



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

## Sundry Print Report

01/24/2021

<b>Well Name:</b> ZACH 17 W0MD FED	<b>Well Location:</b> T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 2H	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0160973	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002547530	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

**Notice of Intent****Type of Submission:** Notice of Intent**Type of Action:** Casing**Date Sundry Submitted:** 01/22/2021**Time Sundry Submitted:** 09:24**Date proposed operation will begin:** 01/22/2021

**Procedure Description:** Mewbourne Oil Co. is requesting to run 7 5/8" 39# P110 HDL as the production string in place of 7" 29# HCP110 LTC. See attachment for casing & cement programs.

**Surface Disturbance****Is any additional surface disturbance proposed?:** No**NOI Attachments****Procedure Description**

Zach\_17\_8\_W0MD\_Fed\_Com\_2H\_Technical\_Data\_Sheet\_VAM\_HDL\_7.625\_x\_39\_P110\_20210122092213.pdf

Zach\_17\_8\_W0MD\_Fed\_Com\_2H\_Csg\_\_\_cmt\_program\_20210122092048.pdf

**Conditions of Approval****Specialist Review**

ZACH\_17\_W0MD\_FED\_2H\_Sundry\_Drilling\_COA\_OTA\_20210124122336.pdf

<b>Well Name:</b> ZACH 17 W0MD FED	<b>Well Location:</b> T26S / R33E / SEC 17 / SWSW / 32.0370135 / -103.5986299	<b>County or Parish/State:</b> LEA / NM
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**Operator Certification**

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 submission of Form 3160-5 or a Sundry Notice.

**Operator Electronic Signature:** BISHOP**Signed on:** JAN 22, 2021 09:22 AM**Name:** MEWBOURNE OIL COMPANY**Title:** Regulatory**Street Address:** P O BOX 5270**City:** HOBBS**State:** NM**Phone:** (505) 393-5905**Email address:** NOT ENTERED**Field Representative****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****BLM POC Name:** AJIBOLA OLABODE**BLM POC Title:** Engineer**BLM POC Phone:** 5752342231**BLM POC Email Address:** OAJIBOLAEIT@BLM.GOV**Disposition:** Approved**Disposition Date:** 01/24/2021**Signature:** Olabode Thomas Ajibola

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1625 N. French Dr., Hobbs, NM 88240  
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State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

