



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

**Sundry Print Report**

03/03/2021

**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** APD Change

**Date Sundry Submitted:** 02/11/2021

**Time Sundry Submitted:** 04:50

**Date proposed operation will begin:** 02/11/2021

**Procedure Description:** Mewbourne Oil Company requests approval to make the following change(s) to the approved APD: Change well name to Armstrong 26/23 W1GG Fed Com #4H Change BHL to 1417' FNL & 1360' FEL, Sec 23, T25S, R31E Change casing and cement design as detailed in the attachment

Application

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

### Section 1 - General

<b>APD ID:</b> 10400037515	<b>Tie to previous NOS?</b>	<b>Submission Date:</b> 01/16/2019
<b>BLM Office:</b> CARLSBAD	<b>User:</b> Bradley Bishop	<b>Title:</b> Regulatory
<b>Federal/Indian APD:</b> FED	<b>Is the first lease penetrated for production Federal or Indian?</b> FED	
<b>Lease number:</b> NMNM 016348	<b>Lease Acres:</b>	
<b>Surface access agreement in place?</b>	<b>Allotted?</b>	<b>Reservation:</b>
<b>Agreement in place?</b> NO	<b>Federal or Indian agreement:</b>	
<b>Agreement number:</b>		
<b>Agreement name:</b>		
<b>Keep application confidential?</b> Y		
<b>Permitting Agent?</b> NO	<b>APD Operator:</b> MEWBOURNE OIL COMPANY	
<b>Operator letter of designation:</b>		

### Operator Info

**Operator Organization Name:** MEWBOURNE OIL COMPANY

**Operator Address:** PO Box 5270

**Operator PO Box:**

**Operator City:** Hobbs **State:** NM

**Operator Phone:** (575)393-5905

**Operator Internet Address:**

**Zip:** 88240

### Section 2 - Well Information

<b>Well in Master Development Plan?</b> NO	<b>Master Development Plan name:</b>	
<b>Well in Master SUPO?</b> NO	<b>Master SUPO name:</b>	
<b>Well in Master Drilling Plan?</b> NO	<b>Master Drilling Plan name:</b>	
<b>Well Name:</b> ARMSTRONG 26/23 W1GB FED COM	<b>Well Number:</b> 3H	<b>Well API Number:</b> 3001546311
<b>Field/Pool or Exploratory?</b> Field and Pool	<b>Field Name:</b> WELCH	<b>Pool Name:</b> PURPLE SAGE WOLFCAMP GAS
<b>Is the proposed well in an area containing other mineral resources?</b> USEABLE WATER		
<b>Is the proposed well in a Helium production area?</b> N	<b>Use Existing Well Pad?</b> YES	<b>New surface disturbance?</b> Y
<b>Type of Well Pad:</b> MULTIPLE WELL	<b>Multiple Well Pad Name:</b>	<b>Number:</b> 2
<b>Well Class:</b> HORIZONTAL	<b>ARMSTRONG 26/23 GB WELLS</b>	
	<b>Number of Legs:</b>	
<b>Well Work Type:</b> Drill		
<b>Well Type:</b> OIL WELL		
<b>Describe Well Type:</b>		

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Is the proposed well in an area containing other mineral resources? USEABLE WATER

**Well sub-Type:** APPRAISAL

**Describe sub-type:**

**Distance to town:** 25 Miles

**Distance to nearest well:** 50 FT

**Distance to lease line:** 330 FT

**Reservoir well spacing assigned acres Measurement:** 240 Acres

**Well plat:** Armstrong26\_23W1GBFedCom3H\_wellplat\_20181221123950.pdf

**Well work start Date:** 03/08/2019

**Duration:** 60 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:**

**Reference Datum:**

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	2500	FNL	1950	FEL	25S	31E	26	Aliquot SWNE	32.1016682	-103.746491	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 16348	3341	0	0	
KOP Leg #1	2500	FNL	1650	FEL	25S	31E	26	Aliquot SWNE	32.1016637	-103.7455254	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 16348	8217	11562	11558	
PPP Leg #1-1	2641	FNL	1650	FEL	25S	31E	23	Aliquot SWNE	32.1157846	-103.7454817	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC0 61862	8783	17026	12124	
PPP Leg #1-2	2311	FNL	1650	FEL	25S	31E	26	Aliquot SWNE	32.1021832	-103.7455238	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 16348	8642	12042	11983	

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Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
EXIT Leg #1	330	FNL	1650	FEL	25S	31E	23	Aliquot NWNE	32.1221371	-103.745462	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC061862	-8780	19337	12121	
BHL Leg #1	330	FNL	1650	FEL	25S	31E	23	Aliquot NWNE	32.1221371	-103.745462	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC061862	-8780	19337	12121	

### Drilling Plan

#### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1561959	UNKNOWN	3341	27	27		NONE	N
1561960	RUSTLER	2431	899	899	ANHYDRITE, DOLOMITE	USEABLE WATER	N
1561961	TOP SALT	2041	1289	1289	SALT	NONE	N
1561962	BASE OF SALT	-714	4044	4044	SALT	NONE	N
1561966	LAMAR	-963	4293	4293	LIMESTONE	NATURAL GAS, OIL	N
1561963	BELL CANYON	-1002	4332	4332	SANDSTONE	NATURAL GAS, OIL	N
1561967	CHERRY CANYON	-2024	5354	5354	SANDSTONE	NATURAL GAS, OIL	N
1561964	MANZANITA	-2156	5486	5486		NONE	N
1561965	BRUSHY CANYON	-3507	6837	6837	SANDSTONE	NATURAL GAS, OIL	Y
1561968	BONE SPRING	-4939	8269	8269	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1561969	BONE SPRING 1ST	-5980	9310	9310	SANDSTONE	NATURAL GAS, OIL	N
1561970	BONE SPRING 2ND	-6598	9928	9928	SANDSTONE	NATURAL GAS, OIL	N
1561972	BONE SPRING 3RD	-7864	11194	11194	SANDSTONE	NATURAL GAS, OIL	N
1561973	WOLFCAMP	-8310	11640	11640	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

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## Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M

**Rating Depth:** 19337

**Equipment:** Annular, Pipe Ram, Blind Ram

**Requesting Variance?** YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors are not required by manufacturer. A multibowl wellhead is being used. See attached schematic.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high 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.

