

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Repor

Well Name: THUNDERCLOUD 29/30 Well Location: T18S / R31E / SEC 25 /

B2HE FED COM

NENE /

County or Parish/State:

Well Number: 1H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM90161 **Unit or CA Name:** **Unit or CA Number:**

US Well Number: 3001554399 Well Status: Approved Application for

Permit to Drill

Operator: MEWBOURNE OIL

COMPANY

Notice of Intent

Sundry ID: 2763386

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 11/28/2023 **Time Sundry Submitted: 03:06**

Date proposed operation will begin: 12/01/2023

Procedure Description: Mewbourne Oil Company request that the following change be made to the Thundercloud 29/30 B2HE Fed Com #1H (APD ID #10400082981): 1. Change well name f/ Thundercloud 29/30 B2HE Fed Com #1H (APD ID #10400082981) to Thundercloud 30/29 Fed Com #523H. 2. Attached Plat with new well name. 3. Change Surface setting depth f/ 1160' to 1000' & Intermediate setting depth f/ 4710' to 2380'. 4. Attached Csg assumptions for updated setting depths. 5. Request a variance to perform break testing and offline cementing per attachments. 6. Attached Break Testing and Offline Cementing variance.

NOI Attachments

Procedure Description

Thundercloud_30_29_Fed_Com_523H_C102_20231128150559.pdf

Mewbourne_Offline_Cementing_Variance_20231128150559.pdf

Mewbourne_Break_Testing_Variance_20231128150559.pdf

Thundercloud_30_29_Fed_Com_523H_CsgAssumptions_20231128150559.pdf

Thundercloud_29_30_B2HE_Fed_Com_1H_Name___Csg_Sundry_20231128150559.pdf

Well Name: THUNDER CLOUD 29/30

B2HE FED COM

Well Location: T18S / R31E / SEC 25 /

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Well Number: 1H

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Page 2 of

Lease Number: NMNM90161

Unit or CA Name:

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Operator: MEWBOURNE OIL

COMPANY

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RYAN MCDANIEL Signed on: NOV 28, 2023 03:06 PM

Name: MEWBOURNE OIL COMPANY

Title: Engineer

Street Address: 4801 BUSINESS PARK BLVD

City: HOBBS State: NM

Phone: (575) 393-5905

Email address: RYANMCDANIEL@MEWBOURNE.COM

Field

Representative Name:

Street Address:

Citv:

State:

Zip:

Phone:

Email address:

Page 2 of 2

Gas Well

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

Form 3160-5 (June 2019)

1. Type of Well

3a. Address

2. Name of Operator

Oil Well

TYPE OF SUBMISSION

Notice of Intent

Subsequent Report

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MAN

AGEMENT	5. Lease Serial
---------	-----------------

Reclamation

Recomplete

Temporarily Abandon

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

Alter Casing

Casing Repair

Change Plans

	UNITED STATE ARTMENT OF THE I EAU OF LAND MAN	NTERIOR	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.				
this f		ORTS ON WELLS to drill or to re-enter an PD) for such proposals.	6. If Indian, Allottee or Tribe Name				
BMIT IN 1	TRIPLICATE - Other instr	uctions on page 2	7. If Unit of CA/Agreement, Name and/or No.				
Gas W	/ell Other		8. Well Name and No.				
			9. API Well No.				
		3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area				
Sec., T.,R	.,M., or Survey Description,		11. Country or Parish, State				
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICATE NATURE OF NO	OTICE, REPORT OR OTHER DATA				
N		TYPE OF A	ACTION				
	Acidize	Deepen Pr	roduction (Start/Resume) Water Shut-Off				

Well Integrity

Other

Final Abandonment Notice Convert to Injection Plug Back Water Disposal 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Hydraulic Fracturing

New Construction

Plug and Abandon

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Title

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by Petroleum Engineer 12/04/2023 Title Date Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease **CFO** Office which would entitle the applicant to conduct operations thereon.

