WELL @ 3402.0usft (Original Well Elev)

Grid

ned 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
	SL & 265' FEL (S	•							
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
1,100.0	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	1,300.0	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
			1,400.0						
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	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0 3,900.0	0.00	0.00 0.00	3,800.0 3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00			0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	2.00	150.54	4,100.0	-1.5	0.9	-0.8	2.00	2.00	0.00
4,200.0	4.00	150.54	4,199.8	-6.1	3.4	-3.3	2.00	2.00	0.00
4,300.0	6.00	150.54	4,299.5	-13.7	7.7	-7.4	2.00	2.00	0.00
4,400.0	8.00	150.54	4,398.7	-24.3	13.7	-13.1	2.00	2.00	0.00
4,435.6	8.71	150.54	4,433.9	-28.8	16.3	-15.5	2.00	2.00	0.00
4,500.0	8.71	150.54	4,497.6	-37.3	21.1	-13.3 -20.1	0.00	0.00	0.00
4,600.0	8.71	150.54	4,596.4	-50.5	28.5	-20.1 -27.3	0.00	0.00	0.00
4,700.0	8.71	150.54	4,695.3	-63.6	36.0	34.4	0.00	0.00	0.00
4,800.0	8.71	150.54	4,794.1	-76.8	43.4	-34.4 -41.5	0.00	0.00	0.00
4,900.0	8.71	150.54	4,893.0	-90.0	50.8	-48.6	0.00	0.00	0.00
5,000.0	8.71	150.54	4,991.8	-103.2	58.3	-55.8	0.00	0.00	0.00
5,100.0	8.71	150.54	5,090.7	-116.4	65.7	-62.9	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Dama Dorada 1/3 Fed Com #628H

Well: Sec 01, T20S, R27E

 Wellbore:
 BHL: 500' FSL & 100' FWL (Sec 3)

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Dama Dorada 1/3 Fed Com #628H WELL @ 3402.0usft (Original Well Elev) WELL @ 3402.0usft (Original Well Elev)