**Choke Diagram Attachment:**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_5M\_BOPE\_Choke\_Diagram\_20190115102456.pdf

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Flex\_Line\_Specs\_20190115102457.pdf

**BOP Diagram Attachment:**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_5M\_BOPE\_Schematic\_20190115102511.pdf

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Multi\_Bowl\_WH\_20190115102512.pdf

## Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1050	0	1050			1050	H-40	48	ST&C	1.6	3.6	DRY	6.39	DRY	10.3
2	INTERMEDIATE	12.25	9.625	NEW	API	Y	0	4280	0	4280			4280	J-55	36	LT&C	1.13	1.96	DRY	2.88	DRY	3.0
3	PRODUCTION	8.75	7.0	NEW	API	N	0	12463	0	12131			12463	HCP-110	26	LT&C	1.3	1.66	DRY	2.14	DRY	2.0
4	LINER	6.125	4.5	NEW	API	N	11562	19337	11558	12121			7775	P-110	13.5	LT&C	1.3	1.51	DRY	3.22	DRY	4.0

**Casing Attachments**

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**Casing Attachments**

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**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Csg\_Assumptions\_20190115092641.pdf

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**Casing ID:** 2      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Intermediate\_Tapered\_String\_Diagram\_20190115092739.xlsx

**Casing Design Assumptions and Worksheet(s):**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Csg\_Assumptions\_20190115092817.pdf

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**Casing ID:** 3      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Csg\_Assumptions\_20190115092928.pdf

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**Casing Attachments****Casing ID:** 4      **String Type:** LINER**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Csg\_Assumptions\_20190115093044.pdf

**Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	857	565	2.12	12.5	1198	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		857	1050	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3628	710	2.12	12.5	1505	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		3628	4280	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	5540	4080	4862	460	2.12	12.5	975	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		4862	5540	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	5540	5540	1001 1	410	2.12	12.5	869	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		1001 1	1246 3	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		1156 2	1933 7	310	2.97	11.2	921	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

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### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with Onshore Order #2:**

**Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**Describe what will be on location to control well or mitigate other conditions:** Lost circulation material Sweeps Mud scavengers in surface hole

**Describe the mud monitoring system utilized:** Pason, PVT, visual monitoring

### Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1050	4280	SALT SATURATED	10	10							
4280	1213 1	WATER-BASED MUD	8.6	10							
1212 1	1213 1	OIL-BASED MUD	10	12							Mud wieght up to 13.0 ppg may be required for shale control. The highest mud weight needed to balance formation is expected to be 12.0 ppg.
0	1050	SPUD MUD	8.6	8.8							

### Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

GR/CNL will be run from KOP (11,562') to surface.

**List of open and cased hole logs run in the well:**

DS,GR,MWD,MUDLOG

**Coring operation description for the well:**

None

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### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 7570 **Anticipated Surface Pressure:** 4902.71

**Anticipated Bottom Hole Temperature(F):** 165

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_H2S\_Plan\_20190115093753.doc

### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Dir\_Plot\_20190115093831.pdf

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Dir\_Plan\_20190115093830.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_Drlg\_Program\_20190516102716.pdf

Armstrong\_26\_23\_W1GB\_Fed\_Com\_3H\_C101\_20190115093853.pdf

**Other Variance attachment:**

SUPO

### Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

Armstrong26\_23W1GBFedCom3H\_existingroadmap\_20181221124109.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT

**Row(s) Exist?** NO

**ROW ID(s)**

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

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## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

Armstrong26\_23W1GBFedCom3H\_newroadmap\_20181221124154.pdf

**New road type:** RESOURCE

**Length:** 225.59 Feet

**Width (ft.):** 30

**Max slope (%):** 3

**Max grade (%):** 3

**Army Corp of Engineers (ACOE) permit required?** NO

**ACOE Permit Number(s):**

**New road travel width:** 14

**New road access erosion control:** None

**New road access plan or profile prepared?** NO

**New road access plan attachment:**

**Access road engineering design?** NO

**Access road engineering design attachment:**

**Turnout?** Y

**Access surfacing type:** OTHER

**Access topsoil source:** OFFSITE

**Access surfacing type description:** Caliche

**Access onsite topsoil source depth:**

**Offsite topsoil source description:** Topsoil will be on edge of lease road.

**Onsite topsoil removal process:**

**Access other construction information:** None

**Access miscellaneous information:** None

**Number of access turnouts:** 3

**Access turnout map:**

## Drainage Control

**New road drainage crossing:** OTHER

**Drainage Control comments:** None

**Road Drainage Control Structures (DCS) description:** None

**Road Drainage Control Structures (DCS) attachment:**

## Access Additional Attachments

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### Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

Armstrong26\_23W1GBFedCom3H\_existingwellmap\_20181221124331.pdf

### Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Battery is offsite to the southeast of the well pad. 1156' of surface 2-7/8" steel flowline with a working pressure of 125# will be installed from well pad to production facility within 5' of lease road.

**Production Facilities map:**

Armstrong26\_23W1GBFedCom3H\_productionfacilitymap\_20190111100851.pdf

Armstrong26\_23W1GBFedCom3H\_flowlinemap\_20190108075241.pdf

### Section 5 - Location and Types of Water Supply

#### Water Source Table

**Water source type:** IRRIGATION

**Water source use type:**

- SURFACE CASING
- STIMULATION
- DUST CONTROL
- INTERMEDIATE/PRODUCTION CASING

**Source latitude:** 32.53542

**Source longitude:** -103.44969

**Source datum:** NAD83

**Water source permit type:** WATER WELL

**Water source transport method:** TRUCKING

**Source land ownership:** PRIVATE

**Source transportation land ownership:** COMMERCIAL

**Water source volume (barrels):** 2014

**Source volume (acre-feet):** 0.2595907

**Source volume (gal):** 84588

**Water source and transportation map:**

Armstrong26\_23W1GBFedCom3H\_watersourceandtransmap\_20181221124513.pdf

**Water source comments:**

**New water well?** NO

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### New Water Well Info

**Well latitude:**                      **Well Longitude:**                      **Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**                      **Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**                      **Well casing type:**

**Well casing outside diameter (in.):**                      **Well casing inside diameter (in.):**

**New water well casing?**                      **Used casing source:**

**Drilling method:**                      **Drill material:**

**Grout material:**                      **Grout depth:**

**Casing length (ft.):**                      **Casing top depth (ft.):**

**Well Production type:**                      **Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

### Section 6 - Construction Materials

**Using any construction materials:** YES

**Construction Materials description:** Caliche

**Construction Materials source location attachment:**

Armstrong26\_23W1GBFedCom3H\_calichesourceandtransmap\_20181221124525.pdf

### Section 7 - Methods for Handling Waste

**Waste type:** GARBAGE

**Waste content description:** Garbage & trash

**Amount of waste:** 1500                      pounds

**Waste disposal frequency :** One Time Only

**Safe containment description:** Enclosed trash trailer

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL                      **Disposal location ownership:** PRIVATE  
FACILITY

