Office	Po Appropriate Distric	<i>[:38 AM</i>	State of New	w Mexico	1			Form C	age 1 oj -103
<u>District I</u> – (575	·		gy, Minerals and	Natural R	esources			Revised July 18	, 2013
1625 N. French District II – (575	Dr., Hobbs, NM 88240 5) 748-1283					WELL A 30-015-			
811 S. First St.,	Ártesia, NM 88210	OIL	CONSERVAT				te Type of Leas	se	
District III – (50)5) 334-6178 s Rd., Aztec, NM 8741	0	1220 South St.				ATE	FEE	
District IV - (50		0	Santa Fe, N	M 87505		6. State (Dil & Gas Lease	e No.	
87505	SUNDRY N	OTICES AND	REPORTS ON W	ELLS		7. Lease	Name or Unit A	Agreement Na	ame
			ILL OR TO DEEPEN PERMIT" (FORM C-				Trace 1/36 H	•	
	Vell: Oil Well 🔽	Gas Well	Other			8. Well N	^{Number} 1H		
2. Name of C						9. OGRI 1474	D Number 4		
3. Address o	of Operator					10. Pool	name or Wildca	at	
PO Box	5270 Hobbs, NM	1 88240				Corral	Canyon; Bone	e Spring Sou	th
4. Well Loca						•			
Unit	t Letter <u>C</u>	:460	feet from the	North	_ line and	1540	_feet from the _	West	line
Sect	tion 12		Township 26S	Range	29E	NMPM	Coun	ity Eddy	
		11. Eleva 2995	ation (Show whethe 5' GL	er DR, RKB	8, RT, GR, etc	·.)			
	12. Cheo	ck Appropria	te Box to Indica	ate Nature	e of Notice.	. Report or	Other Data		
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	NOTICE OF								
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OTHER:		—	\checkmark		HER:				
			tions. (Clearly stat RULE 19.15.7.14 N						ed date
propo	osed completion or	recompletion.			-			-	
					nade to the l	Duffele Tree			411
Mewbour	ne Oil Company	is requesting	the following cha	indes he n		вшиаю гла	2e 1/36 H3NC	Eed Com #	IH Wei
Mewbour 1. Intermo	ne Oil Company ediate 9 5/8" cas	is requesting ing set depth t	the following cha to change from 3	150' to 43	50'.		ce 1/36 H3NC	Fed Com #	IH wei
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	Casing Pi	rogram								
Hole	Casing	Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	770'	13.375"	48	H40	STC	2.19	4.91	8.71	14.64
12.25"	0'	4350'	9.625"	40	J55	LTC	1.14	1.75	2.99	3.62
8.75"	0'	8775'	7"	26	P110	LTC	1.41	2.25	2.80	3.64
6.125"	8575'	20246'	4.5"	13.5	P110	LTC	1.81	2.10	2.15	2.68
				BL	M Minimu	m Safety	1.125	1	1.6 Dry	1.6 Dry
						Factor			1.8 Wet	1.8 Wet

- Highlighted in red is change in 9 5/8" casing design from 3150' to 4350'.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Ν
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
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.	
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?	XXXX'
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, Buffalo Trace 1-36 H3NC Fed Com #1H Sec 12, T26S, R29E SHL: 460' FNL & 1540' FWL, Sec 12 BHL: 100' FNL & 1330' FWL, Sec 36

Geology for Csg Set Depths

Formation	Est. Top	Formation	Est. Top
Rustler	692	Delaware (Lamar)	3236
Salt Top	969	Bell Canyon	3263
Castile	1608	Cherry Canyon	4131
Salt Base	3042	Manzanita Marker	4348
Yates		Basal Brushy Canyon	
Seven Rivers		Bone Spring	7043
Queen		1 st Bone Spring	7618
Capitan		2 nd Bone Spring	8837
San Andres		3 rd Bone Spring	9861
Glorieta		Abo	
Yeso		Wolfcamp	10219

- Highlighted in red is where we would like to set our Intermediate 9 5/8" casing right at the top of the Manzanita @ 4350'.

