

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**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.*

5. Lease Serial No. **19619**  
NMNM16348

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No. **319573**  
ARMSTRONG 26 23 W1HA FED COM 2H

9. API Well No.  
30-015-43799-00-X1

10. Field and Pool or Exploratory Area  
ROSS RANCH

11. County or Parish, State  
EDDY COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator **MEWBOURNE OIL COMPANY**  
Contact: **JACKIE LATHAN**  
E-Mail: **jlathan@mewbourne.com**

3a. Address  
**P O BOX 5270  
HOBBS, NM 88241**

3b. Phone No. (include area code)  
Ph: **575-393-5905**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Sec 26 T25S R31E SENE 2625FNL 330FEL**

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 performed 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 determined that the site is ready for final inspection.

Mewbourne Oil Company has an approved APD for the above well. Mewbourne requests approval to make the following changes:

- 1) Change well name to Armstrong 26/35 W0IP Fed Com #2H.
- 2) Change BHL to 330' FSL & 330' FEL, Sec 35, T25S, R31E.
- 3) Change csg depth and cement to suit new plan.
- 4) Change wellhead to multi-bowl type wellhead.

**9-11-17 NM OIL CONSERVATION**  
**Accepted for record - NMOCD** ARTESIA DISTRICT  
**SEP 08 2017**

Please see attachments for C-102, wellhead schematic, new drilling plan, casing & cement information.

Please contact Andy Taylor with any questions.

**RECEIVED**  
**CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #381479 verified by the BLM Well Information System  
For MEWBOURNE OIL COMPANY, sent to the Carlsbad  
Committed to AFMSS for processing by TENILLE ORTIZ on 08/08/2017 (17T0024SE)**

Name (Printed/Typed) **ANDREW TAYLOR**

Title **ENGINEER**

Signature (Electronic Submission)

Date **07/17/2017**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By *[Signature]*

Title *Eng*

Date *9/11/17*

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 which would entitle the applicant to conduct operations thereon.

Office *CFC*

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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

Mewbourne Oil Co, Armstrong 26/35 W0IP Fed Com #2H  
 Sec 26, T25S, R31E  
 SL: 2625' FNL & 330' FEL, Sec 26  
 BHL: 330' FSL & 330' FEL, Sec 35

**1. Geologic Formations**

TVD of target	11796'	Pilot hole depth	N/A
MD at TD:	19200'	Deepest expected fresh water:	325'

**Basin**

<b>Formation</b>	<b>Depth (TVD) from KB</b>	<b>Water/Mineral Bearing/ Target Zone?</b>	<b>Hazards*</b>
Quaternary Fill	Surface	Water	
Rustler	910	Water	
Top of Salt	1308	Salt	
Base of Salt	4097	Barren	
Delaware (Lamar)	4335	Oil/Gas	
Bell Canyon	4371		
Cherry Canyon	5402		
Manzanita Marker	5541		
Brushy Canyon	6910		
Bone Spring	8308	Oil/Gas	
1 <sup>st</sup> Bone Spring	9337		
2 <sup>nd</sup> Bone Spring	9974		
3 <sup>rd</sup> Bone Spring	11215		
Wolfcamp	11655	Target Zone	
Atoka			
Morrow			
Barnett Shale			
Devonian			
Granite Wash			

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Co, Armstrong 26/35 W0IP Fed Com #2H

Sec 26, T25S, R31E

SL: 2625' FNL & 330' FEL, Sec 26

BHL: 330' FSL & 330' FEL, Sec 35

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension	
	From	To								
17.5"	0'	935' <i>1006</i>	13.375"	48	H40	STC	1.52	3.56	7.17	
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.89	
12.25"	3453'	4260'	9.625"	40	J55	LTC	1.16	1.78	16.11	
8.75"	0'	11900'	7"	26	P110	LTC	1.33	1.69	2.14	
6.125"	11318'	19200'	4.5"	13.5	P110	LTC	1.34	1.56	3.18	
BLM Minimum Safety Factor				1.125	1	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
Does casing meet API specifications? 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 intermediate 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?	Y
If yes, are there two strings cemented to surface?	Y
(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 Co, Armstrong 26/35 W0IP Fed Com #2H  
 Sec 26, T25S, R31E  
 SL: 2625' FNL & 330' FEL, Sec 26  
 BHL: 330' FSL & 330' FEL, Sec 35

**3. 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.	495	14.8	2.12	6.3	8	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	700	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	345	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 @ 5541'						
Prod. Stg 2	75	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	320	11.2	2.97	17	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4060'	25%
Liner	11318'	25%

Mewbourne Oil Co, Armstrong 26/35 W0IP Fed Com #2H  
 Sec 26, T25S, R31E  
 SL: 2625' FNL & 330' FEL, Sec 26  
 BHL: 330' FSL & 330' FEL, Sec 35

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	15M 5M	Annular	X	2500#  5000# 10,000
			Blind Ram	X	
			Pipe Ram	X	
			Double Ram		
			Other*		

\*Specify if additional ram is utilized.