Grid

Planned Surve	еу									
Meas Dep (us	oth	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	8.71	150.54	5,189.5	-129.6	73.2	-70.0	0.00	0.00	0.00
5	,300.0	8.71	150.54	5,288.4	-142.8	80.6	-77.1	0.00	0.00	0.00
5	,400.0	8.71	150.54	5,387.2	-156.0	88.1	-84.3	0.00	0.00	0.00
	,500.0	8.71	150.54	5,486.0	-169.1	95.5	-91.4	0.00	0.00	0.00
	,600.0	8.71	150.54	5,584.9	-182.3	103.0	-98.5	0.00	0.00	0.00
	,700.0	8.71	150.54	5,683.7	-195.5	110.4	-105.7	0.00	0.00	0.00
5	0.008,	8.71	150.54	5,782.6	-208.7	117.9	-112.8	0.00	0.00	0.00
5	,900.0	8.71	150.54	5,881.4	-221.9	125.3	-119.9	0.00	0.00	0.00
	,000.0	8.71	150.54	5,980.3	-235.1	132.8	-127.0	0.00	0.00	0.00
	,100.0	8.71	150.54	6,079.1	-248.3	140.2	-134.2	0.00	0.00	0.00
	,200.0	8.71	150.54	6,178.0	-261.5	147.7	-141.3	0.00	0.00	0.00
	,300.0	8.71	150.54	6,276.8	-274.6	155.1	-148.4	0.00	0.00	0.00
6	,400.0	8.71	150.54	6,375.7	-287.8	162.6	-155.5	0.00	0.00	0.00
	,400.0 ,500.0	8.71 8.71	150.54	6,375.7 6,474.5	-287.8 -301.0	170.0	-155.5 -162.7	0.00	0.00	0.00
	,600.0	8.71	150.54	6,573.4	-301.0 -314.2	170.0	-162.7 -169.8	0.00	0.00	0.00
	,700.0	8.71	150.54	6,672.2	-314.2 -327.4	184.9	-176.9	0.00	0.00	0.00
	,800.0	8.71	150.54	6,771.0	-340.6	192.4	-184.0	0.00	0.00	0.00
	,900.0	8.71	150.54	6,869.9	-353.8	199.8	-191.2	0.00	0.00	0.00
	,000.0 ,100.0	8.71 8.71	150.54 150.54	6,968.7 7.067.6	-366.9 -380.1	207.3 214.7	-198.3 -205.4	0.00 0.00	0.00 0.00	0.00 0.00
	,100.0	8.71	150.54	7,067.6 7,166.4	-393.3	214.7	-205.4 -212.5	0.00	0.00	0.00
	,200.0	8.71	150.54	7,100.4	-393.3 -406.5	229.6	-212.5 -219.7	0.00	0.00	0.00
	,401.0	8.71	150.54	7,365.1	-419.8	237.1	-226.9	0.00	0.00	0.00
	,500.0	6.73	150.54	7,463.2	-431.4	243.7	-233.1	2.00	-2.00	0.00
	,600.0	4.73	150.54	7,562.7	-440.1	248.6	-237.8	2.00	-2.00	0.00
	,700.0	2.73	150.54	7,662.5	-445.8	251.8	-240.9	2.00	-2.00 -2.00	0.00
Ι,	,800.0	0.73	150.54	7,762.4	-448.4	253.3	-242.3	2.00		0.00
7	,836.6	0.00	0.00	7,799.0	-448.6	253.4	-242.4	2.00	-2.00	0.00
		SL & 10' FEL (Se	•							
	,850.0	1.34	270.26	7,812.4	-448.6	253.2	-242.3	10.00	10.00	0.00
	,900.0	6.34	270.26	7,862.3	-448.6	249.9	-238.9	10.00	10.00	0.00
	,950.0	11.34	270.26	7,911.7	-448.5	242.2	-231.2	10.00	10.00	0.00
8	,000.0	16.34	270.26	7,960.2	-448.5	230.3	-219.3	10.00	10.00	0.00
8	,050.0	21.34	270.26	8,007.5	-448.4	214.1	-203.1	10.00	10.00	0.00
8	,100.0	26.33	270.26	8,053.3	-448.3	193.9	-183.0	10.00	10.00	0.00
	,150.0	31.33	270.26	8,097.1	-448.2	169.8	-158.9	10.00	10.00	0.00
	,162.1	32.54	270.26	8,107.3	-448.2	163.4	-152.4	10.00	10.00	0.00
		L & 100' FEL (Se	•							
8	,200.0	36.33	270.26	8,138.6	-448.1	142.0	-131.0	10.00	10.00	0.00
	,250.0	41.33	270.26	8,177.5	-447.9	110.7	-99.7	10.00	10.00	0.00
8	,300.0	46.32	270.26	8,213.6	-447.8	76.0	-65.1	10.00	10.00	0.00
	,350.0	51.32	270.26	8,246.5	-447.6	38.4	-27.5	10.00	10.00	0.00
	,400.0	56.32	270.26	8,276.0	-447.4	-1.9	12.8	10.00	10.00	0.00
8	,450.0	61.32	270.26	8,301.9	-447.2	-44.7	55.6	10.00	10.00	0.00
8.	,500.0	66.32	270.26	8,323.9	-447.0	-89.5	100.4	10.00	10.00	0.00
	,550.0	71.31	270.26	8,342.0	-446.8	-136.2	147.0	10.00	10.00	0.00
	,600.0	76.31	270.26	8,355.9	-446.6	-184.2	195.0	10.00	10.00	0.00
8	,650.0	81.31	270.26	8,365.6	-446.4	-233.2	244.0	10.00	10.00	0.00
8	,700.0	86.31	270.26	8,371.0	-446.2	-282.9	293.7	10.00	10.00	0.00
8	,736.7	89.98	270.26	8,372.2	-446.0	-319.6	330.4	10.00	10.00	0.00
		& 583' FEL (Sed		-,0.2.2		0.5.5	300.1	. 5.55		5.55
	,751.9	91.49	270.26	8,372.0	-445.9	-334.7	345.5	10.00	10.00	0.00
	,800.0	91.49	270.26	8,370.7	-445.7	-382.8	393.6	0.00	0.00	0.00

Hobbs Database: Company:

Project:

Mewbourne Oil Company

Eddy County, New Mexico NAD 83 Dama Dorada 1/3 Fed Com #628H

Site: Well: Sec 01, T20S, R27E

Wellbore: BHL: 500' FSL & 100' FWL (Sec 3)

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Dama Dorada 1/3 Fed Com #628H WELL @ 3402.0usft (Original Well Elev) WELL @ 3402.0usft (Original Well Elev)