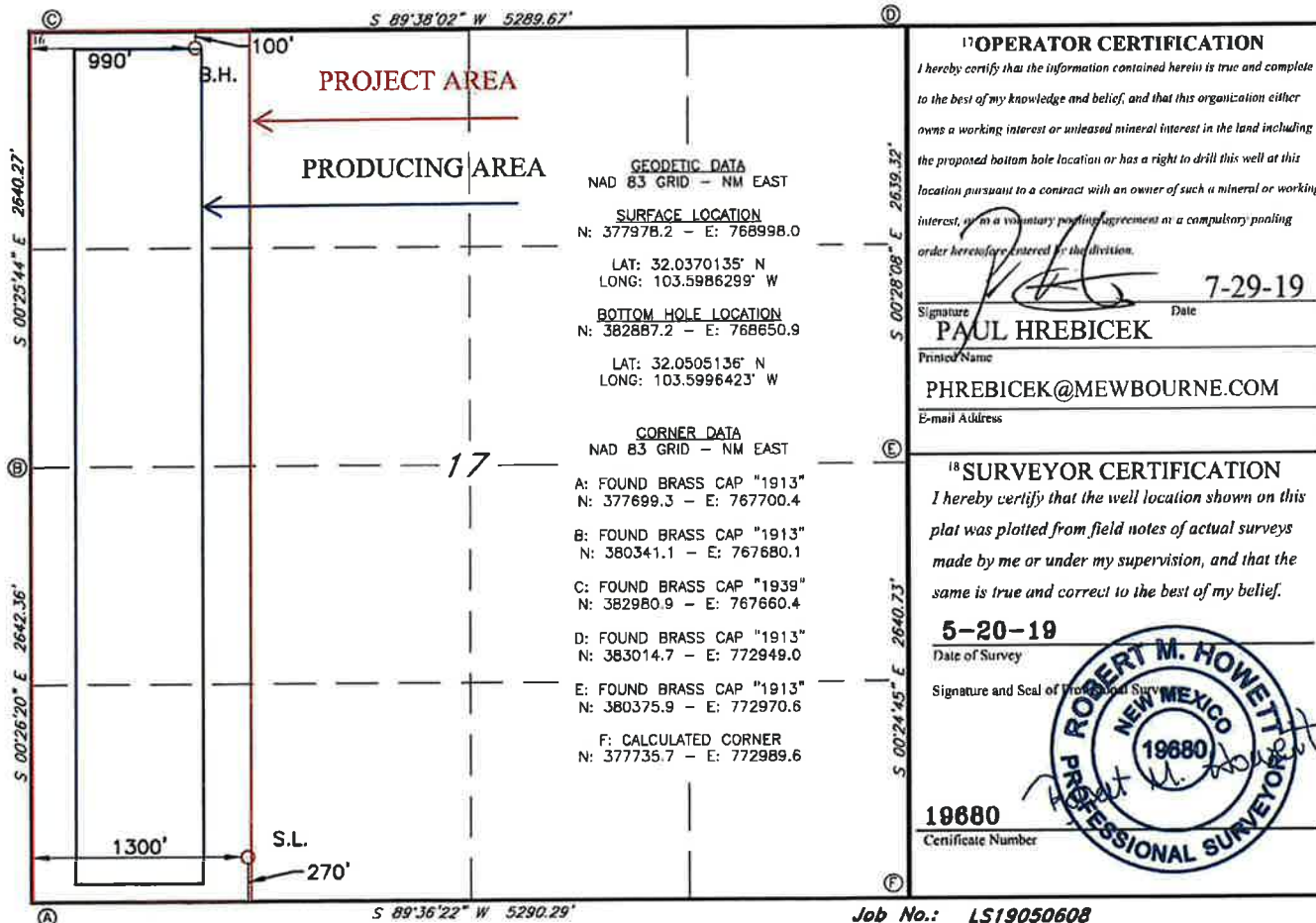
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98097		<sup>3</sup> Pool Name SANDERS TANK; UPPER WOLFCAMP					
<sup>4</sup> Property Code		<sup>5</sup> Property Name ZACH 17 WOMB FED						<sup>6</sup> Well Number 2H	
<sup>7</sup> GRID NO. 14744		<sup>8</sup> Operator Name MEWBOURNE OIL COMPANY						<sup>9</sup> Elevation 3267'	
<sup>10</sup> Surface Location									
UL or lot no. <b>M</b>	Section <b>17</b>	Township <b>26S</b>	Range <b>33E</b>	Lot Idn	Feet from the <b>270</b>	North/South line <b>SOUTH</b>	Feet from the <b>1300</b>	East/West line <b>WEST</b>	County <b>LEA</b>
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. <b>D</b>	Section <b>17</b>	Township <b>26S</b>	Range <b>33E</b>	Lot Idn	Feet from the <b>100</b>	North/South line <b>NORTH</b>	Feet from the <b>990</b>	East/West line <b>WEST</b>	County <b>LEA</b>
<sup>12</sup> Dedicated Acres 160		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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 Company, Zach 17/8 W0MD Fed Com #2H**  
**Sec 17, T26S, R33E**  
**SL: 270' FSL & 1300' FWL (Sec 17)**  
**BHL: 100' FNL & 990' FWL (Sec 8)**

**Casing Program**

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	815'	13.375"	48	H40	STC	2.06	4.64	8.23	13.83
12.25"	0'	4393'	9.625"	40	J55	LTC	1.13	1.73	2.96	3.58
12.25"	4393'	4760'	9.625"	40	N80	LTC	1.25	2.32	50.23	62.43
8.75"	0'	11,704'	7.625"	39	HCP110	FJ	2.00	2.08	1.61	2.70
6.125"	11,500'	22,481'	4.5"	13.5	P110	LTC	1.29	1.50	2.32	2.90
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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 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.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-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?	