**Disposal type description:**

**Disposal location description:** Waste Management facility in Carlsbad.

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

**Waste type:** SEWAGE

**Waste content description:** Human waste & grey water

**Amount of waste:** 1500 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** 2,000 gallon plastic container

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY      **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** City of Carlsbad Water Treatment facility

**Waste type:** DRILLING

**Waste content description:** Drill cuttings

**Amount of waste:** 940 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY      **Disposal location ownership:** PRIVATE

**Disposal type description:**

**Disposal location description:** NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)**      **Reserve pit width (ft.)**

**Reserve pit depth (ft.)**      **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** NO

**Description of cuttings location**

**Cuttings area length (ft.)**      **Cuttings area width (ft.)**

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<b>Well Number:</b> 3H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM 016348, NMNM16348	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001546311	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MEWBOURNE OIL COMPANY

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

### Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

### Section 9 - Well Site Layout

Well Site Layout Diagram:

Armstrong26\_23W1GBFedCom3H\_wellsitelayout\_20181221124543.pdf

Comments:

### Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: ARMSTRONG 26/23 GB WELLS

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

<b>Well pad proposed disturbance (acres):</b> 3.95	<b>Well pad interim reclamation (acres):</b> 2.024	<b>Well pad long term disturbance (acres):</b> 1.926
<b>Road proposed disturbance (acres):</b> 0.155	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0
<b>Powerline proposed disturbance (acres):</b> 1.025	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance (acres):</b> 0
<b>Pipeline proposed disturbance (acres):</b> 0	<b>Pipeline interim reclamation (acres):</b> 0	<b>Pipeline long term disturbance (acres):</b> 0
<b>Other proposed disturbance (acres):</b> 1.205	<b>Other interim reclamation (acres):</b> 1.205	<b>Other long term disturbance (acres):</b> 1.205
<b>Total proposed disturbance:</b> 6.335	<b>Total interim reclamation:</b> 3.229	<b>Total long term disturbance:</b> 3.131

**Disturbance Comments:** In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

**Reconstruction method:** The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The

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

interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

**Topsoil redistribution:** Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

**Soil treatment:** NA

**Existing Vegetation at the well pad:** Various brush & grasses

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** Various brush & grasses

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:** NA

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** NA

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

**Seed Management**

**Seed Table**

Seed Summary	
Seed Type	Pounds/Acre

**Total pounds/Acre:**

**Seed reclamation attachment:**

**Operator Contact/Responsible Official Contact Info**

**First Name:**

**Last Name:**

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

Phone: (575)393-5905

Email: bbishop@mewbourne.com

**Seedbed prep:** Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

**Seed BMP:** To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

**Seed method:** drilling or broadcasting seed over entire reclaimed area.

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** NA

**Weed treatment plan attachment:**

**Monitoring plan description:** vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

**Monitoring plan attachment:**

**Success standards:** regrowth within 1 full growing season of reclamation.

**Pit closure description:** NA

**Pit closure attachment:**

### Section 11 - Surface Ownership

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:**

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

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

**Fee Owner:** Pecos Valley Artesian Conservation District  
**Phone:** (575)622-7000  
**Fee Owner Address:**  
**Email:**

**Surface use plan certification:** NO  
**Surface use plan certification document:**

**Surface access agreement or bond:** Agreement  
**Surface Access Agreement Need description:** SUA in place  
**Surface Access Bond BLM or Forest Service:**  
**BLM Surface Access Bond number:**  
**USFS Surface access bond number:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:**

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

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

**Fee Owner:** Pecos Valley Artesian Conservation District  
**Phone:** (575)622-7000  
**Fee Owner Address:**  
**Email:**

**Surface use plan certification:** NO  
**Surface use plan certification document:**

**Surface access agreement or bond:** Agreement  
**Surface Access Agreement Need description:** SUA in place  
**Surface Access Bond BLM or Forest Service:**  
**BLM Surface Access Bond number:**  
**USFS Surface access bond number:**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:**

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

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

**Disturbance type:** OTHER

**Describe:** Production Facility

**Surface Owner:**

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

### Section 12 - Other Information

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

### ROW Applications

**SUPO Additional Information:** NONE

**Use a previously conducted onsite?** YES

**Previous Onsite information:** DEC 14 2018 Met w/RRC Surveying & staked location @ 2500' FNL & 1950' FEL, Sec 26, T25S, R31E, Eddy Co., NM. (Elevation @ 3341'). Topsoil W. Reclaim all sides 60'. Offsite battery to the S. Location is in MOA/PA. Will require BLM onsite. Lat.: 32.10166699 N, Long.: -103.74649112 W NAD83. (BPS) DEC 19 2018 Met w/Paul Murphy (BLM-NRS) & Kyle Rybacki (BLM-Cave/Karst). Location approved. (BPS)

### Other SUPO Attachment

Armstrong26\_23W1GBFedCom3H\_interimreclamationdiagram\_20181221124655.pdf

Armstrong26\_23W1GBFedCom3H\_gascapturemap\_20181221124712.pdf

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

PWD

### Section 1 - General

Would you like to address long-term produced water disposal? NO

### Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit specifications:**

**Pit liner description:**

**Pit liner manufacturers information:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule attachment:**

**Lined pit reclamation description:**

**Lined pit reclamation attachment:**

**Leak detection system description:**

**Leak detection system attachment:**

**Lined pit Monitor description:**

**Lined pit Monitor attachment:**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

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

Additional bond information attachment:

### Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

### Section 4 - Injection

Would you like to utilize Injection PWD options? NO

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

**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Injection PWD discharge volume (bbl/day):****Injection well mineral owner:****Injection well type:****Injection well number:****Injection well name:****Assigned injection well API number?****Injection well API number:****Injection well new surface disturbance (acres):****Minerals protection information:****Mineral protection attachment:****Underground Injection Control (UIC) Permit?****UIC Permit attachment:****Section 5 - Surface Discharge****Would you like to utilize Surface Discharge PWD options? NO****Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Surface discharge PWD discharge volume (bbl/day):****Surface Discharge NPDES Permit?****Surface Discharge NPDES Permit attachment:****Surface Discharge site facilities information:****Surface discharge site facilities map:****Section 6 - Other****Would you like to utilize Other PWD options? NO****Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD discharge volume (bbl/day):****Other PWD type description:****Other PWD type attachment:****Have other regulatory requirements been met?****Other regulatory requirements attachment:**