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)
8,900.0		270.26	8,368.1	-445.2	-482.8	493.5	0.00	0.00	0.00
9,000.0	91.49	270.26	8,365.5	-444.8	-582.8	593.4	0.00	0.00	0.00
9,100.0		270.26	8,362.9	-444.3	-682.7	693.3	0.00	0.00	0.00
9,200.0		270.26	8,360.3	-443.9	-782.7	793.3	0.00	0.00	0.00
9,300.0		270.26	8,357.7	-443.4	-882.7	893.2	0.00	0.00	0.00
9,400.0		270.26	8,355.1	-443.0	-982.6	993.1	0.00	0.00	0.00
9,500.0		270.26	8,352.5	-442.5	-1,082.6	1,093.0	0.00	0.00	0.00
9,600.0		270.26	8,349.9	-442.1	-1,182.6	1,193.0	0.00	0.00	0.00
9,700.0		270.26	8,347.3	-441.6	-1,282.5	1,292.9	0.00	0.00	0.00
9,800.0		270.26	8,344.7	-441.1	-1,382.5	1,392.8	0.00	0.00	0.00
9,900.0		270.26	8,342.1	-440.7 440.2	-1,482.5	1,492.7	0.00	0.00	0.00
10,000.0		270.26	8,339.5	-440.2	-1,582.4	1,592.7	0.00	0.00	0.00
10,100.0		270.26	8,336.9	-439.8	-1,682.4	1,692.6	0.00	0.00	0.00
10,200.0		270.26	8,334.3	-439.3	-1,782.3	1,792.5	0.00	0.00	0.00
10,300.0		270.26	8,331.6	-438.9 438.4	-1,882.3	1,892.4	0.00	0.00	0.00
10,400.0 10,500.0		270.26 270.26	8,329.0 8,326.4	-438.4 -438.0	-1,982.3 -2,082.2	1,992.4 2,092.3	0.00 0.00	0.00 0.00	0.00 0.00
10,600.0		270.26	8,323.8	-437.5	-2,182.2	2,192.2	0.00	0.00	0.00
10,700.0		270.26	8,321.2	-437.0	-2,282.2	2,292.1	0.00	0.00	0.00
10,793.3		270.26	8,318.8	-436.6	-2,375.4	2,385.3	0.00	0.00	0.00
	FSL & 2630' FWL								
10,800.0		270.26	8,318.6	-436.6	-2,382.1	2,392.1	0.00	0.00	0.00
10,900.0	91.49	270.26	8,316.0	-436.1	-2,482.1	2,492.0	0.00	0.00	0.00
11,000.0		270.26	8,313.4	-435.7	-2,582.1	2,591.9	0.00	0.00	0.00
11,100.0		270.26	8,310.8	-435.2	-2,682.0	2,691.8	0.00	0.00	0.00
11,200.0		270.26	8,308.2	-434.8	-2,782.0	2,791.8	0.00	0.00	0.00
11,300.0		270.26	8,305.6	-434.3 433.0	-2,882.0	2,891.7	0.00	0.00	0.00
11,400.0	91.49	270.26	8,303.0	-433.9	-2,981.9	2,991.6	0.00	0.00	0.00
11,500.0		270.26	8,300.4	-433.4	-3,081.9	3,091.5	0.00	0.00	0.00
11,600.0		270.26	8,297.8	-432.9	-3,181.9	3,191.4	0.00	0.00	0.00
11,700.0		270.26	8,295.2	-432.5	-3,281.8	3,291.4	0.00	0.00	0.00
11,800.0 11,900.0		270.26 270.26	8,292.6 8,289.9	-432.0 -431.6	-3,381.8 -3,481.8	3,391.3 3,491.2	0.00 0.00	0.00 0.00	0.00 0.00
12,000.0		270.26	8,287.3	-431.1	-3,581.7	3,591.1	0.00	0.00	0.00
12,100.0		270.26	8,284.7	-430.7	-3,681.7	3,691.1	0.00	0.00	0.00
12,200.0		270.26	8,282.1	-430.2	-3,781.6	3,791.0	0.00	0.00	0.00
12,300.0 12,400.0		270.26 270.26	8,279.5 8,276.9	-429.8 -429.3	-3,881.6 -3,981.6	3,890.9 3,990.8	0.00 0.00	0.00 0.00	0.00 0.00
•			•		,	•			
12,500.0		270.26	8,274.3	-428.9	-4,081.5	4,090.8	0.00	0.00	0.00
12,600.0		270.26	8,271.7	-428.4 427.0	-4,181.5	4,190.7	0.00	0.00	0.00
12,700.0 12,800.0		270.26 270.26	8,269.1 8,266.5	-427.9 -427.5	-4,281.5 -4,381.4	4,290.6 4,390.5	0.00 0.00	0.00 0.00	0.00 0.00
12,800.0		270.26 270.26	8,263.9	-427.5 -427.0	-4,361.4 -4,481.4	4,390.5 4,490.5	0.00	0.00	0.00
13,000.0		270.26	8,261.3	-426.6 426.4	-4,581.4 4,684.3	4,590.4	0.00	0.00	0.00
13,100.0 13,200.0		270.26 270.26	8,258.7 8,256.1	-426.1	-4,681.3	4,690.3 4,790.2	0.00	0.00 0.00	0.00 0.00
13,200.0		270.26 270.26	8,253.5	-425.7 -425.2	-4,781.3 -4,881.3	4,790.2 4,890.2	0.00 0.00	0.00	0.00
13,400.0		270.26	8,250.9	-425.2 -424.8	-4,001.3 -4,981.2	4,890.2	0.00	0.00	0.00
13,432.7		270.26	8,250.0	-424.6	-5,013.9	5,022.7	0.00	0.00	0.00
	FSL & 0' FEL (Se	•	0.040.6	404.0	E 004.6	F 000 C	2.05	2.22	0.00
13,500.0		270.26	8,248.2	-424.3	-5,081.2 5,484.2	5,090.0	0.00	0.00	0.00
13,600.0 13,700.0		270.26 270.26	8,245.6 8,243.0	-423.8 -423.4	-5,181.2 -5,281.1	5,189.9 5,289.9	0.00 0.00	0.00 0.00	0.00 0.00
13,700.0		270.26 270.26	8,243.0 8,240.4	-423.4 -422.9	-5,281.1 -5,381.1	5,289.9 5,389.8	0.00	0.00	0.00
13,800.0	91.49	2/0.20	0,240.4	-422.9	-5,381.1	ე, <u>კ</u> გყ.გ	0.00	0.00	0.00

