AFMSS

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

Sundry Print Report

05/26/2021

Well Name: ARMSTRONG 26/23 W1GG FED COM

Well Location: T25S / R31E / SEC 26 / SWNE / 32.1016682 / -103.746491

County or Parish/State: EDDY / NM

Well Number: 3H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM 016348, NMNM16348

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001546311

Well Status: Approved Application for Permit to Drill

Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 05/06/2021

Time Sundry Submitted: 05:05

Date proposed operation will begin: 05/06/2021

Procedure Description: Mewbourne Oil Co plans to change the production casing design from 7" casing to 7 5/8" 39# P-110 HD-L casing. The attached documents reflect the casing change, setting depth change, and cement volume changes required for this. Also attached is the casing spec sheet for the proposed production casing.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Technical_Data_Sheet_VAM_HDL_7.625_x_39_P110_20210506170448.pdf

Armstrong_26_23_W1GG_Fed_Com_3H_Sundry_20210506170436.doc

Well Name: ARMSTRONG 26/23 W1GG FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.1016682 / -103.746491	**County or Parish/State:** EDDY / NM
Well Number: 3H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM 016348, NMNM16348	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001546311	**Well Status:** Approved Application for Permit to Drill	**Operator:** MEWBOURNE OIL COMPANY

Conditions of Approval

Specialist Review

Armstrong_26_23_W1GG_Fed_Com_3H_Sundry_2160423_COA_OTA_20210520005805.pdf

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: BRADLEY BISHOP

Signed on: MAY 06, 2021 05:05 PM

Name: MEWBOURNE OIL COMPANY

Title: Regulatory

Street Address: PO Box 5270

City: Hobbs **State:** NM

Phone: (575) 393-5905

Email address: bbishop@mewbourne.com

Field Representative

Representative Name: Landon Stallings

Street Address: PO Box 5270

City: Hobbs **State:** NM **Zip:** 88260

Phone: (575)393-5905

Email address: lstallings@mewbourne.com

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: 05/20/2021

Signature: Olabode Thomas Ajibola

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1625 N. French Dr., Hobbs, NM 88240
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
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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 API Number	2 Pool Code	3 Pool Name
30-015-46311	98220	Purple Sage; Wolfcamp Gas

4 Property Code	5 Property Name	6 Well Number
326141	ARMSTRONG 26/23 W1GG FED COM	3H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	3341'

10 Surface Location

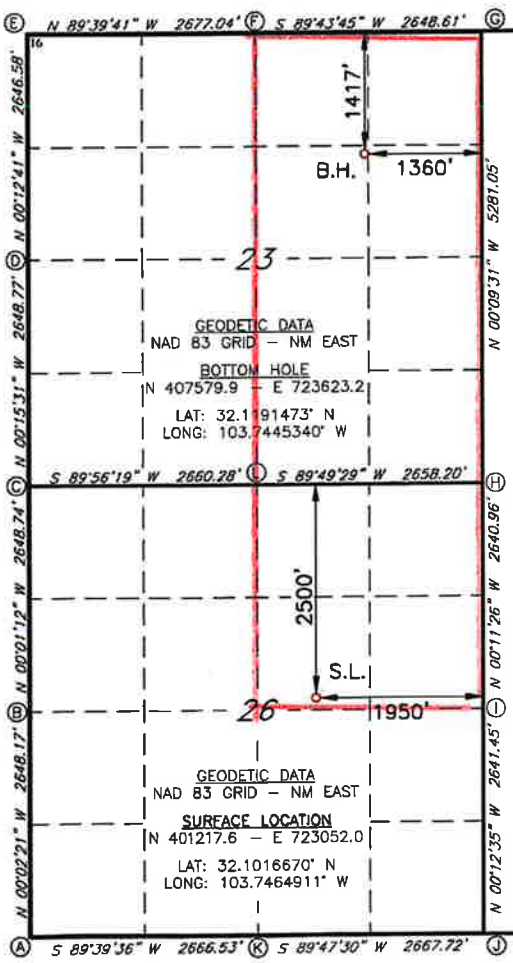
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
G	26	25S	31E		2500	NORTH	1950	EAST	EDDY

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
G	23	25S	31E		1417	NORTH	1360	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
480			

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.



CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1939"
N 398416.8 – E 719679.1

B: FOUND BRASS CAP "1939"
N 401064.4 – E 719677.2

C: CALCULATED CORNER
N 403712.6 – E 719676.3

D: FOUND BRASS CAP "1939"
N 406360.7 – E 719664.4

E: CALCULATED CORNER
N 409006.7 – E 719654.6

F: FOUND BRASS CAP "1939"
N 408990.9 – E 722331.0

G: FOUND 2" PIPE
N 409003.4 – E 724979.0

H: FOUND BRASS CAP "1939"
N 403723.6 – E 724993.6

I: FOUND BRASS CAP "1939"
N 401083.2 – E 725002.4

J: FOUND BRASS CAP "1939"
N 398442.3 – E 725012.1

K: FOUND BRASS CAP "1939"
N 398432.6 – E 722344.9

L: FOUND BRASS CAP "1939"
N 403715.4 – E 722336.0

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 2/11/21
Date

Aaron Maccip
Printed Name

amaccip@mewbourne.com
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

06-09-20
Date of Survey

Signature and Seal of Professional Surveyor: ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

19680
Certificate Number

BH MOVE – 12/09/2020

RRC – Job No.: LS20060289

Mewbourne Oil Company, Armstrong 26/23 W1GG Fed Com #3H
Sec 26, T25S, R31E
SL: 2500' FNL & 1950' FEL (26)
BHL: 1417' FNL & 1360' FEL (23)

Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	950'	13.375"	48	H40	STC	1.77	3.98	7.06	11.86
12.25"	0'	4220'	9.625"	40	J55	LTC	1.17	1.80	3.08	3.73
8.75"	0'	11,557'	7.625"	39	P110	HD-L	1.94	2.21	1.69	2.73
6.125"	11,557'	18,396'	4.5"	13.5	P110	LTC	1.70	1.97	3.66	4.57
				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.	Y
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 3rd 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 2nd 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, Armstrong 26/23 W1GG Fed Com #3H
Sec 26, T25S, R31E
SL: 2500' FNL & 1950' FEL (26)
BHL: 1417' FNL & 1360' FEL (23)

Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	500	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.	640	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.	230	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	280	11.2	2.97	18	16	Class H + 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	4020'	25%
Liner	11,557'	25%

Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	950'	Spud Mud	8.6-8.8	28-34	N/C
950'	4220'	Brine	10.0	28-34	N/C
4220'	11,557'	Cut Brine	8.6-9.7	28-34	N/C
11,557'	12,095	OBM	10.0-12.0	30-40	<10cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

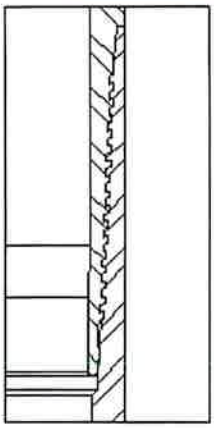
What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring

Technical Specifications

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

	Material
P-110	Grade
110,000	Minimum Yield Strength (psi.)
125,000	Minimum Ultimate Strength (psi.)
	Pipe Dimensions
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.)
	Pipe Body Performance Properties
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.)
	Connection Dimensions
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 (%)
	Connection Performance Properties
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]
	Recommended Torque Values
8,500 (3)	Minimum Final Torque (ft.-lbs.)
9,800 (3)	Maximum Final Torque (ft.-lbs.)

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



(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.

11/28/2018 3:33 PM

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Mewbourne Oil Company**
LEASE NO.:	**NMNM016348**
WELL NAME & NO.:	Armstrong 26-23 W1GG Fed Com 3H
SURFACE HOLE FOOTAGE:	2500'/N & 1950'/E
BOTTOM HOLE FOOTAGE	1417'/N & 1360'/E
LOCATION:	Section 26, T.25 S., R.31 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ 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 **950** 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 **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 minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **4220** feet 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.**
     Excess cement calculates to 18%, additional cement might be required.

   ❖ 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:

   - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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 **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.

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. When the Communitization Agreement number is known, it shall also be on the sign.

OTA05202021

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
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District III
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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

COMMENTS

Action 29552

COMMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 29552
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/27/2021	5/27/2021

District I
1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 29552

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 29552
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	5/27/2021