Operator Certification

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

**Operator Certification**

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

**NAME:** Bradley Bishop**Signed on:** 02/11/2021**Title:** Regulatory**Street Address:** PO Box 5270**City:** Hobbs**State:** NM**Zip:** 88260**Phone:** (575)393-5905**Email address:** bbishop@mewbourne.com**Field Representative****Representative Name:** Aaron Massie**Street Address:****City:****State:****Zip:****Phone:****Email address:** amassie@mewbourne.com**NOI Attachments****Procedure Description**

Armstrong\_26\_23\_W1GG\_Fed\_Com\_3H\_Sundry\_20210211164807.doc

Armstrong\_26\_23\_W1GG\_Fed\_Com\_\_20210211164747

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

Armstrong\_26\_23\_W1GG\_Fed\_Com\_20210211164734

Armstrong\_26\_23\_W1GG\_Fed\_Com\_20210211164724

**Conditions of Approval****Additional Reviews**

Armstrong\_26\_23\_W1GG\_Fed\_Com\_3H\_Sundry\_1341492\_COA\_OTA\_20210303110258.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:** BISHOP**Signed on:** FEB 11, 2021 04:48 PM**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:** Aaron Massie**Street Address:****City:****State:****Zip:****Phone:****Email address:** amassie@mewbourne.com**BLM Point of Contact****BLM POC Name:** CHRISTOPHER WALLS**BLM POC Phone:** 5752342234**Disposition:** Approved**Signature:** Chris Walls**BLM POC Title:** Petroleum Engineer**BLM POC Email Address:** cwalls@blm.gov**Disposition Date:** 03/03/2021

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 Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 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 <b>30-015-46311</b>	2 Pool Code <b>98220</b>	3 Pool Name <b>Purple Sage; Wolfcamp Gas</b>
4 Property Code <b>326141</b>	5 Property Name <b>ARMSTRONG 26/23 WIGG FED COM</b>	
7 OGRID NO. <b>14744</b>	8 Operator Name <b>MEWBOURNE OIL COMPANY</b>	6 Well Number <b>3H</b>
		9 Elevation <b>3341'</b>

**10 Surface Location**

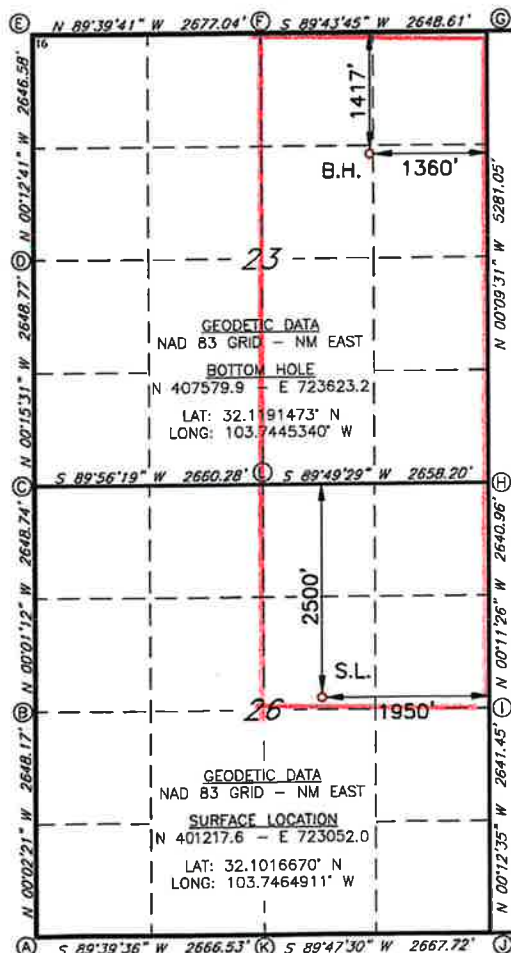
UL or lot no.	Section	Township	Range	Lot Idn	Feet from tie	North/South line	Feet from the	East/West line	County
<b>G</b>	<b>26</b>	<b>25S</b>	<b>31E</b>		<b>2500</b>	<b>NORTH</b>	<b>1950</b>	<b>EAST</b>	<b>EDDY</b>

**11 Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from tie	North/South line	Feet from the	East/West line	County
<b>G</b>	<b>23</b>	<b>25S</b>	<b>31E</b>		<b>1417</b>	<b>NORTH</b>	<b>1360</b>	<b>EAST</b>	<b>EDDY</b>

12 Dedicated Acres <b>480</b>	13 Joint or Infill	14 Consolidation Code	15 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.



**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: *[Signature]* Date: **2/11/21**  
Printed Name: **Aaron Mucisip**  
E-mail Address: **amucisip@newbourne.com**

**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**

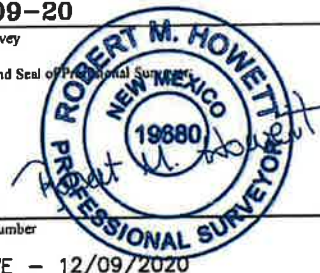
Date of Survey

Signature and Seal of Professional Surveyor

**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		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
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'	12,200'	7"	26	P110	LTC	1.28	1.71	2.18	2.62
6.125"	11,578'	18,396'	4.5"	13.5	P110	LTC	1.41	1.64	3.67	4.58
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?	

**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 ft <sup>3</sup> /sack	H <sub>2</sub> O 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. 1 <sup>st</sup> Stg	375	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
ECP/DV Tool @ 5485'						
Prod. 2 <sup>nd</sup> Stg	70	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	275	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	11,578'	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'	12,059'	Cut Brine	8.6-9.7	28-34	N/C
12,059'	12,125'	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
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## **Mewbourne Oil Company**

**Eddy County, New Mexico NAD 83**

**Armstrong 26/23 W1GG Fed Com #3H**

**Sec 26, T25S, R31E**

**SHL: 2500' FNL & 1950' FEL, Sec 26**

**BHL: 1417' FNL & 1360' FEL, Sec 23**

**Plan: Design #1**

## **Standard Planning Report**

**11 February, 2021**

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Armstrong 26/23 W1GG Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Site:</b>	Armstrong 26/23 W1GG Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 26, T25S, R31E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 1417' FNL & 1360' FEL, Sec 23		
<b>Design:</b>	Design #1		

<b>Project</b>	Eddy County, New Mexico NAD 83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Armstrong 26/23 W1GG Fed Com #3H		
<b>Site Position:</b>		<b>Northing:</b>	401,218.00 usft
<b>From:</b>	Map	<b>Easting:</b>	723,052.00 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32.1016682
		<b>Longitude:</b>	-103.7464910
		<b>Grid Convergence:</b>	0.31 °