Database: Ho Company: Me

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

 Site:
 Dama Dorada 1/3 Fed Com #628H

 Well:
 Sec 01, T20S, R27E

Well: Wellbore:

Project:

BHL: 500' FSL & 100' FWL (Sec 3)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Site Dama Dorada 1/3 Fed Com #628H WELL @ 3402.0usft (Original Well Elev) WELL @ 3402.0usft (Original Well Elev)

Grid

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,900.0	91.49	270.26	8,237.8	-422.5	-5,481.1	5,489.7	0.00	0.00	0.00
14,000.0	91.49	270.26	8,235.2	-422.0	-5,581.0	5,589.6	0.00	0.00	0.00
14,100.0	91.49	270.26	8,232.6	-421.6	-5,681.0	5,689.6	0.00	0.00	0.00
14,200.0	91.49	270.26	8,230.0	-421.1	-5,780.9	5,789.5	0.00	0.00	0.00
14,300.0	91.49	270.26	8,227.4	-420.7	-5,880.9	5,889.4	0.00	0.00	0.00
14,400.0	91.49	270.26	8,224.8	-420.2	-5,980.9	5,989.3	0.00	0.00	0.00
14,500.0	91.49	270.26	8,222.2	-419.7	-6,080.8	6,089.3	0.00	0.00	0.00
14,600.0	91.49	270.26	8,219.6	-419.3	-6,180.8	6,189.2	0.00	0.00	0.00
14,700.0	91.49	270.26	8,217.0	-418.8	-6,280.8	6,289.1	0.00	0.00	0.00
14,800.0	91.49	270.26	8,214.4	-418.4	-6,380.7	6,389.0	0.00	0.00	0.00
14,900.0	91.49	270.26	8,211.8	-417.9	-6,480.7	6,489.0	0.00	0.00	0.00
15,000.0	91.49	270.26	8,209.1	-417.5	-6,580.7	6,588.9	0.00	0.00	0.00
15,100.0	91.49	270.26	8,206.5	-417.0	-6,680.6	6,688.8	0.00	0.00	0.00
15,200.0	91.49	270.26	8,203.9	-416.6	-6,780.6	6,788.7	0.00	0.00	0.00
15,300.0	91.49	270.26	8,201.3	-416.1	-6,880.6	6,888.6	0.00	0.00	0.00
15,400.0	91.49	270.26	8,198.7	-415.6	-6,980.5	6,988.6	0.00	0.00	0.00
15,500.0	91.49	270.26	8,196.1	-415.2	-7,080.5	7,088.5	0.00	0.00	0.00
15,600.0	91.49	270.26	8,193.5	-414.7	-7,180.5	7,188.4	0.00	0.00	0.00
15,700.0	91.49	270.26	8,190.9	-414.3	-7,280.4	7,288.3	0.00	0.00	0.00
15,800.0	91.49	270.26	8,188.3	-413.8	-7,380.4	7,388.3	0.00	0.00	0.00
15,900.0	91.49	270.26	8,185.7	-413.4	-7,480.4	7,488.2	0.00	0.00	0.00
16,000.0	91.49	270.26	8,183.1	-412.9	-7,580.3	7,588.1	0.00	0.00	0.00
16,100.0	91.49	270.26	8,180.5	-412.5	-7,680.3	7,688.0	0.00	0.00	0.00
16,200.0	91.49	270.26	8,177.9	-412.0	-7,780.2	7,788.0	0.00	0.00	0.00
16,300.0	91.49	270.26	8,175.3	-411.5	-7,880.2	7,887.9	0.00	0.00	0.00
16,400.0	91.49	270.26	8,172.7	-411.1	-7,980.2	7,987.8	0.00	0.00	0.00
16,500.0	91.49	270.26	8,170.1	-410.6	-8,080.1	8,087.7	0.00	0.00	0.00
