AFMSS

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

Sundry Print Report

02/11/2021

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**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: 03:28

Date proposed operation will begin: 02/11/2021

Procedure Description: Mewbourne Oil Co. requests approval to make the following change(s) to the approved APD: Change well name to Armstrong 26/23 W0GG Fed Com #4H. Change BHL to 1416' FNL & 1875' FEL, Sec 23, T25S, R31E. Change casing and cement design as detailed in the attachment.

Application

Well Name: ARMSTRONG 26/23 W0GB FED COM

Well Location: T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878

County or Parish/State: EDDY / NM

Well Number: 4H

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: 3001547148

Well Status: Approved Application for Permit to Drill

Operator: MEWBOURNE OIL COMPANY

Section 1 - General

APD ID: 10400037517

Tie to previous NOS?

Submission Date: 01/16/2019

BLM Office: CARLSBAD

User: Bradley Bishop

Title: Regulatory

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM 016348

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: MEWBOURNE OIL COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: PO Box 5270

Zip: 88240

Operator PO Box:

Operator City: Hobbs

State: NM

Operator Phone: (575)393-5905

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: ARMSTRONG 26/23 W0GB FED COM

Well Number: 4H

Well API Number: 3001547148

Field/Pool or Exploratory? Field and Pool

Field Name: WELCH

Pool Name: PURPLE SAGE WOLFCAMP GAS

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

Is the proposed well in a Helium production area? N

Use Existing Well Pad? YES

New surface disturbance? Y

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: ARMSTRONG 26/23 GB WELLS

Number: 2

Well Class: HORIZONTAL

Number of Legs:

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well Name: ARMSTRONG 26/23 W0GB FED COM

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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_23W0GBFedCom4H_wellplat_20181221125550.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	1980	FEL	25S	31E	26	Aliquot SWNE	32.106686	-103.7465878	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 016348	3341	0	0	
KOP Leg #1	2500	FNL	2310	FEL	25S	31E	26	Aliquot SWNE	32.1016681	-103.7476536	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 016348	-8013	11359	11354	
PPP Leg #1-1	2641	FNL	2310	FEL	25S	31E	23	Aliquot NWNE	32.1157862	-103.7476102	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC0 061862	-8463	16768	11804	
PPP Leg #1-2	2311	FNL	2310	FEL	25S	31E	26	Aliquot SWNE	32.1021876	-103.7476052	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 016348	-8393	11799	11734	

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Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM 016348, NMNM16348

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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	2310	FEL	25S	31E	23	Aliquot NWNE	32.1221388	-103.7475907	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC0061862	-8450	19079	11791	
BHL Leg #1	330	FNL	2310	FEL	25S	31E	23	Aliquot NWNE	32.1221388	-103.7475907	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC0061862	-8450	19079	11791	

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1561625	UNKNOWN	3341	27	27		NONE	N
1561626	RUSTLER	2431	899	899	ANHYDRITE, DOLOMITE	USEABLE WATER	N
1561627	TOP SALT	2041	1289	1289	SALT	NONE	N
1561628	BASE OF SALT	-714	4044	4044	SALT	NONE	N
1561632	LAMAR	-963	4293	4293	LIMESTONE	NATURAL GAS, OIL	N
1561629	BELL CANYON	-1002	4332	4332	SANDSTONE	NATURAL GAS, OIL	N
1561633	CHERRY CANYON	-2024	5354	5354	SANDSTONE	NATURAL GAS, OIL	N
1561630	MANZANITA	-2156	5486	5486		NONE	N
1561631	BRUSHY CANYON	-3507	6837	6837	SANDSTONE	NATURAL GAS, OIL	Y
1561634	BONE SPRING	-4939	8269	8269	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1561635	BONE SPRING 1ST	-5980	9310	9310	SANDSTONE	NATURAL GAS, OIL	N
1561636	BONE SPRING 2ND	-6598	9928	9928	SANDSTONE	NATURAL GAS, OIL	N
1561638	BONE SPRING 3RD	-7864	11194	11194	SANDSTONE	NATURAL GAS, OIL	N
1561639	WOLFCAMP	-8310	11640	11640	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