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)

Signature

Released to Imaging: 7/11/2025 9:58:27 AM

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NENE / 1055 FNL / 135 FEL / TWSP: 18S / RANGE: 31E / SECTION: 25 / LAT: 32.7229466 / LONG: -103.8148195 (TVD: 0 feet, MD: 0 feet)
PPP: SWNW / 1900 FNL / 100 FWL / TWSP: 18S / RANGE: 32E / SECTION: 30 / LAT: 32.720625 / LONG: -103.814052 (TVD: 9075 feet, MD: 9461 feet)
PPP: SWNW / 1900 FNL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 29 / LAT: 32.720594 / LONG: -103.797092 (TVD: 9228 feet, MD: 14679 feet)
BHL: SENE / 1900 FNL / 100 FEL / TWSP: 18S / RANGE: 32E / SECTION: 29 / LAT: 32.720561 / LONG: -103.780212 (TVD: 9381 feet, MD: 19873 feet)



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 III

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

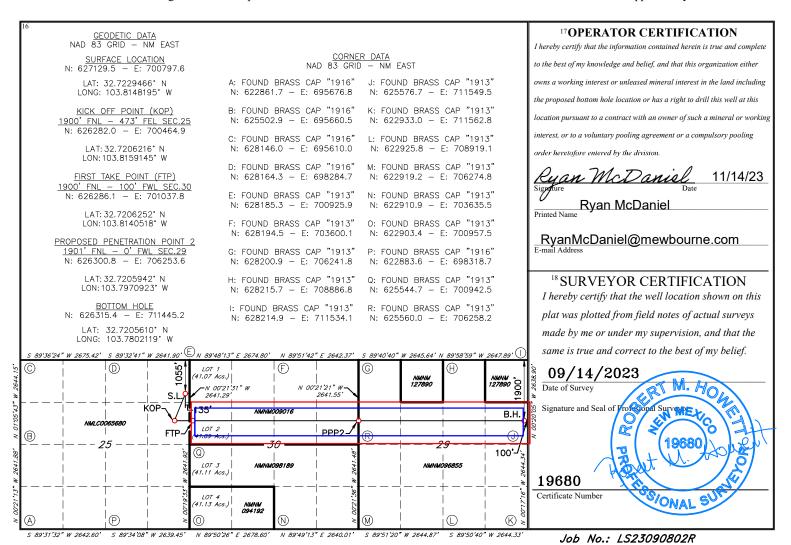
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	¹ API Number						³ Pool Na	ime				
				41450		LUSK	; BONE SP	RING,	NORTI	H		
⁴ Property Co	de		-		5 Property 1	Name			6	Well Number		
	THUNDERCLOUD 30/29 FED COM											
7 OGRID 1	7 OGRID NO. 8 Operator Name									⁹ Elevation		
14744	Į.			MEWE	BOURNE O	IL COMPANY			3694'			
•					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				
A	25	18S	31E		1055	NORTH	135	EAS	ST	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			
H	29	18S	32E		1900	NORTH	100	EAST	LEA			
12 Dedicated Acres	13 Joint	or Infill	4 Consolidation	Code 15	Order No.				•			
321.09												

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.





Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

- 1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static.
- 4. Make up 13 %" wellhead or wellhead landing ring assembly and land on 20" conductor.
- 5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint.
- 8. Walk rig to next well on pad with cement crew standing by to rig up.
- 9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
- 10. Make up cement head on top of offline cement tool with forklift.
- 11. Commence cement operations.
- 12. If cement circulates, confirm well is static and proceed to step 16.
- 13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 15. Confirm well is static.
- 16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
- 17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus



After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

- 1. Run 20" surface casing as per normal operations (TPGS and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
- 4. Confirm well is static.
- 5. Back out landing joint and pull to rig floor. Lay down landing joint.
- 6. Make up cement head.
- 7. Walk rig to next well on pad with cement crew standing by to rig up.
- 8. Commence cement operations.
- 9. If cement circulates, confirm well is static and proceed to step 13.
- 10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
- 12. Confirm well is static.
- 13. Once cement job is complete, remove cement head and install cap.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

- 1. Run casing as per normal operations (float shoe and float collar).
- 2. Perform negative pressure test to confirm integrity of float equipment while running casing.
- 3. Confirm well is static (if running SBM).
- 4. Land casing.
- 5. Fill pipe, circulate casing capacity and confirm floats are still holding.
- 6. Confirm well is static.
- 7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
- 8. Nipple down BOP.
- 9. Walk rig to next well on pad with cement crew standing by to rig up.
- 10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 8).
- 11. Make up cement head on top of offline cement tool.
- 12. Commence cement operations.
- 13. If cement circulates, confirm well is static and proceed to step 16.
- 14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
- 15. Pump remedial cement job if required.
- 16. Confirm well is static.
- 17. Remove cement head and offline cementing tool.
- 18. Install wellhead capping flange and 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 tested to 5000 psi and cement head
- Capping flange after cementing