16,600.0	91.49	270.26	8,167.4	-410.2	-8,180.1	8,187.7	0.00	0.00	0.00
16,700.0	91.49	270.26	8,164.8	-409.7	-8,280.1	8,287.6	0.00	0.00	0.00
16,800.0	91.49	270.26	8,162.2	-409.3	-8,380.0	8,387.5	0.00	0.00	0.00
16,900.0	91.49	270.26	8,159.6	-408.8	-8,480.0	8,487.4	0.00	0.00	0.00
17,000.0	91.49	270.26	8,157.0	-408.4	-8,580.0	8,587.4	0.00	0.00	0.00
17,100.0	91.49	270.26	8,154.4	-407.9	-8,679.9	8,687.3	0.00	0.00	0.00
17,200.0	91.49	270.26	8,151.8	-407.4	-8,779.9	8,787.2	0.00	0.00	0.00
17,300.0	91.49	270.26	8,149.2	-407.0	-8,879.9	8,887.1	0.00	0.00	0.00
17,400.0	91.49	270.26	8,146.6	-406.5	-8,979.8	8,987.1	0.00	0.00	0.00
17,500.0	91.49	270.26	8,144.0	-406.5 -406.1	-0,979.6 -9,079.8	9,087.0	0.00	0.00	0.00
17,600.0	91.49	270.26	8,144.0 8,141.4	-405.1 -405.6	-9,079.8 -9,179.8	9,087.0	0.00	0.00	0.00
17,700.0	91.49	270.26	8.138.8	-405.2	-9,179.6 -9.279.7	9,186.8	0.00	0.00	0.00
17,700.0	91.49	270.26	8,136.2	-403.2 -404.7	-9,279.7 -9,379.7	9,286.8	0.00	0.00	0.00
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17,900.0	91.49	270.26	8,133.6	-404.3	-9,479.7	9,486.7	0.00	0.00	0.00
18,000.0	91.49	270.26	8,131.0	-403.8	-9,579.6	9,586.6	0.00	0.00	0.00
18,100.0	91.49	270.26	8,128.3	-403.3	-9,679.6	9,686.5	0.00	0.00	0.00
18,200.0	91.49	270.26	8,125.7	-402.9	-9,779.5	9,786.5	0.00	0.00	0.00
18,300.0	91.49	270.26	8,123.1	-402.4	-9,879.5	9,886.4	0.00	0.00	0.00
18,400.0	91.49	270.26	8,120.5	-402.0	-9,979.5	9,986.3	0.00	0.00	0.00
18,500.0	91.49	270.26	8,117.9	-401.5	-10,079.4	10,086.2	0.00	0.00	0.00
18,600.0	91.49	270.26	8,115.3	-401.1	-10,179.4	10,186.2	0.00	0.00	0.00
18,700.0	91.49	270.26	8,112.7	-400.6	-10,279.4	10,286.1	0.00	0.00	0.00
18,716.5	91.49	270.26	8,112.3	-400.5	-10,295.9	10,302.6	0.00	0.00	0.00
PPP4: 500'	FSL & 0' FEL (Se	c 3)							
18,800.0	91.49	270.26	8,110.1	-400.2	-10,379.3	10,386.0	0.00	0.00	0.00
18,900.0	91.49	270.26	8,110.1	-399.7	-10,379.3	10,386.0	0.00	0.00	0.00

Database: H Company: M

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Site: Dama Dorada 1/3 Fed Com #628H

Well: Wellbore:

Project:

Sec 01, T20S, R27E

BHL: 500' FSL & 100' FWL (Sec 3)

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Dama Dorada 1/3 Fed Com #628H WELL @ 3402.0usft (Original Well Elev) WELL @ 3402.0usft (Original Well Elev)