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Type of Well: OIL WELL

Allottee or Tribe Name:

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Unit or CA Number:

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Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 19079

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_W0GB_Fed_Com_4H_Flex_Line_Specs_20190115101847.pdf

Armstrong_26_23_W0GB_Fed_Com_4H_5M_BOPE_Choke_Diagram_20190115101846.pdf

BOP Diagram Attachment:

Armstrong_26_23_W0GB_Fed_Com_4H_5M_BOPE_Schematic_20190115101905.pdf

Armstrong_26_23_W0GB_Fed_Com_4H_Multi_Bowl_WH_20190115101906.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	
1	SURFACE	17.5	13.375	NEW	API	N	0	1050	0	1050			1050	H-40	48	ST&C	1.6	3.6	DRY	10.73	DRY	6.
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.
3	PRODUCTION	8.75	7.0	NEW	API	N	0	12111	0	11831			12111	HCP-110	26	LT&C	1.33	1.7	DRY	2.2	DRY	2.
4	LINER	6.125	4.5	NEW	API	N	11359	19079	11354	11791			7720	P-110	13.5	LT&C	1.34	1.56	DRY	4.05	DRY	3.

Casing Attachments

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Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Armstrong_26_23_W0GB_Fed_Com_4H_Csg_Assumptions_20190115085308.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Armstrong_26_23_W0GB_Fed_Com_4H_Intermediate_Tapered_String_Diagram_20190115085852.xlsx

Casing Design Assumptions and Worksheet(s):

Armstrong_26_23_W0GB_Fed_Com_4H_Csg_Assumptions_20190115085930.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Armstrong_26_23_W0GB_Fed_Com_4H_Csg_Assumptions_20190115090312.pdf

Well Name: ARMSTRONG 26/23 W0GB FED COM

Well Location: T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878

County or Parish/State: EDDY / NM

Well Number: 4H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM 016348, NMNM16348

Unit or CA Name:

Unit or CA Number:

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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_W0GB_Fed_Com_4H_Csg_Assumptions_20190115090419.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	5485	4080	4807	455	2.12	12.5	965	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		4807	5485	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	5485	5485	9662	385	2.12	12.5	816	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		9662	12111	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		11359	19079	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	11831	WATER-BASED MUD	8.6	10							
11791	11831	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 (11,359') 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: 7383 **Anticipated Surface Pressure:** 4786.12

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Armstrong_26_23_W0GB_Fed_Com_4H_H2S_Plan_20190115091311.doc

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Armstrong_26_23_W0GB_Fed_Com_4H_Dir_Plan_20190115091345.pdf
Armstrong_26_23_W0GB_Fed_Com_4H_Dir_Plot_20190115091346.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Armstrong_26_23_W0GB_Fed_Com_4H_C101_20190115091400.pdf
Armstrong_26_23_W0GB_Fed_Com_4H_Drlg_Program_20190516102912.pdf

Other Variance attachment:

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Armstrong26_23W0GBFedCom4H_existingroadmap_20181221125637.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_23W0GBFedCom4H_newroadmap_20181221125701.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_23W0GBFedCom4H_existingwellmap_20181221125728.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_23W0GBFedCom4H_productionfacilitymap_20190111100331.pdf
Armstrong26_23W0GBFedCom4H_flowlinemap_20190108073346.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_23W0GBFedCom4H_watersourceandtransmap_20181221125801.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_23W0GBFedCom4H_calichesourceandtransmap_20181221125828.pdf

Section 7 - Methods for Handling Waste

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

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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 FACILITY **Disposal location ownership:** PRIVATE

Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

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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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_23W0GBFedCom4H_wellsitelayout_20181221125846.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

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

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** 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:**

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** 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: BUREAU OF LAND MANAGEMENT