Risks:

- Pressure build up in annulus before cementing
 - o Contact BLM if a well control event occurs.
 - o Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

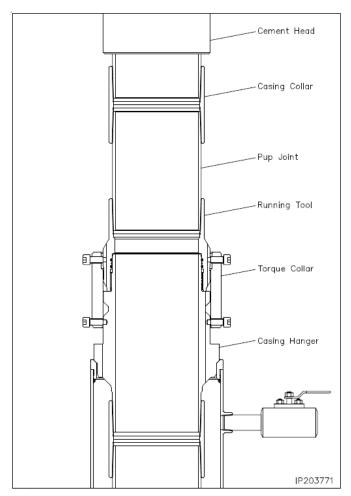


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



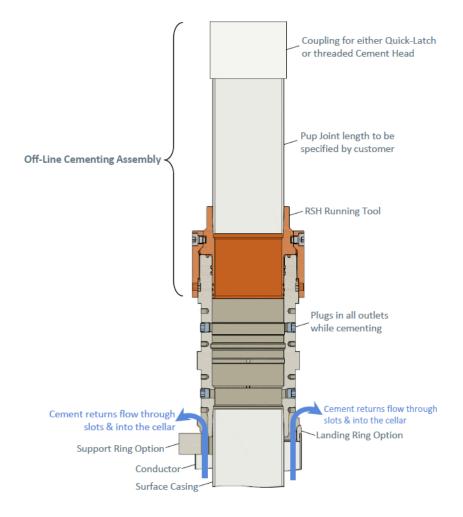


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.



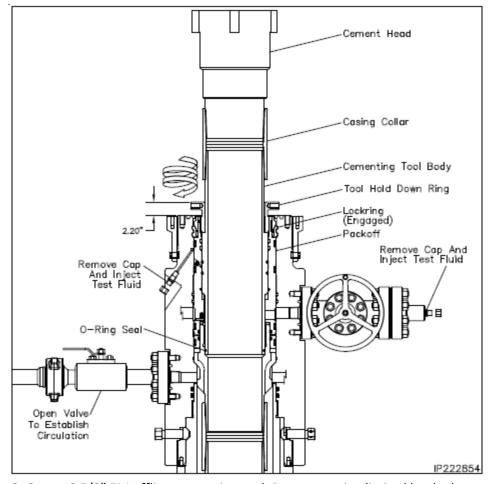


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



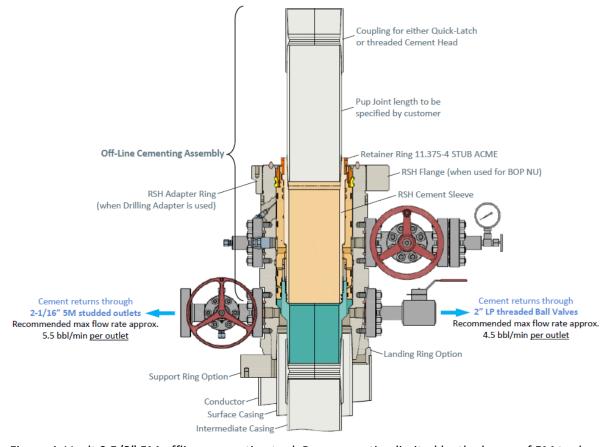


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.



