•			RECEMED	<b>\$</b>		
Form 3160-5 (June 2015) DE	UNITED STATES	S NTERIOR CEMENT		118	FORM A OMB NO Expires: Jac	APPROVED 0. 1004-0137 nuary 31, 2018
SUNDRY	NOTICES AND REPO		NUV I O LU		5. Lease Serial No. NMNM010907A	
Do not use thi abandoned we	s form for proposals to II. Use form 3160-3 (API	drill or to re-en D) for such plot	<b>ETTRAFITES</b>	AO.C.D.	6. If Indian, Allottee or	Tribe Name
SUBMIT IN T	TRIPLICATE - Other inst	tructions on pag	e 2		7. If Unit or CA/Agree	ment, Name and/or No.
<ol> <li>Type of Well</li> <li>Oil Well Gas Well Oth</li> </ol>	ier		!		8. Well Name and No. WISHBONE 35/34	B2PM FED COM 1H
2. Name of Operator MEWBOURNE OIL COMPAN	Contact: Y E-Mail: jlathan@m	JACKIE LATHAN			9. API Well No. 30-015-46208-0	0-X1
3a. Address P O BOX 5270 HOBBS, NM 88241		3b. Phone No. (in Ph: 575-393-5	liude area code) 905		10. Field and Pool or E TURKEY TRACI	xploratory Area
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description	)			11. County or Parish, S	State
Sec 35 T18S R29E SESE 670 32.698723 N Lat, 104.037743	OFSL 275FEL W Lon				EDDY COUNTY	, NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE	NATURE OF	NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
M Notice of Intent	🗖 Acidize	🗖 Deepen		Product	ion (Start/Resume)	□ Water Shut-Off
	🛛 Alter Casing	🗖 Hydrau	ic Fracturing	🗖 Reclam	ation	Well Integrity
Subsequent Report	Casing Repair	🗖 New Co	nstruction	🗖 Recomp	olete	Other
Final Abandonment Notice	Change Plans	🗖 Plug an	l Abandon	Tempor	arily Abandon	
	Convert to Injection	🗖 Plug Ba	ck	U Water I	Disposal	
If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f Mewbourne Oil Company wou	ally or recomplete horizontally, rk will be performed or provide l operations. If the operation re pandonment Notices must be fil inal inspection. Id like to make the follow	give subsurface loca the Bond No. on file sults in a multiple co led only after all requ	tions and measur with BLM/BIA. mpletion or recor irements, includi	ed and true ve Required su npletion in a ng reclamatio	ertical depths of all pertin bsequent reports must be new interval, a Form 316 n, have been completed a	ent markers and zones. filed within 30 days )-4 must be filed once nd the operator has
1. Change 9 5/8" csg setting o	lepth to 1260'.			( and	char Hiel	n Office
2. Change cement to suit new	2. Change cement to suit new casing design as detailed in attachment.					
The following are attached:					TACHED E	ΩD
Casing Assumptions Cementing Program		Ì	CONDI	TIONS OF A	APPROVAL	
All previous COAs	Still apply exi	ceptfor H	he folla	sing;	<u>V</u>	
<ol> <li>I hereby certify that the foregoing is</li> </ol>	s true and correet." // Electronic Submission # For MEWBOU nmitted to AFMSS for proc	491196 verified b RNE OIL COMPAI essing by PRISCI	the BLM Well IY, sent to the LLA PEREZ on	Information Carlsbad 11/06/2019	n System (20PP0343SE)	
Name (Printed/Typed) LEVI JAC	KSON	Ti	le ENGINE	ER		<u> </u>
Signature (Electronic	Submission)	D	ite 11/05/20	19		
	THIS SPACE FO	OR FEDERAL	OR STATE C	OFFICE U	SE	
<u>.,</u>						
_Approved By_JEROMY PORTER			itlePETROLEU	JM ENGIN	EER	Date 11/12/2019
Conditions of approval, if any, are attached certify that the applicant holds legal or eq which would entitle the applicant to condu-	ed. Approval of this notice doe: uitable title to those rights in th uct operations thereon.	s not warrant or e subject lease	ffice Carlsbad			
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations a	crime for any persons to any matter within	h knowingly and its jurisdiction.	willfully to m	ake to any department or	agency of the United
(Instructions on page 2) <b>** BLM REV</b>	ISED ** BLM REVISE	D ** BLM REV	SED ** BLM	REVISE	D** BLM REVISE Ted 1/27/20	D** ₩5

### Additional data for EC transaction #491196 that would not fit on the form

32. Additional remarks, continued

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#### Revisions to Operator-Submitted EC Data for Sundry Notice #491196