Grid

Measured			Vertical			Vertical	Doglas	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Dogleg Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
19,000.0	91.49	270.26	8,104.9	-399.2	-10,579.3	10,585.8	0.00	0.00	0.00
19,100.0	91.49	270.26	8,102.3	-398.8	-10,679.2	10,685.8	0.00	0.00	0.00
19,200.0	91.49	270.26	8,099.7	-398.3	-10,779.2	10,785.7	0.00	0.00	0.00
19,300.0	91.49	270.26	8,097.1	-397.9	-10,879.2	10,885.6	0.00	0.00	0.00
19,400.0	91.49	270.26	8,094.5	-397.4	-10,979.1	10,985.5	0.00	0.00	0.00
19,500.0	91.49	270.26	8,091.9	-397.0	-11,079.1	11,085.5	0.00	0.00	0.00
19,600.0	91.49	270.26	8,089.3	-396.5	-11,179.1	11,185.4	0.00	0.00	0.00
19,700.0	91.49	270.26	8,086.6	-396.1	-11,279.0	11,285.3	0.00	0.00	0.00
•									
19,800.0	91.49	270.26	8,084.0	-395.6	-11,379.0	11,385.2	0.00	0.00	0.00
19,900.0	91.49	270.26	8,081.4	-395.1	-11,479.0	11,485.2	0.00	0.00	0.00
20,000.0	91.49	270.26	8,078.8	-394.7	-11,578.9	11,585.1	0.00	0.00	0.00
20,100.0	91.49	270.26	8,076.2	-394.2	-11,678.9	11,685.0	0.00	0.00	0.00
20,200.0	91.49	270.26	8,073.6	-393.8	-11,778.8	11,784.9	0.00	0.00	0.00
20,300.0	91.49	270.26	8,071.0	-393.3	-11,878.8	11,884.9	0.00	0.00	0.00
20,400.0	91.49	270.26	8,068.4	-392.9	-11,978.8	11,984.8	0.00	0.00	0.00
20,500.0	91.49	270.26	8,065.8	-392.4	-12,078.7	12,084.7	0.00	0.00	0.00
20,600.0	91.49	270.26	8,063.2	-392.0	-12,178.7	12,184.6	0.00	0.00	0.00
20,700.0	91.49	270.26	8,060.6	-391.5	-12,278.7	12,284.6	0.00	0.00	0.00
20,800.0	91.49	270.26	8,058.0	-391.0	-12.378.6	12.384.5	0.00	0.00	0.00
20,900.0	91.49	270.26	8,055.4	-390.6	-12,478.6	12,484.4	0.00	0.00	0.00
21,000.0	91.49	270.26	8,052.8	-390.1	-12,578.6	12,584.3	0.00	0.00	0.00
21,100.0	91.49	270.26	8,050.2	-389.7	-12,678.5	12.684.3	0.00	0.00	0.00
21,200.0	91.49	270.26	8,047.6	-389.2	-12,778.5	12,784.2	0.00	0.00	0.00
21,300.0	91.49	270.26	8,044.9	-388.8	-12,878.5	12,884.1	0.00	0.00	0.00
21,400.0	91.49	270.26	8,042.3	-388.3	-12,978.4	12,984.0	0.00	0.00	0.00
21,500.0	91.49	270.26	8,039.7	-387.9	-13,078.4	13,084.0	0.00	0.00	0.00
21,600.0	91.49	270.26	8,037.1	-387.4	-13,178.4	13,183.9	0.00	0.00	0.00
21,700.0	91.49	270.26	8,034.5	-387.0	-13,278.3	13,283.8	0.00	0.00	0.00
21,800.0	91.49	270.26	8,031.9	-386.5	-13,378.3	13,383.7	0.00	0.00	0.00
21,900.0	91.49	270.26	8,029.3	-386.0	-13,478.3	13,483.7	0.00	0.00	0.00
22,000.0	91.49	270.26	8,026.7	-385.6	-13,578.2	13,583.6	0.00	0.00	0.00
22,100.0	91.49	270.26	8,024.1	-385.1	-13,678.2	13,683.5	0.00	0.00	0.00
22,200.0	91.49	270.26	8,021.5	-384.7	-13,778.1	13,783.4	0.00	0.00	0.00
22,300.0	91.49		8,018.9	-384.2		13.883.4	0.00	0.00	0.00
22,300.0	91.49	270.26 270.26	8,018.9	-384.2 -383.8	-13,878.1 -13,978.1	13,883.4	0.00	0.00	0.00
22,500.0	91.49	270.26 270.26	8,013.7	-303.0 -383.3	-13,976.1 -14,078.0	14,083.2	0.00	0.00	0.00
22,600.0	91.49	270.26	8,011.1	-382.9	-14,078.0 -14,178.0	14,083.2	0.00	0.00	0.00
22,700.0	91.49	270.26	8,008.5	-382.4	-14,178.0	14,183.1	0.00	0.00	0.00
22,800.0	91.49	270.26	8,005.8	-381.9	-14,377.9	14,383.0	0.00	0.00	0.00
22,900.0 23,000.0	91.49	270.26 270.26	8,003.2 8,000.6	-381.5	-14,477.9	14,482.9 14,582.8	0.00	0.00	0.00
23,000.0	91.49		8,000.6 7,998.0	-381.0 380.6	-14,577.9	14,582.8 14,682.7	0.00	0.00	0.00
23,100.0	91.49	270.26 270.26	7,998.0 7,995.4	-380.6 -380.1	-14,677.8 -14,777.8	14,682.7	0.00 0.00	0.00 0.00	0.00 0.00
	91.49		,						
23,300.0	91.49	270.26	7,992.8	-379.7	-14,877.8	14,882.6	0.00	0.00	0.00
23,400.0	91.49	270.26	7,990.2	-379.2	-14,977.7	14,982.5	0.00	0.00	0.00
23,500.0	91.49	270.26	7,987.6	-378.8	-15,077.7	15,082.4	0.00	0.00	0.00
23,600.0	91.49	270.26	7,985.0	-378.3	-15,177.7	15,182.4	0.00	0.00	0.00
23,700.0	91.49	270.26	7,982.4	-377.8	-15,277.6	15,282.3	0.00	0.00	0.00
23,800.0	91.49	270.26	7,979.8	-377.4	-15,377.6	15,382.2	0.00	0.00	0.00
23,906.9	91.49	270.26	7,977.0	-376.9	-15,484.4	15,489.0	0.00	0.00	0.00