<b>Well</b>	Sec 26, T25S, R31E		
<b>Well Position</b>	+N/-S	0.0 usft	<b>Northing:</b> 401,218.00 usft
	+E/-W	0.0 usft	<b>Easting:</b> 723,052.00 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	3,369.0 usft
		<b>Latitude:</b>	32.1016682
		<b>Longitude:</b>	-103.7464910
		<b>Ground Level:</b>	3,341.0 usft

<b>Wellbore</b>	BHL: 1417' FNL & 1360' FEL, Sec 23				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	12/31/2014	7.22	59.96	48,145

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	5.13	

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,546.4	4.93	102.33	4,546.1	-2.3	10.3	2.00	2.00	0.00	102.33	
11,331.4	4.93	102.33	11,306.0	-126.7	579.7	0.00	0.00	0.00	0.00	
11,577.7	0.00	0.00	11,552.0	-129.0	590.0	2.00	-2.00	0.00	180.00	KOP: 2631' FNL & 13
12,480.6	90.29	359.83	12,125.0	446.9	588.3	10.00	10.00	0.00	-0.17	
18,395.9	90.29	359.83	12,095.0	6,362.0	571.0	0.00	0.00	0.00	0.00	BHL: 1417' FNI & 136

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Armstrong 26/23 W1GG Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Site:</b>	Armstrong 26/23 W1GG Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 26, T25S, R31E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 1417' FNL & 1360' FEL, Sec 23		
<b>Design:</b>	Design #1		

## Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buird Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SHL: 2500' FNL &amp; 1950' FEL (26)</b>									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	2.00	102.33	4,400.0	-0.4	1.7	-0.2	2.00	2.00	0.00
4,500.0	4.00	102.33	4,499.8	-1.5	6.8	-0.9	2.00	2.00	0.00
4,546.4	4.93	102.33	4,546.1	-2.3	10.3	-1.3	2.00	2.00	0.00
4,600.0	4.93	102.33	4,599.5	-3.2	14.8	-1.9	0.00	0.00	0.00
4,700.0	4.93	102.33	4,699.1	-5.1	23.2	-3.0	0.00	0.00	0.00
4,800.0	4.93	102.33	4,798.8	-6.9	31.6	-4.1	0.00	0.00	0.00
4,900.0	4.93	102.33	4,898.4	-8.7	40.0	-5.1	0.00	0.00	0.00
5,000.0	4.93	102.33	4,998.0	-10.6	48.4	-6.2	0.00	0.00	0.00
5,100.0	4.93	102.33	5,097.7	-12.4	56.8	-7.3	0.00	0.00	0.00