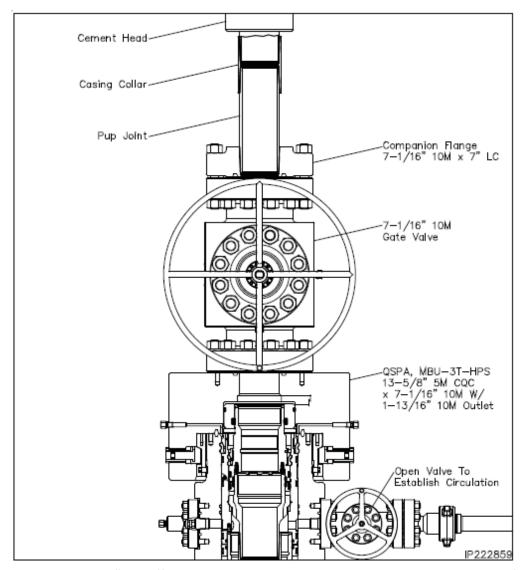


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



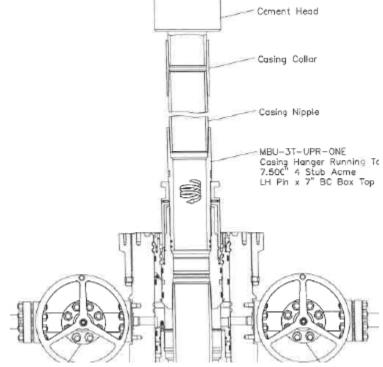


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



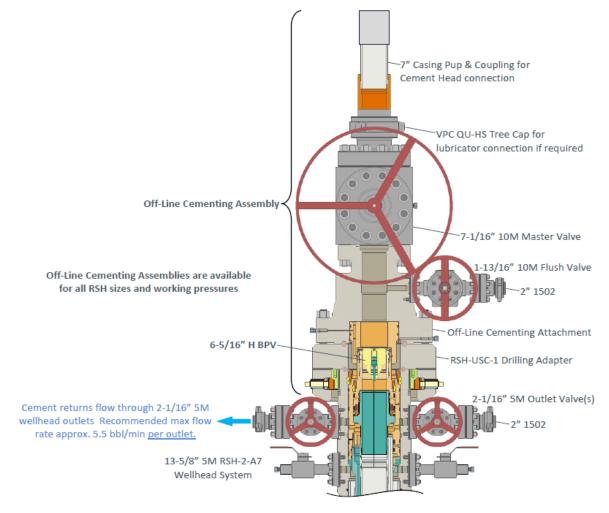


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



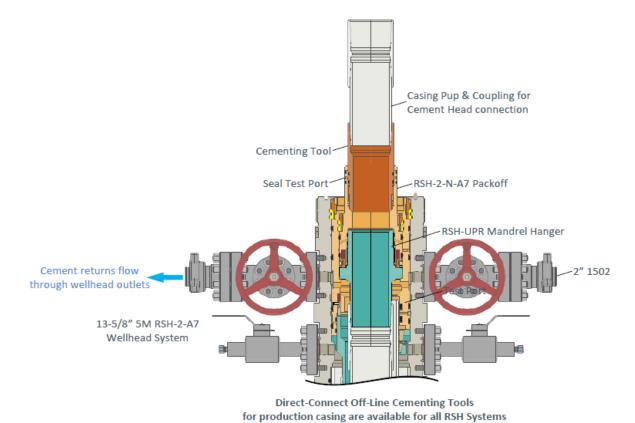


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.



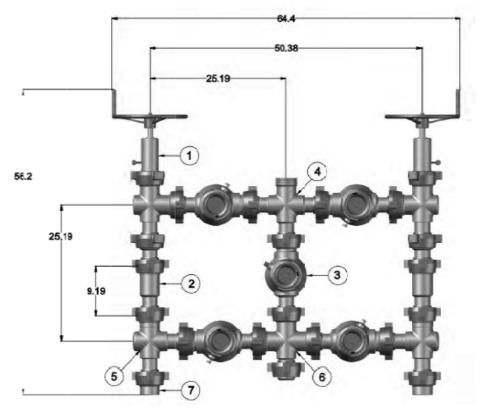


Figure 9. Five valve 15k choke manifold.

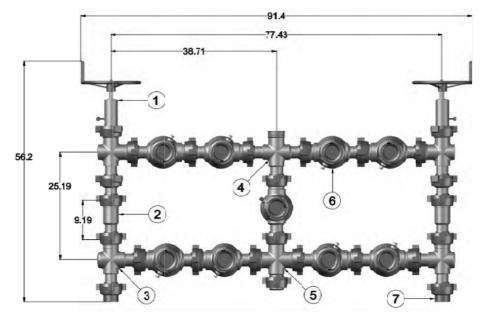


Figure 10. Nine valve 15k choke manifold.



Mewbourne Oil Co.