Database: Hobbs

Company: Mewbourne Oil Company

Project: Eddy County, New Mexico NAD 83
Site: Dama Dorada 1/3 Fed Com #628H

Well: Sec 01, T20S, R27E

Wellbore: BHL: 500' FSL & 100' FWL (Sec 3)

Design: Design #1

Local Co-ordinate Reference:

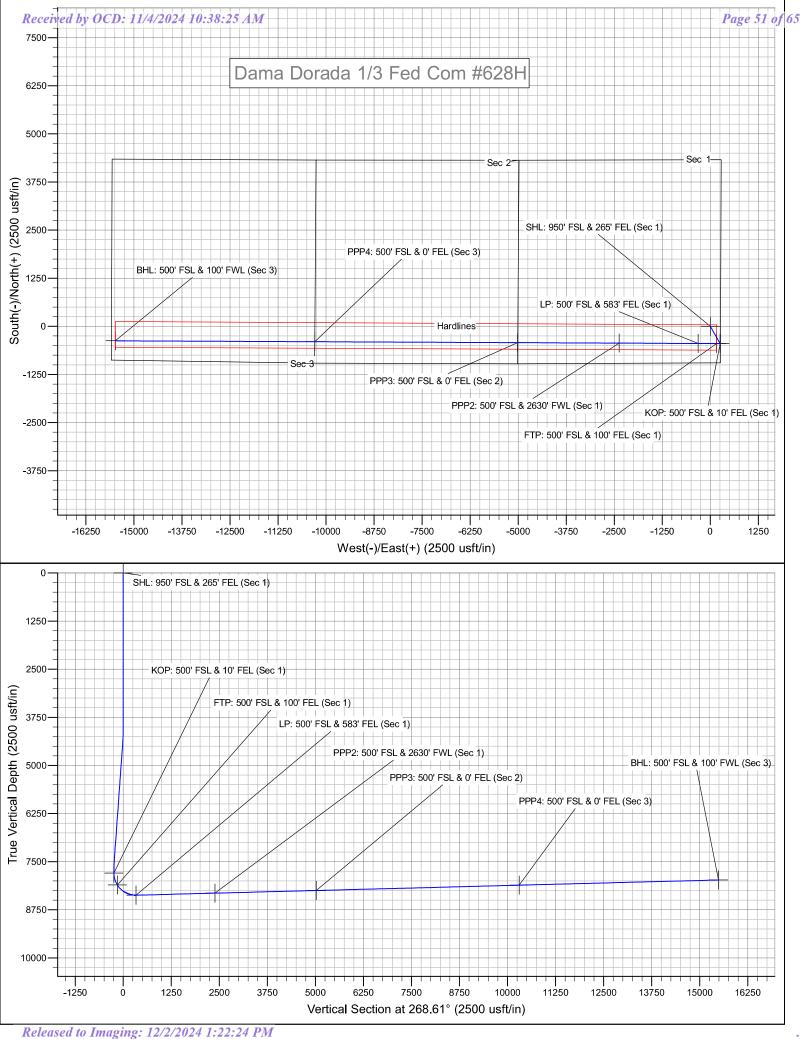
TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Dama Dorada 1/3 Fed Com #628H WELL @ 3402.0usft (Original Well Elev) WELL @ 3402.0usft (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: 950' FSL & 265' FE - plan hits target cen - Point	0.00 ter	0.00	0.0	0.0	0.0	581,254.90	574,194.80	32.5978771	-104.2266398
KOP: 500' FSL & 10' FEI - plan hits target cen - Point	0.00 ter	0.00	7,799.0	-448.6	253.4	580,806.30	574,448.20	32.5966433	-104.2258185
BHL: 500' FSL & 100' FV - plan hits target cen - Point	0.00 ter	0.00	7,977.0	-376.9	-15,484.4	580,878.00	558,710.40	32.5968737	-104.2769210
FTP: 500' FSL & 100' FE - plan hits target cen - Point	0.00 ter	0.00	8,107.3	-448.2	163.4	580,806.71	574,358.20	32.5966447	-104.2261107
PPP4: 500' FSL & 0' FEI - plan hits target cen - Point	0.00 ter	0.00	8,112.3	- 400.5	-10,295.9	580,854.36	563,898.90	32.5968001	-104.2600733
PPP3: 500' FSL & 0' FEI - plan hits target cen - Point	0.00 ter	0.00	8,250.0	-424.6	-5,013.9	580,830.30	569,180.90	32.5967228	-104.2429220
PPP2: 500' FSL & 2630' - plan hits target cen - Point	0.00 ter	0.00	8,318.8	-436.6	-2,375.4	580,818.28	571,819.40	32.5966833	-104.2343545
LP: 500' FSL & 583' FEL - plan hits target cen - Point	0.00 ter	0.00	8,372.2	-446.0	-319.6	580,808.91	573,875.20	32.5966521	-104.2276791