Mewbourne Oil Company, Buffalo Trace 1-36 H3NC Fed Com #1H Sec 12, T26S, R29E SHL: 460' FNL & 1540' FWL, Sec 12 BHL: 100' FNL & 1330' FWL, Sec 36

Cement Design Table

Csg	DV Tool	Top MD	Bottom MD	# Sks	Yield	Density	% Excess	Slurry Description
Surface (Lead)		0'	578'	380	2.12	12.5	100	Class C, Salt, Gel, Extender, LCM
Surface (Tail)		578'	770'	200	1.34	14.8	100	Class C, Retarder
Intermediate (Lead)	3000'	0'	2657'	490	2.12	12.5	25	Class C, Salt, Gel, Extender, LCM
Intermediate (Tail)	3000′	2657′	3000'	100	1.34	14.8	25	Class C, Salt, Gel, Extender, LCM
Intermediate (Lead)	3000′	3000′	3684'	130	2.12	12.5	25	Class C, Salt, Gel, Extender, LCM
Intermediate (Tail)	3000′	3684′	4350'	200	1.34	14.8	25	Class C, Retarder
Production (Lead)		4150'	6280′	190	2.12	12.5	25	Class C, Salt, Gel, Extender, LCM, Defoamer
Production (Tail)		6280'	8775'	400	1.18	15.6	25	Class H, Retarder, Fluid Loss, Defoamer
Liner		8575'	20246'	750	1.85	13.5	25	Class H, Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

- Highlighted in red indicates change in our cement design based off of the deepening of our 9 5/8" casing and installation of DV Tool @ 3000'.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM011039
WELL NAME & NO.:	BUFFALO TRACE 1-36 H3NC Fed Com 1H
SURFACE HOLE FOOTAGE:	460'/N & 1540'/W
BOTTOM HOLE FOOTAGE	100'/N & 1330'/W
LOCATION:	Section 12, T.26 S., R.29 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	C Low	Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	O Other
Wellhead	Conventional	Multibowl	O Both
Other	□4 String Area	Capitan Reef	WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	🗌 Water Disposal	COM	🗆 Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **770** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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 $\underline{\mathbf{8}}$ <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength,

whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **9-5/8** inch intermediate casing shall be set at approximately **4,350** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• 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 or potash. Excess cement calculates to -61%, additional cement might be required.

Option 2:

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 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 or potash. Excess cement calculates to 19%, additional cement might be required.
- In <u>Medium Cave/Karst Areas</u> 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 minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the **4-1/2** inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

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.
 - 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 OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

OTA02022023

Received by OCD: 2/3/2023 11:24:38 AM

eceived by OCD. 2/5/202	5 11.27.50 /11/1		1 450 0
Form 3160-5 (June 2019)	UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MA	INTERIOR	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.
Do not use	RY NOTICES AND REF this form for proposals vell. Use Form 3160-3 (6. If Indian, Allottee or Tribe Name	
	IIT IN TRIPLICATE - Other ins	tructions on page 2	7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well	Gas Well Other		8. Well Name and No.
2. Name of Operator			9. API Well No.
3a. Address		3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Se	ec., T.,R.,M., or Survey Descriptio	n)	11. Country or Parish, State
1:	2. CHECK THE APPROPRIATE	BOX(ES) TO INDICATE NATURE O	F NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION		ТҮРЕ	OF ACTION
Notice of Intent	Acidize	Deepen Hydraulic Fracturing	Production (Start/Resume) Water Shut-Off Reclamation Well Integrity
Subsequent Report	Subsequent Report Casing Repair		Recomplete Other Temporarily Abandon
Final Abandonment Noti		Plug and Abandon	Water Disposal
the proposal is to deepen dir the Bond under which the w completion of the involved of	ectionally or recomplete horizont ork will be perfonned or provide operations. If the operation results ent Notices must be filed only aft	ally, give subsurface locations and mea the Bond No. on file with BLM/BIA. R in a multiple completion or recompleti	arting date of any proposed work and approximate duration thereof. sured and true vertical depths of all pertinent markers and zones. At equired subsequent reports must be filed within 30 days following ion in a new interval, a Form 3160-4 must be filed once testing has b ion, have been completed and the operator has detennined that the si

14. Thereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)		
	Title	
Simpler		
Signature	Date	
THE SPACE FOR FEDE	RAL OR STATE O	FICE USE
Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant 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.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		llfully to make to any department or agency of the United States

(Instructions on page 2)

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, 3162.3-3, 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

Additional Information

Location of Well

0. SHL: NENW / 460 FNL / 1540 FWL / TWSP: 26S / RANGE: 29E / SECTION: 12 / LAT: 32.0629379 / LONG: -103.9405084 (TVD: 0 feet, MD: 0 feet) PPP: SESW / 0 FSL / 1330 FWL / TWSP: 25S / RANGE: 29E / SECTION: 36 / LAT: 32.0789672 / LONG: -103.9417006 (TVD: 9449 feet, MD: 15032 feet) PPP: SESW / 100 FSL / 1330 FWL / TWSP: 26S / RANGE: 29E / SECTION: 1 / LAT: 32.0644665 / LONG: -103.9412261 (TVD: 9425 feet, MD: 9755 feet) BHL: NENW / 100 FNL / 1330 FWL / TWSP: 25S / RANGE: 29E / SECTION: 36 / LAT: 32.0932928 / LONG: -103.9421695 (TVD: 9473 feet, MD: 20246 feet)

Received by UCD: 2/3/2023 11:24:38 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 02/02/2023
Well Name: BUFFALO TRACE 1/36 H3NC FED COM	Well Location: T26S / R29E / SEC 12 / NENW /	County or Parish/State:
Well Number: 1H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM011039	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553335	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Sundry ID: 2713357

Type of Submission: Notice of Intent

Date Sundry Submitted: 01/31/2023

Date proposed operation will begin: 02/09/2023

Type of Action: APD Change Time Sundry Submitted: 11:12

Procedure Description: Mewbourne Oil Company is requesting the following changes be made to the Buffalo Trace 1/36 H3NC Fed Com #1H well: 1. Intermediate 9 5/8" casing set depth to change from 3150' (above Lamar formation) to 4350' (right at the top of the Manzanita member). 2. DV Tool to be installed at 3000' in our 9 5/8" Intermediate casing. Adjusted csg and cmt program corresponding to the new intermediate csg set depth and DV tool set depth is listed in attachments.

NOI Attachments

Procedure Description

Buffalo_Trace_1_36_H3NC_Fed_Com_1H_Csg___Cmt_Design_20230131105840.pdf

Received by OCD: 2/3/2023 11:24:38 AM Well Name: BUFFALO TRACE 1/36 H3NC FED COM	Well Location: T26S / R29E / SEC 12 / NENW /	County or Parish/State: Page 12 of 13
Well Number: 1H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM011039	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553335	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Conditions of Approval

Specialist Review

BUFFALO_TRACE_1_36_H3NC_Fed_Com_1H_Drilling_Sundry_2713357_COA_OTA_20230202132950.pdf

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

, 2023 10:59 AM

BLM Point of Contact

Email address:

BLM POC Name: AJIBOLA OLABODE BLM POC Phone: 5752342231 Disposition: Approved Signature: Olabode Thomas Ajibola

BLM POC Title: Engineer

BLM POC Email Address: OAJIBOLAEIT@BLM.GOV

Disposition Date: 02/02/2023

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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	182452
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	2/7/2023

CONDITIONS

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Action 182452