BOP Break Testing Variance

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

Procedures

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



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

Barriers

Before Nipple Down:

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

After Nipple Down:

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

Summary

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

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

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



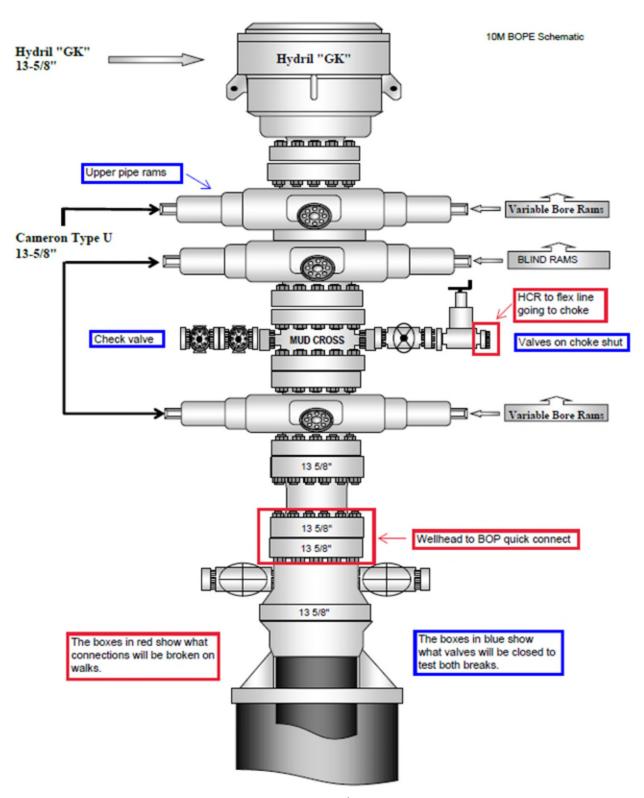


Figure 1. BOP diagram



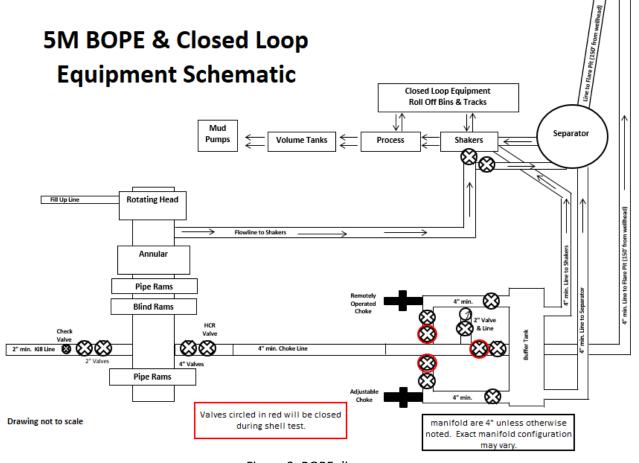


Figure 2. BOPE diagram





Figure 3. BOP handling system





Figure 4. BOP handling system



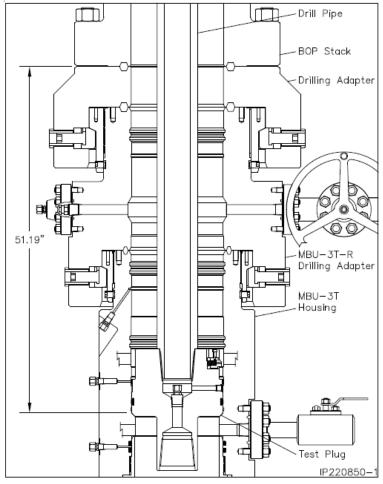


Figure 5. Cactus 5M wellhead with BOP quick connect

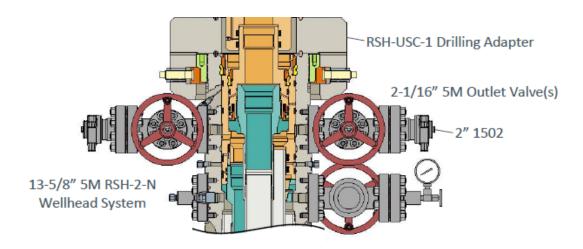


Figure 6. Vault 5M wellhead with BOP quick connect

Sec 25, T18S, R31E SHL: 1055' FNL 135' FEL (Sec 25) BHL: 1900' FNL 100' FEL (Sec 29)

Casing Program Design	sing Program Design A													
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD Csg. Size	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body		
String	Hole Size	TOP NID	TOP I VD	DOT MID		(lbs)	Grade	com.	Collapse	Burst	Tension	Tension		
Surface	17.500 in	0'	0'	1000'	1000'	13.375	48.00	H40	STC	1.78	4.01	6.71	11.27	
Int	12.250 in	0'	0'	2380'	2380'	9.625	36.00	J55	LTC	1.81	3.16	5.29	6.58	
Production	8.750 in	0'	0'	8511'	8451'	7.000	26.00	P110	LTC	1.42	2.26	3.13	3.75	
Liner	6.125 in	8361'	8302'	19873'	9381'	4.500	13.50	P110	LTC	1.99	2.31	2.17	2.72	

BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry	
			1.8 Wet	1.8 Wet	

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Cement Program

oement 1 og tun											
Casing		# Sacks	Wt. lb/gal	Yield ft ³ /sack	TOC/BOC	Volume ft ³	% Excess	Slurry Description			
13,375 in	LEAD	530	12.5	2.12	0' - 808'	1130	100%	Class C: Salt, Gel, Extender, LCM			
13.375 III	TAIL	200	14.8	1.34	808' - 1000'	268	100%	Class C: Retarder			
9.625 in	LEAD	310	12.5	2.12	' - 1693'	660	25%	Class C: Salt, Gel, Extender, LCM			
9.023 III	TAIL	200	14.8	1.34	1693' - 2380'	268	2,376	Class C: Retarder			
1st Stg 7 in	LEAD	120	12.5	2.12	4700' - 6054'	260	25%	Class C: Salt, Gel, Extender, LCM, Defoamer			
1st Stg / III	TAIL	400	15.6	1.18	6054' - 8511'	472	2.3%	Class H: Retarder, Fluid Loss, Defoamer			
					7" DV	Tool @ 4700'					
2nd Stg 7 in	LEAD	160	12.5	2.12	2180' - 3988'	340	25%	Class C: Salt, Gel, Extender, LCM, Defoamer			
2nd Stg 7 m	TAIL	100	14.8	1.34	3988' - 8511'	134	25%	Class C: Retarder, Fluid Loss, Defoamer			
4.5 in	LEAD	740	13.5	1.85	8361' - 19873'	1370	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-			

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 1000'	8.3	Fresh Water
1000' - 2380'	9	Brine
2380' - 8511'	10	Cut-Brine
8511' - 19873'	11	OBM

Geology

Formation	Est. Top (TVD)	(TVD) Mineral Resources Formation		Est. Top (TVD)	Mineral Resources
Rustler	920'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4760'	Oil/Natural Gas
Salt Top	1170'	None	Bell Canyon		
Salt Base	2280'	None	Cherry Canyon		
Yates	2490'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2940'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3590'	Oil/Natural Gas	Bone Spring	6600'	Oil/Natural Gas
Capitan			1st Bone Spring	8040'	Oil/Natural Gas
Grayburg	3900'	None	2nd Bone Spring	8680'	Oil/Natural Gas
San Andres	4230'	Oil/Natural Gas	3rd Bone Spring		
Glorieta			Wolfcamp		

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

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

SHL: 1055' FNL 135' FEL (Sec 25) BHL: 1900' FNL 100' FEL (Sec 29)

Design B - Casing Program

Hole Size	From	To	Csg. Size	weight Grade		Conn.	SF	SF Burst	SF Jt	SF Body
Hole Size	FIOIII	10	Csg. Size	(lbs)	Grade	Com.	Collapse	or burst	Tension	Tension
17.5 in	0'	1000'	13.375 in	48.0	H40	STC	1.78	4.01	6.71	11.27
12.25 in	0'	2380'	9.625 in	36.0	J55	LTC	1.81	3.16	5.29	6.58
8.75 in	0'	9461'	7.000 in	26.0	P110	LTC	1.32	2.11	2.82	3.37
6.125 in	8561'	19873'	4.500 in	13.5	P110	LTC	1.99	2.31	2.21	2.76
				RI M	Minimum Sofot	v Footors	1.125	1.0	1.6 Dry	1.6 Drv
				BLM Minimum Safety		y ractors	1.125	1.0	1.8 Wet	1.8 Wet