## Planning Report

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<b>Wellbore:</b>	BHL: 1417' FNL & 1360' FEL, Sec 23		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	4.93	102.33	5,197.3	-14.3	65.2	-8.4	0.00	0.00	0.00
5,300.0	4.93	102.33	5,296.9	-16.1	73.6	-9.4	0.00	0.00	0.00
5,400.0	4.93	102.33	5,396.5	-17.9	82.0	-10.5	0.00	0.00	0.00
5,500.0	4.93	102.33	5,496.2	-19.8	90.4	-11.6	0.00	0.00	0.00
5,600.0	4.93	102.33	5,595.8	-21.6	98.8	-12.7	0.00	0.00	0.00
5,700.0	4.93	102.33	5,695.4	-23.4	107.1	-13.8	0.00	0.00	0.00
5,800.0	4.93	102.33	5,795.1	-25.3	115.5	-14.8	0.00	0.00	0.00
5,900.0	4.93	102.33	5,894.7	-27.1	123.9	-15.9	0.00	0.00	0.00
6,000.0	4.93	102.33	5,994.3	-28.9	132.3	-17.0	0.00	0.00	0.00
6,100.0	4.93	102.33	6,094.0	-30.8	140.7	-18.1	0.00	0.00	0.00
6,200.0	4.93	102.33	6,193.6	-32.6	149.1	-19.1	0.00	0.00	0.00
6,300.0	4.93	102.33	6,293.2	-34.4	157.5	-20.2	0.00	0.00	0.00
6,400.0	4.93	102.33	6,392.8	-36.3	165.9	-21.3	0.00	0.00	0.00
6,500.0	4.93	102.33	6,492.5	-38.1	174.3	-22.4	0.00	0.00	0.00
6,600.0	4.93	102.33	6,592.1	-39.9	182.7	-23.4	0.00	0.00	0.00
6,700.0	4.93	102.33	6,691.7	-41.8	191.0	-24.5	0.00	0.00	0.00
6,800.0	4.93	102.33	6,791.4	-43.6	199.4	-25.6	0.00	0.00	0.00
6,900.0	4.93	102.33	6,891.0	-45.4	207.8	-26.7	0.00	0.00	0.00
7,000.0	4.93	102.33	6,990.6	-47.3	216.2	-27.8	0.00	0.00	0.00
7,100.0	4.93	102.33	7,090.3	-49.1	224.6	-28.8	0.00	0.00	0.00
7,200.0	4.93	102.33	7,189.9	-50.9	233.0	-29.9	0.00	0.00	0.00
7,300.0	4.93	102.33	7,289.5	-52.8	241.4	-31.0	0.00	0.00	0.00
7,400.0	4.93	102.33	7,389.2	-54.6	249.8	-32.1	0.00	0.00	0.00
7,500.0	4.93	102.33	7,488.8	-56.4	258.2	-33.1	0.00	0.00	0.00
7,600.0	4.93	102.33	7,588.4	-58.3	266.6	-34.2	0.00	0.00	0.00
7,700.0	4.93	102.33	7,688.0	-60.1	275.0	-35.3	0.00	0.00	0.00
7,800.0	4.93	102.33	7,787.7	-62.0	283.3	-36.4	0.00	0.00	0.00
7,900.0	4.93	102.33	7,887.3	-63.8	291.7	-37.5	0.00	0.00	0.00
8,000.0	4.93	102.33	7,986.9	-65.6	300.1	-38.5	0.00	0.00	0.00
8,100.0	4.93	102.33	8,086.6	-67.5	308.5	-39.6	0.00	0.00	0.00
8,200.0	4.93	102.33	8,186.2	-69.3	316.9	-40.7	0.00	0.00	0.00
8,300.0	4.93	102.33	8,285.8	-71.1	325.3	-41.8	0.00	0.00	0.00
8,400.0	4.93	102.33	8,385.5	-73.0	333.7	-42.8	0.00	0.00	0.00
8,500.0	4.93	102.33	8,485.1	-74.8	342.1	-43.9	0.00	0.00	0.00
8,600.0	4.93	102.33	8,584.7	-76.6	350.5	-45.0	0.00	0.00	0.00
8,700.0	4.93	102.33	8,684.3	-78.5	358.9	-46.1	0.00	0.00	0.00
8,800.0	4.93	102.33	8,784.0	-80.3	367.3	-47.1	0.00	0.00	0.00
8,900.0	4.93	102.33	8,883.6	-82.1	375.6	-48.2	0.00	0.00	0.00
9,000.0	4.93	102.33	8,983.2	-84.0	384.0	-49.3	0.00	0.00	0.00
9,100.0	4.93	102.33	9,082.9	-85.8	392.4	-50.4	0.00	0.00	0.00
9,200.0	4.93	102.33	9,182.5	-87.6	400.8	-51.5	0.00	0.00	0.00
9,300.0	4.93	102.33	9,282.1	-89.5	409.2	-52.5	0.00	0.00	0.00
9,400.0	4.93	102.33	9,381.8	-91.3	417.6	-53.6	0.00	0.00	0.00
9,500.0	4.93	102.33	9,481.4	-93.1	426.0	-54.7	0.00	0.00	0.00
9,600.0	4.93	102.33	9,581.0	-95.0	434.4	-55.8	0.00	0.00	0.00
9,700.0	4.93	102.33	9,680.7	-96.8	442.8	-56.8	0.00	0.00	0.00
9,800.0	4.93	102.33	9,780.3	-98.6	451.2	-57.9	0.00	0.00	0.00
9,900.0	4.93	102.33	9,879.9	-100.5	459.6	-59.0	0.00	0.00	0.00
10,000.0	4.93	102.33	9,979.5	-102.3	467.9	-60.1	0.00	0.00	0.00
10,100.0	4.93	102.33	10,079.2	-104.1	476.3	-61.2	0.00	0.00	0.00
10,200.0	4.93	102.33	10,178.8	-106.0	484.7	-62.2	0.00	0.00	0.00
10,300.0	4.93	102.33	10,278.4	-107.8	493.1	-63.3	0.00	0.00	0.00
10,400.0	4.93	102.33	10,378.1	-109.7	501.5	-64.4	0.00	0.00	0.00
10,500.0	4.93	102.33	10,477.7	-111.5	509.9	-65.5	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Armstrong 26/23 W1GG Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Site:</b>	Armstrong 26/23 W1GG Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 26, T25S, R31E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 1417' FNL & 1360' FEL, Sec 23		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	4.93	102.33	10,577.3	-113.3	518.3	-66.5	0.00	0.00	0.00