*Per Andy Taylor 8/29/17*

BOP/BOPE will be tested by an independent service company to 250 psi low and the high *Chad Weller 8/29/17* pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. <ul style="list-style-type: none"> <li>Provide description here: See attached schematic.</li> </ul>

Mewbourne Oil Co, Armstrong 26/35 W0IP Fed Com #2H

Sec 26, T25S, R31E

SL: 2625' FNL & 330' FEL, Sec 26

BHL: 330' FSL & 330' FEL, Sec 35

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	935'	FW Gel	8.6-8.8	28-34	N/C
935'	4260'	Saturated Brine	10.0-10.2	28-34	N/C
4260'	11318'	Cut Brine	8.6-9.7	28-34	N/C
11318'	19200'	OBM	10.0-13.0	30-40	<10 cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (11318') to surface. Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
X Gamma	11318' (KOP) to TD
Density	
CBL	
Mud log	
PEX	

Mewbourne Oil Co, Armstrong 26/35 W01P Fed Com #2H

Sec 26, T25S, R31E

SL: 2625' FNL & 330' FEL, Sec 26

BHL: 330' FSL & 330' FEL, Sec 35

**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7361 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers. Weighted mud for possible over-pressure in Wolfcamp formation. Weighted mud for shale control & hole stability.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
	H2S is present
X	H2S Plan attached

**8. Other facets of operation**

Is this a walking operation? If yes, describe.

Will be pre-setting casing? If yes, describe.

Attachments

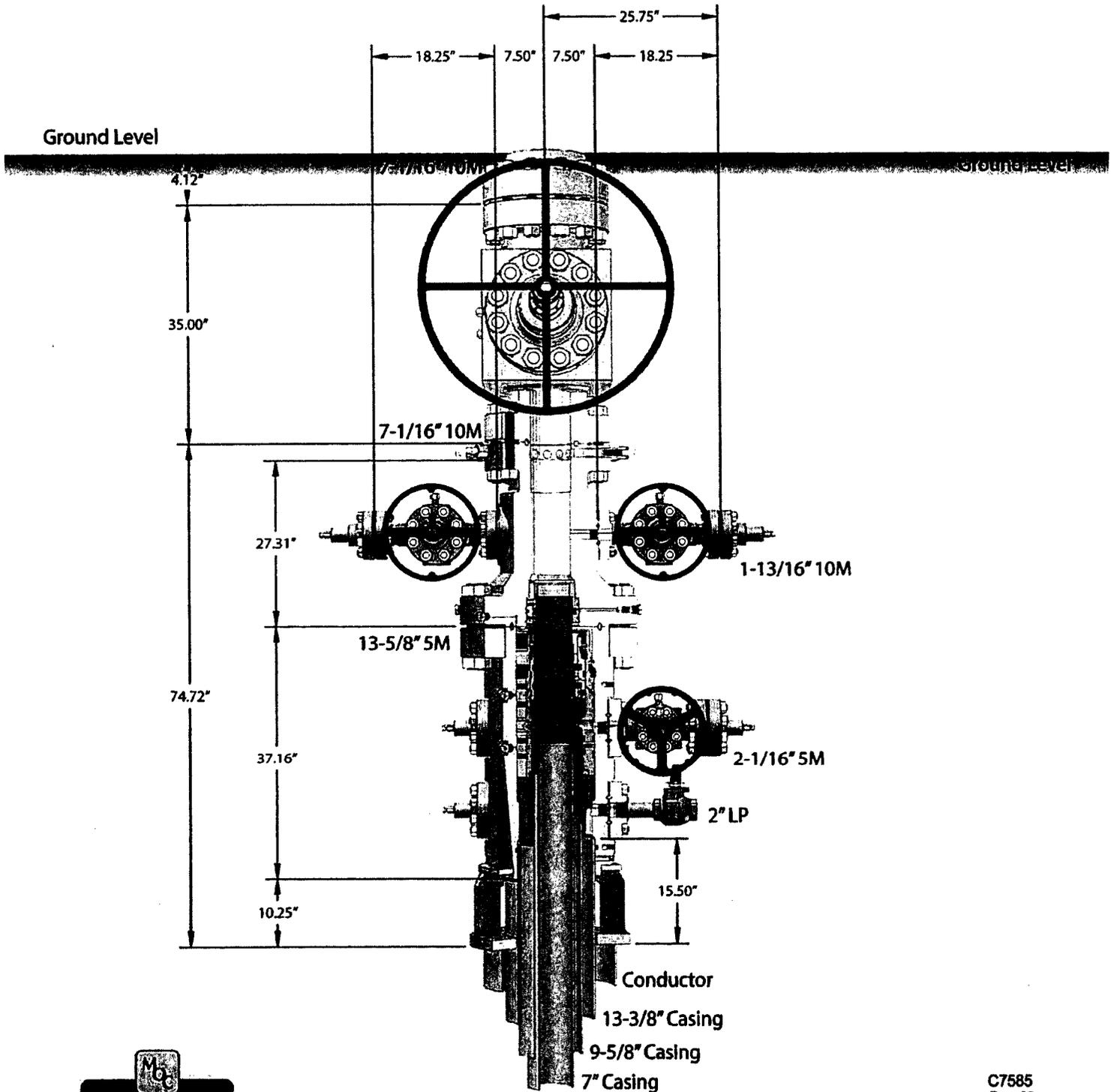
Directional Plan

Other, describe

# CAMERON

A Schlumberger Company

## 13-5/8" MN-DS Wellhead System



*Coupling flange 57" conductor cut-off  
79*

C7585  
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.