Design B - Cement Program

resign B - Cenient I togram											
Casing		# Sacks	Wt. lb/gal	Yield cu.ft/sack	TOC	% Excess	Slurry Description				
13,375 in	LEAD	530	12.5	2.12	0	100%	Class C: Salt, Gel, Extender, LCM				
13.373 III	TAIL	200	14.8	1.34	U	100%	Class C: Retarder				
9.625 in	5 in LEAD 310 12.5 2.12 0 25%		Class C: Salt, Gel, Extender, LCM								
9.025 III	TAIL	200	14.8	1.34	U	U	2,3%	Class C: Retarder			
	LEAD	50	12.5	2.12	0	25%	Class C: Salt, Gel, Extender, LCM				
	TAIL	100	14.8	1.34	U	U	U	2,370	Class C: Retarder		
1st Stg 7 in	LEAD	200	12.5	2.12	0	25%	Class C: Salt, Gel, Extender, LCM, Defoamer				
1st Stg / III	TAIL	400	15.6	1.18	U	2,370	Class H: Retarder, Fluid Loss, Defoamer				
					7" DV To	ol @ 4700'					
2nd Stg 7 in	LEAD	160	12.5	2.12	0	25%	Class C: Salt, Gel, Extender, LCM, Defoamer				
2nu Stg / In	TAIL	100	14.8	1.34	0	25%	Class C: Retarder, Fluid Loss, Defoamer				
4.5 in	LEAD	720	13.5	1.85	8561	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent				

Design B - Mud Program

Depth	Mud Wt	Mud Type
0' - 1000'	8.3	Fresh Water
1000' - 2380'	9	Brine
2380' - 9461'	10	Cut-Brine
9461' - 19873'	11	OBM

Geology

	E T T T T T T T T T T T T T T T T T T T				Maria
Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	920'	Usable Water	Yeso		
Castile			Delaware (Lamar)	4760'	Oil/Natural Gas
Salt Top	1170'	None	Bell Canyon		
Salt Base	2280'	None	Cherry Canyon		
Yates	2490'	Oil/Natural Gas	Manzanita Marker		
Seven Rivers	2940'	Oil/Natural Gas	Basal Brushy Canyon		
Queen	3590'	Oil/Natural Gas	Bone Spring	6600'	Oil/Natural Gas
Capitan			1st Bone Spring	8040'	Oil/Natural Gas
Grayburg	3900'	None	2nd Bone Spring	8680'	Oil/Natural Gas
San Andres	4230'	Oil/Natural Gas	3rd Bone Spring		
Glorieta			Wolfcamp		

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-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?	0
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

Sundry Request:

Mewbourne Oil Company request that the following change be made to the Thundercloud 29/30 B2HE Fed Com #1H (APD ID #10400082981):

- 1. Change well name f/ Thundercloud 29/30 B2HE Fed Com #1H (APD ID #10400082981) to Thundercloud 30/29 Fed Com #523H.
- 2. Attached Plat with new well name.
- 3. Change Surface setting depth f/ 1160' to 1000' & Intermediate setting depth f/ 4710' to 2380'.
- 4. Attached Csg assumptions for updated setting depths.
- 5. Request a variance to perform break testing and offline cementing per attachments.
- 6. Attached Break Testing and Offline Cementing variance.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY
WELL NAME & NO.: THUNDERCLOUD 30/29 FED COM 523H
SURFACE HOLE FOOTAGE: 1055'/N & 135'/E
BOTTOM HOLE FOOTAGE 1900'/N & 100'/E
SURFACE LOCATION: Section 25, T.18 S., R.31 E. NMP.

COUNTY: Eddy County, New Mexico

COA

H_2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	© Low	© Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Other	✓ Offline Cementing	☐ Pilot Hole	☑ Break testing
Other	□ 4 String	☐ Capitan Reef	□WIPP
Special Requirements	☐ Water Disposal	▼ COM	□ Unit

SEE THE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

The previous name of this well was THUNDERCLOUD 29/30 B2HE FED COM 1H.

A. CASING DESIGN

- 1. The 13-3/8 inch surface casing shall be set at approximately 1,000 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> <u>hours</u> or <u>500</u> 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 2,380 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.

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

3. Operator has proposed to set **7 in.** production casing at approximately **8,511 ft.** The minimum required fill of cement behind the **7 in.** production casing is:

<u>Option 1 (Single-Stage):</u> Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

<u>Option 2 (Two-stage):</u> Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. **Second stage above DV tool:** Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Note: operator has requested to have an option to set the production casing approximately at **9,461 ft.** this option is approved. Adjust cement volume accordingly.

- **4.** The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

B. 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. Before drilling the surface casing shoe out, the

BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172 and API Standard 53.**

- 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.

C. 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)
 - Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)689-5981

- 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per title 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 dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 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-P 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 the **title 43 CFR 3172** and **API STD 53 Sec. 5.3**.
- 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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in the title 43 CFR 3172.6(b)(9) must be followed.
 - e. 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.
 - a. 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, cutoff cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. 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.)
- c. 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 12/04/2023

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 290750

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	290750
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

	Created By	Condition	Condition Date
Ī	ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	7/11/2025