10,700.0	4.93	102.33	10,677.0	-115.2	526.7	-67.6	0.00	0.00	0.00
10,800.0	4.93	102.33	10,776.6	-117.0	535.1	-68.7	0.00	0.00	0.00
10,900.0	4.93	102.33	10,876.2	-118.8	543.5	-69.8	0.00	0.00	0.00
11,000.0	4.93	102.33	10,975.8	-120.7	551.9	-70.8	0.00	0.00	0.00
11,100.0	4.93	102.33	11,075.5	-122.5	560.2	-71.9	0.00	0.00	0.00
11,200.0	4.93	102.33	11,175.1	-124.3	568.6	-73.0	0.00	0.00	0.00
11,300.0	4.93	102.33	11,274.7	-126.2	577.0	-74.1	0.00	0.00	0.00
11,331.4	4.93	102.33	11,306.0	-126.7	579.7	-74.4	0.00	0.00	0.00
11,400.0	3.55	102.33	11,374.4	-127.8	584.6	-75.1	2.00	-2.00	0.00
11,500.0	1.55	102.33	11,474.3	-128.8	589.0	-75.6	2.00	-2.00	0.00
11,577.7	0.00	0.00	11,552.0	-129.0	590.0	-75.7	2.00	-2.00	0.00
<b>KOP: 2631' FNL &amp; 1360' FEL (26)</b>									
11,600.0	2.23	359.83	11,574.3	-128.6	590.0	-75.3	10.00	10.00	0.00
11,700.0	12.23	359.83	11,673.4	-116.0	590.0	-62.8	10.00	10.00	0.00
11,800.0	22.23	359.83	11,768.8	-86.4	589.9	-33.3	10.00	10.00	0.00
11,899.5	32.18	359.83	11,857.2	-41.0	589.7	11.9	10.00	10.00	0.00
<b>FTP: 2541' FNL &amp; 1360' FEL (26)</b>									
11,900.0	32.23	359.83	11,857.6	-40.7	589.7	12.2	10.00	10.00	0.00
12,000.0	42.23	359.83	11,937.1	19.7	589.6	72.3	10.00	10.00	0.00
12,100.0	52.23	359.83	12,004.9	93.0	589.4	145.3	10.00	10.00	0.00
12,200.0	62.23	359.83	12,059.0	177.0	589.1	228.9	10.00	10.00	0.00
12,300.0	72.23	359.83	12,097.7	269.1	588.8	320.6	10.00	10.00	0.00
12,400.0	82.23	359.83	12,119.7	366.5	588.5	417.6	10.00	10.00	0.00
12,480.6	90.29	359.83	12,125.0	446.8	588.3	497.6	10.00	10.00	0.00
<b>LP: 2053' FNL &amp; 1360' FEL (26)</b>									
12,500.0	90.29	359.83	12,124.9	466.2	588.3	516.9	0.02	0.02	0.00
12,600.0	90.29	359.83	12,124.4	566.2	588.0	616.5	0.00	0.00	0.00
12,700.0	90.29	359.83	12,123.9	666.2	587.7	716.1	0.00	0.00	0.00
12,800.0	90.29	359.83	12,123.4	766.2	587.4	815.7	0.00	0.00	0.00
12,900.0	90.29	359.83	12,122.9	866.2	587.1	915.2	0.00	0.00	0.00
13,000.0	90.29	359.83	12,122.4	966.2	586.8	1,014.8	0.00	0.00	0.00
13,100.0	90.29	359.83	12,121.9	1,066.2	586.5	1,114.4	0.00	0.00	0.00
13,200.0	90.29	359.83	12,121.4	1,166.2	586.2	1,214.0	0.00	0.00	0.00
13,300.0	90.29	359.83	12,120.8	1,266.2	585.9	1,313.5	0.00	0.00	0.00
13,400.0	90.29	359.83	12,120.3	1,366.2	585.6	1,413.1	0.00	0.00	0.00
13,500.0	90.29	359.83	12,119.8	1,466.2	585.3	1,512.7	0.00	0.00	0.00
13,600.0	90.29	359.83	12,119.3	1,566.2	585.0	1,612.2	0.00	0.00	0.00
13,700.0	90.29	359.83	12,118.8	1,666.2	584.7	1,711.8	0.00	0.00	0.00
13,800.0	90.29	359.83	12,118.3	1,766.2	584.5	1,811.4	0.00	0.00	0.00
13,900.0	90.29	359.83	12,117.8	1,866.2	584.2	1,911.0	0.00	0.00	0.00
14,000.0	90.29	359.83	12,117.3	1,966.2	583.9	2,010.5	0.00	0.00	0.00
14,100.0	90.29	359.83	12,116.8	2,066.2	583.6	2,110.1	0.00	0.00	0.00
14,200.0	90.29	359.83	12,116.3	2,166.2	583.3	2,209.7	0.00	0.00	0.00
14,300.0	90.29	359.83	12,115.8	2,266.2	583.0	2,309.2	0.00	0.00	0.00
14,400.0	90.29	359.83	12,115.3	2,366.2	582.7	2,408.8	0.00	0.00	0.00
14,500.0	90.29	359.83	12,114.8	2,466.2	582.4	2,508.4	0.00	0.00	0.00
14,600.0	90.29	359.83	12,114.3	2,566.2	582.1	2,608.0	0.00	0.00	0.00
14,700.0	90.29	359.83	12,113.7	2,666.2	581.8	2,707.5	0.00	0.00	0.00
14,800.0	90.29	359.83	12,113.2	2,766.2	581.5	2,807.1	0.00	0.00	0.00
14,900.0	90.29	359.83	12,112.7	2,866.2	581.2	2,906.7	0.00	0.00	0.00
15,000.0	90.29	359.83	12,112.2	2,966.2	580.9	3,006.2	0.00	0.00	0.00
15,100.0	90.29	359.83	12,111.7	3,066.2	580.6	3,105.8	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Armstrong 26/23 W1GG Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Site:</b>	Armstrong 26/23 W1GG Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 26, T25S, R31E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 1417' FNL & 1360' FEL, Sec 23		
<b>Design:</b>	Design #1		