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	Operator Submitted
Sundry Type:	CSG-ALTER NOI
Lease:	NMNM010907A
Agreement:	
Operator:	MEWBOURNE OIL COMPANY PO BOX 5270 HOBBS, NM 88241 Ph: 575-393-5905
Admin Contact:	JACKIE LATHAN AUTHORIZED REPRESENTATIVE E-Mail: jlathan@mewbourne.com Ph: 575-393-5905
Tech Contact:	LEVI JACKSON ENGINEER E-Mail: Ijackson@mewbourne.com Ph: 575-393-5905
Location: State: County:	NM EDDY
Field/Pool:	TURKEY TRACK BONE SPRINGS

Well/Facility: WISHBONE 35/34 B2PM FED COM 2H Sec 35 T18S R29E Mer NMP SESE 670FSL 275FEL

#### BLM Revised (AFMSS) CSG-ALTER NOI

NMNM010907A

MEWBOURNE OIL COMPANY P O BOX 5270 HOBBS, NM 88241 Ph: 575.393.5905

JACKIE LATHAN AUTHORIZED REPRESENTATIVE E-Mail: jlathan@mewbourne.com

Ph: 575-393-5905

LEVI JACKSON ENGINEER E-Mail: ljackson@mewbourne.com

Ph: 575-393-5905

NM EDDY

TURKEY TRACK

WISHBONE 35/34 B2PM FED COM 1H Sec 35 T18S R29E SESE 670FSL 275FEL 32.698723 N Lat, 104.037743 W Lon

## Mewbourne Oil Company, Wishbone 35/34 B2PM Fed Com #1H Sec 35, T18S, R29E SL: 670' FSL & 275' FEL, Sec 35 BHL: 946' FSL & 100' FWL, Sec 34

### **Casing Program**

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'	325'	13.375"	48	H40	STC	5.18	11.63	20.64	34.68
12.25"	0'	1260'	9.625"	36	J55	LTC	3.08	5.37	9.99	12.43
8.75"	0'	8364'	7"	26	HCP110	LTC	1.86	2.52	2.92	3.82
6.125"	7607'	18,330'	4.5"	13.5	P110	LTC	2.54	2.96	2.33	2.92
В	LM Mini	mum Safet	ty 1.125	1	1.6 Dr	y   1.6 D	)ry			
		Facto	or		1.8 We	et   1.8 W	Vet			

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	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?	Ν
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?	Ν
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
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, Wishbone 35/34 B2PM Fed Com #1H Sec 35, T18S, R29E SL: 670' FSL & 275' FEL, Sec 35 BHL: 946' FSL & 100' FWL, Sec 34

### **Cementing Program**

Casing	<b># Sks</b>	Wt. lb/ gal	Yld ft3// sack	H20 gal/ sk	500# Comp. Strength	Slurry Description
Surf.	90	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	110	12.5	2.12	11	-10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	430	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	430	11.2	2.97	17	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times, compressive strengths, etc.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	1060'	25%
Liner	7607'	25%

2

Mewbourne Oil Company, Wishbone 35/34 B2PM Fed Com #1H Sec 35, T18S, R29E SL: 670' FSL & 275' FEL, Sec 35 BHL: 946' FSL & 100' FWL, Sec 34

Drilling Plan

3

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

MEWBOURNE OIL COMPANY
NMNM010907A
WISHBONE 35/34 B2PM FED COM 1H
670'/S & 275'/E
946'/S & 100'/W
Section 35, T.18 S., R.29 E., NMPM
EDDY County, New Mexico

## COA

H2S	• Yes	C No	
Potash	• None	✓ Secretary	C R-111-P
Cave/Karst Potential	• Low		🕻 High
Cave/Karst Potential			_
Variance	( None	✤ Flex Hose	C Other
Wellhead	Conventional	• Multibowl	C Both
Other	□     □     4 String Area	Capitan Reef	<b>└</b> WIPP
Other	Fluid Filled	Cement Squeeze	☐ Pilot Hole
Special Requirements	└ Water Disposal	COM	<b>□</b> Unit

#### All previous COAs still apply, except for the following:

#### A. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 325 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 <u>8</u>
     <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 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. Excess cement calculates to 15%, additional cement might be required. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 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 **3000 (3M)** 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</u> <u>on the sign.</u> JJP11122019

# 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

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- Lea County
   Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
   393-3612
- 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 2<sup>nd</sup> 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 Onshore Oil and Gas Order No. 2 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.
- 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 <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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 OOGO2.III.A.2.i 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 when specified), 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).
  - 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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.
- 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 Onshore Order No. 2.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.