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY

WELL NAME & NO.: DAMA DORADA 1/3 FED COM 628H

APD ID: 10400098535

LOCATION: Section 1, T20S, R27E. NMP.

COUNTY: Eddy County, New Mexico

COA

H ₂ S	0	No	• Yes		
Potash /	None	O Secretary	O R-111-Q	☐ Open Annulus	
WIPP				□ WIPP	
Cave / Karst	O Low	• Medium	O High	Critical	
Wellhead	Conventional	Multibowl	O Both	Diverter	
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool	
Special Req	☐ Capitan Reef	☐ Water Disposal	✓ COM	☐ Unit	
Waste Prev.	Self-Certification	O Waste Min. Plan	• APD Submitted prior 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 (H₂S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING DESIGN

Primary Casing Program

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or **500** psi compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 2,850 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.

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

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The $7 \times 5-1/2$ inch tapered production casing shall be set at approximately 23,907 ft. (8,372 ft. TVD). Hole and casing size change at approximately 7,837 ft. The minimum required fill of cement behind the tapered production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Alternate Casing Program

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> hours or 500 psi compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set in a competent bed at approximately 2,850 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.

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

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- **3.** The **7** x **5-1/2** inch tapered production casing shall be set at approximately **23,907 ft.** (8,372 ft. TVD). Hole and casing size change at approximately 8,737 ft. The minimum required fill of cement behind the tapered production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Note: The production casing must be kept fluid-filled to meet the BLM's minimum collapse design requirements.

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 cementing offline at **Eddy County:** 575-361-2822.

C. PRESSURE CONTROL

- 1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a **multi-bowl wellhead** assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi. The BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172 and API Standard 53.**

Approval Date: 11/01/2024

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in the title 43 CFR 3172.6(b)(9) must be followed.

BOPE Break Testing Variance (Approved)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

- BOPE Break Testing is ONLY permitted for 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 part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record),

or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

- which the draw works are located, this does not include the doghouse or stairway area.
- **3.** For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- **4.** Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- **5.** No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- **6.** On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to

- control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- **8.** Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- **3.** 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- **4.** If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- **5.** The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 10/17/2024

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

- 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. <u>Protective Equipment for Essential Personnel</u>

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. <u>Visual Warning Systems</u>

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

7. Well Testing

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

8. Emergency Phone Numbers

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

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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: DAMA DORADA 1/3 FED COM Well Number: 628H

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Enclosed trash trailer

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

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

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: DAMA DORADA 1/3 FED COM Well Number: 628H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

DAMA_DORADA_1_3_FED_COM__628H_WellSiteLayout_20240516112202.pdf

Comments: NONE

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring

Drainage/Erosion control construction: None
Drainage/Erosion control reclamation: None

Well pad proposed disturbance Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 5.9 1.39 (acres): 4.51

Road proposed disturbance (acres): Road interim reclamation (acres): 0 Road long term disturbance (acres): 0

3.5

Powerline proposed disturbance Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0 (acres): 0

Pipeline proposed disturbance Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 0

Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0 Other long term disturbance (acres): 0

Total proposed disturbance: 9.4 Total interim reclamation: 1.39 Total long term disturbance: 4.51

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

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

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 398793

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	398793
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/4/2024
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/4/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/2/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/2/2024
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.	12/2/2024
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.	12/2/2024