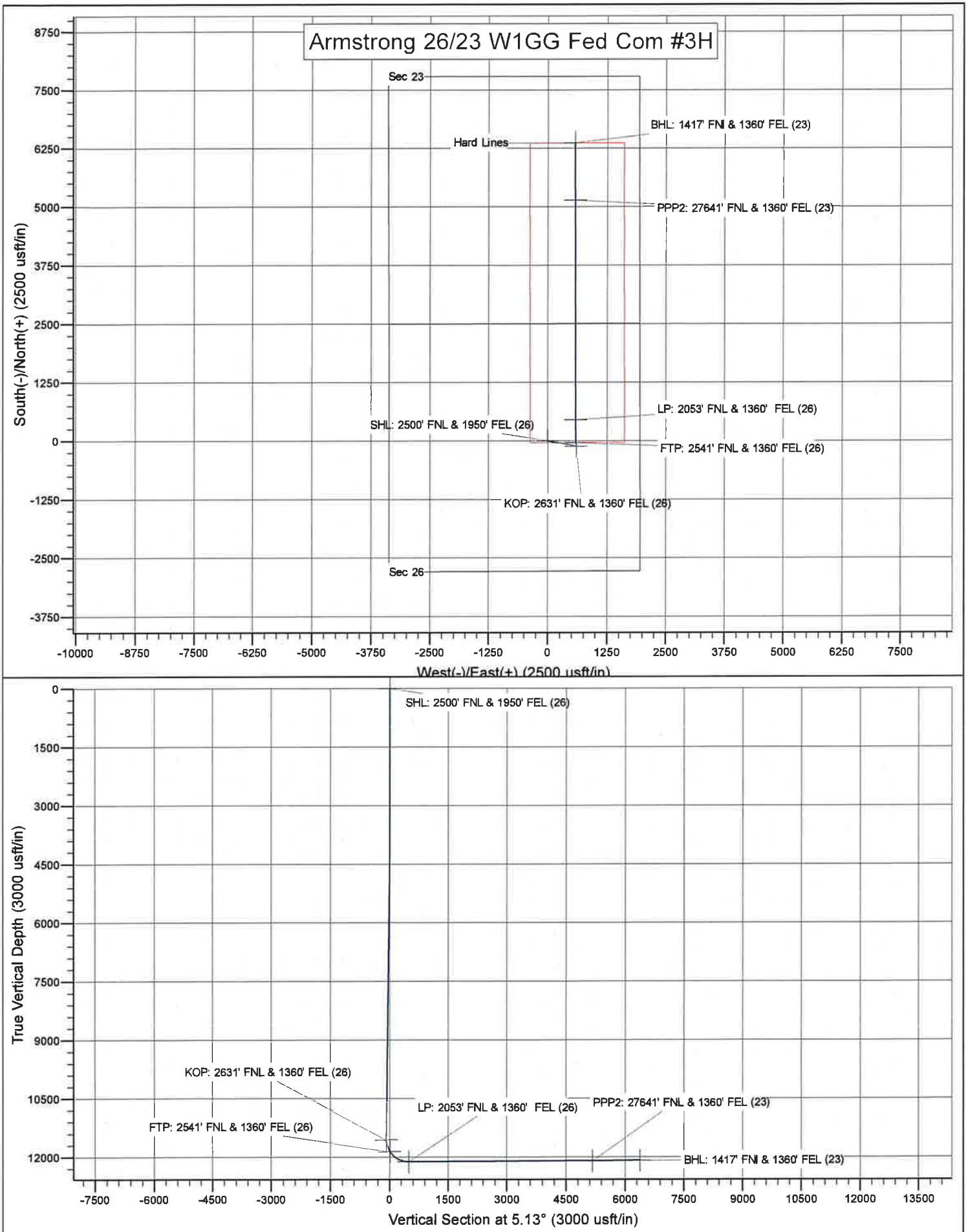
  

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,200.0	90.29	359.83	12,111.2	3,166.2	580.4	3,205.4	0.00	0.00	0.00
15,300.0	90.29	359.83	12,110.7	3,266.2	580.1	3,305.0	0.00	0.00	0.00
15,400.0	90.29	359.83	12,110.2	3,366.2	579.8	3,404.5	0.00	0.00	0.00
15,500.0	90.29	359.83	12,109.7	3,466.2	579.5	3,504.1	0.00	0.00	0.00
15,600.0	90.29	359.83	12,109.2	3,566.2	579.2	3,603.7	0.00	0.00	0.00
15,700.0	90.29	359.83	12,108.7	3,666.2	578.9	3,703.2	0.00	0.00	0.00
15,800.0	90.29	359.83	12,108.2	3,766.2	578.6	3,802.8	0.00	0.00	0.00
15,900.0	90.29	359.83	12,107.7	3,866.2	578.3	3,902.4	0.00	0.00	0.00
16,000.0	90.29	359.83	12,107.2	3,966.2	578.0	4,002.0	0.00	0.00	0.00
16,100.0	90.29	359.83	12,106.6	4,066.2	577.7	4,101.5	0.00	0.00	0.00
16,200.0	90.29	359.83	12,106.1	4,166.2	577.4	4,201.1	0.00	0.00	0.00
16,300.0	90.29	359.83	12,105.6	4,266.2	577.1	4,300.7	0.00	0.00	0.00
16,400.0	90.29	359.83	12,105.1	4,366.2	576.8	4,400.2	0.00	0.00	0.00
16,500.0	90.29	359.83	12,104.6	4,466.2	576.5	4,499.8	0.00	0.00	0.00
16,600.0	90.29	359.83	12,104.1	4,566.2	576.3	4,599.4	0.00	0.00	0.00
16,700.0	90.29	359.83	12,103.6	4,666.2	576.0	4,699.0	0.00	0.00	0.00
16,800.0	90.29	359.83	12,103.1	4,766.2	575.7	4,798.5	0.00	0.00	0.00
16,900.0	90.29	359.83	12,102.6	4,866.2	575.4	4,898.1	0.00	0.00	0.00
17,000.0	90.29	359.83	12,102.1	4,966.2	575.1	4,997.7	0.00	0.00	0.00
17,100.0	90.29	359.83	12,101.6	5,066.2	574.8	5,097.2	0.00	0.00	0.00
17,172.9	90.29	359.83	12,101.2	5,139.0	574.6	5,169.8	0.00	0.00	0.00
PPP2: 27641' FNL & 1360' FEL (23)									
17,200.0	90.29	359.83	12,101.1	5,166.1	574.5	5,196.8	0.00	0.00	0.00
17,300.0	90.29	359.83	12,100.6	5,266.1	574.2	5,296.4	0.00	0.00	0.00
17,400.0	90.29	359.83	12,100.1	5,366.1	573.9	5,396.0	0.00	0.00	0.00
17,500.0	90.29	359.83	12,099.5	5,466.1	573.6	5,495.5	0.00	0.00	0.00
17,600.0	90.29	359.83	12,099.0	5,566.1	573.3	5,595.1	0.00	0.00	0.00
17,700.0	90.29	359.83	12,098.5	5,666.1	573.0	5,694.7	0.00	0.00	0.00
17,800.0	90.29	359.83	12,098.0	5,766.1	572.7	5,794.3	0.00	0.00	0.00
17,900.0	90.29	359.83	12,097.5	5,866.1	572.5	5,893.8	0.00	0.00	0.00
18,000.0	90.29	359.83	12,097.0	5,966.1	572.2	5,993.4	0.00	0.00	0.00
18,100.0	90.29	359.83	12,096.5	6,066.1	571.9	6,093.0	0.00	0.00	0.00
18,200.0	90.29	359.83	12,096.0	6,166.1	571.6	6,192.5	0.00	0.00	0.00
18,300.0	90.29	359.83	12,095.5	6,266.1	571.3	6,292.1	0.00	0.00	0.00
18,395.9	90.29	359.83	12,095.0	6,362.0	571.0	6,387.6	0.00	0.00	0.00
BHL: 1417' FNI & 1360' FEL (23)									

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Armstrong 26/23 W1GG Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3369.0usft (Original Well Elev)
<b>Site:</b>	Armstrong 26/23 W1GG Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 26, T25S, R31E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 1417' FNL & 1360' FEL, Sec 23		
<b>Design:</b>	Design #1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 2500' FNL & 1950' - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	401,218.00	723,052.00	32.1016682	-103.7464910
KOP: 2631' FNL & 1360' - plan hits target center - Point	0.00	0.00	11,552.0	-129.0	590.0	401,089.00	723,642.00	32.1013047	-103.7445879
FTP: 2541' FNL & 1360' - plan hits target center - Point	0.00	0.00	11,857.2	-41.0	589.7	401,177.00	723,641.74	32.1015466	-103.7445872
BHL: 1417' FNL & 1360' I - plan hits target center - Point	0.00	0.00	12,095.0	6,362.0	571.0	407,580.00	723,623.00	32.1191475	-103.7445348
PPP2: 27641' FNL & 1360' F - plan hits target center - Point	0.00	0.00	12,101.2	5,139.0	574.6	406,357.00	723,626.58	32.1157857	-103.7445448
LP: 2053' FNL & 1360' F - plan hits target center - Point	0.00	0.00	12,125.0	446.8	588.3	401,664.83	723,640.31	32.1028876	-103.7445832



## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>Mewbourne Oil Company</b>
<b>LEASE NO.:</b>	<b>NMNM016348</b>
<b>WELL NAME &amp; NO.:</b>	<b>Armstrong 26-23 W1GG Fed Com 3H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>2500'/N &amp; 1950'/E</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>1417'/N &amp; 1360'/E</b>
<b>LOCATION:</b>	<b>Section 26, T.25 S., R.31 E., NMP</b>
<b>COUNTY:</b>	<b>Eddy 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 checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" 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 **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.

**Production casing must be kept fluid filled to meet BLM minimum collapse requirement.**

3. The minimum required fill of cement behind the 7 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 3%, 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 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 **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.

**OTA03032021**

**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**

COMMENTS

Action 20014

**COMMENTS**

Operator:				OGRID:		Action Number:		Action Type:	
	MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM88241		14744		20014		C-103A

Created By	Comment	Comment Date
kpickford	KP GEO Review 3/11/2021	03/11/2021
jagarcia	New property code is 330283	03/11/2021

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CONDITIONS  
  
Action 20014

CONDITIONS OF APPROVAL

Operator:	MEWBOURNE OIL CO	P.O. Box 5270	Hobbs, NM88241	OGRID:	14744	Action Number:	20014	Action Type:	C-103A
OCD Reviewer	Condition								
kpickford	Adhere to previous NMOCD Conditions of Approval								