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**Cementing Program**

Casing	# Sks	Wt. lb/ gal	Yld ft <sup>3</sup> / sack	H <sub>2</sub> O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	415	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.	790	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. Stg 1	115	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
ECP/DV Tool @ 6120'						
Prod. Stg 2	50	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	440	11.2	2.97	18	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.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4560'	25%
Liner	11,500'	25%



## Technical Specifications

<b>Connection Type:</b>	<b>Size(O.D.):</b>	<b>Weight (Wall):</b>	<b>Grade:</b>
HD-L Casing	7-5/8 in	39.00 lb/ft (0.5 in)	P-110
STANDARD			

	<b>Material</b>
P-110	Grade
110,000	Minimum Yield Strength (psi.)
125,000	Minimum Ultimate Strength (psi.)

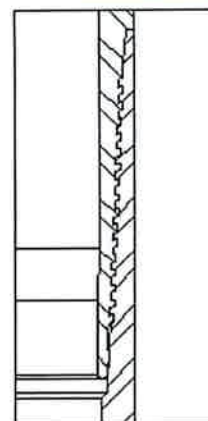


	<b>Pipe Dimensions</b>
7.625	Nominal Pipe Body O.D. (in.)
6.625	Nominal Pipe Body I.D. (in.)
0.500	Nominal Wall Thickness (in.)
39.00	Nominal Weight (lbs./ft.)
38.08	Plain End Weight (lbs./ft.)
11.192	Nominal Pipe Body Area (sq. in.)

VAM USA  
4424 W. Sam Houston Pkwy. Suite 150  
Houston, TX 77041  
Phone: 713-479-3200  
Fax: 713-479-3234  
E-mail: [VAMUSAsales@vam-usa.com](mailto:VAMUSAsales@vam-usa.com)

	<b>Pipe Body Performance Properties</b>
1,231,000	Minimum Pipe Body Yield Strength (lbs.)
11,080	Minimum Collapse Pressure (psi.)
12,620	Minimum Internal Yield Pressure (psi.)
11,500	Hydrostatic Test Pressure (psi.)

	<b>Connection Dimensions</b>
7.625	Connection O.D. (in.)
6.551	Connection I.D. (in.)
6.500	Connection Drift Diameter (in.)
4.51	Make-up Loss (in.)
6.939	Critical Area (sq. in.)
62.0	Joint Efficiency (%)



	<b>Connection Performance Properties</b>
763,000 (1)	Joint Strength (lbs.)
867,000 (2)	Reference Minimum Parting Load (lbs.)
14,310	Reference String Length (ft) 1.4 Design Factor
763,000	Compression Rating (lbs.)
11,080	Collapse Pressure Rating (psi.)
12,620	Internal Pressure Rating (psi.)
41.0	Maximum Uniaxial Bend Rating [degrees/100 ft]

	<b>Recommended Torque Values</b>
8,500 (3)	Minimum Final Torque (ft.-lbs.)
9,800 (3)	Maximum Final Torque (ft.-lbs.)

- (1) Joint strength is the elastic limit or yield strength of the connection.  
(2) Reference minimum parting load is the ultimate strength or parting load of the connection.  
(3) Torque values are recommended and can be affected by field conditions.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof, and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any

## Technical Specifications

Page 2 of 2

warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

11/28/2018 3:33 PM

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>Mewbourne Oil Company</b>
<b>LEASE NO.:</b>	<b>NMNM0160973</b>
<b>WELL NAME &amp; NO.:</b>	<b>ZACH 17 W0MD FED #2H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>270'/S &amp; 1330'/W</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>100'/N &amp; 1650'/W</b>
<b>LOCATION:</b>	<b>Section 17, T.26 S., R.33 E., NMP</b>
<b>COUNTY:</b>	<b>Lea County, New Mexico</b>

### COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit

**All Previous COAs Still Apply.**

### A. CASING

#### Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **860 feet** (a minimum of **25 feet (Lea 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 **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength,



whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 
2. The 9-5/8 inch intermediate casing shall be set at approximately 4760 feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
    - Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
  - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 7-5/8 inch production casing is:

**Option 1 (Single Stage):**

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.  
**Excess cement calculates to -1%, 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.

- b. 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.
  - c. Second stage above DV tool:
    - 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.

**Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

**Option 2:**

1. 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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

**OTA0122021**

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

CONDITIONS  
  
Action 15591

CONDITIONS OF APPROVAL

Operator:	MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM88241	OGRID:	14744	Action Number:	15591	Action Type:	C-103A
OCD Reviewer									Condition
pkautz									None