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:**

Well Name: ARMSTRONG 26/23 W0GB FED COM

Well Location: T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878

County or Parish/State: EDDY / NM

Well Number: 4H

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: 3001547148

Well Status: Approved Application for Permit to Drill

Operator: MEWBOURNE OIL COMPANY

Fee Owner: Pecos Valley Artesian Convservation 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: BUREAU OF LAND MANAGEMENT

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:

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** 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: BUREAU OF LAND MANAGEMENT

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:

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** MEWBOURNE OIL COMPANY

Disturbance type: OTHER

Describe: Production Facility

Surface Owner: BUREAU OF LAND MANAGEMENT

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 & 1980' FEL, Sec 26, T25S, R31E, Eddy Co., NM. (Elevation @ 3341'). Topsoil S. Reclaim all sides 60'. Offsite battery to the S. Approx. 250 of new road to the N to lease road. Location is in MOA/PA. Will require BLM onsite. Lat.: 32.10166727 N, Long.: -103.74658804 W NAD83. (BPS) DEC 19 2018 Met w/Paul Murphy (BLM-NRS) & Kyle Rybacki (BLM-Cave/Karst). Location approved. (BPS)

Other SUPO Attachment

Armstrong26_23W0GBFedCom4H_gascaptureplan_20181221130038.pdf

Armstrong26_23W0GBFedCom4H_interimreclamationdiagram_20181221130015.pdf

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** 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:

Decribe 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:

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** 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:

Decribe 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

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** 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

Well Name: ARMSTRONG 26/23 W0GG FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** MEWBOURNE OIL COMPANY

NOI Attachments

Procedure Description

Armstrong_26_23_W0GG_Fed_Com_4H_Dir_Plan_20210211152540.pdf

Armstrong_26_23_W0GG_Fed_Com_4H_Dir_Plot_20210211152540.pdf

Armstrong_26_23_W0GG_Fed_Com_4H_C_102_20210211152524.pdf

Armstrong_26_23_W0GG_Fed_Com_4H_Sundry_20210211152509.doc

Conditions of Approval

Specialist Review

Armstrong_26_23_W0GG_Fed_Com_4H_COA_20210414114422.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: APR 13, 2021 01:42 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: Andrew Taylor

Street Address:

City: **State:** **Zip:**

Phone:

Email address: ataylor@mewbourne.com

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345998

BLM POC Email Address: ZSTEVENS@BLM.GOV

Disposition: Approved

Disposition Date: 04/14/2021

Signature: Zota Stevens

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** 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: Andrew Taylor

Street Address:

City: **State:** **Zip:**

Phone:

Email address: ataylor@mewbourne.com

NOI Attachments

Procedure Description

Armstrong_26_23_W0GG_Fed_Com_4H_Dir_Plan_20210211152540.pdf

Armstrong_26_23_W0GG_Fed_Com_4H_Dir_Plot_20210211152540.pdf

Well Name: ARMSTRONG 26/23 W0GB FED COM	**Well Location:** T25S / R31E / SEC 26 / SWNE / 32.106686 / -103.7465878	**County or Parish/State:** EDDY / NM
Well Number: 4H	**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: 3001547148	**Well Status:** Approved Application for Permit to Drill	**Operator:** MEWBOURNE OIL COMPANY

Armstrong_26_23_W0GG_Fed_Com_4H_C_102_20210211152524.pdf

Armstrong_26_23_W0GG_Fed_Com_4H_Sundry_20210211152509.doc

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 03:25 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: Andrew Taylor

Street Address:

City: **State:** **Zip:**

Phone:

Email address: ataylor@mewbourne.com

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	2 Pool Code	3 Pool Name
30-015-47148	98220	Purple Sage; Wolfcamp (Gas)
4 Property Code: 328238 (XXXXXXXXX 331678)	5 Property Name: ARMSTRONG 26/23 WOGG FED COM	6 Well Number: 4H
7 OGRID NO.: 14744	8 Operator Name: MEWBOURNE OIL COMPANY	9 Elevation: 3341'

10 Surface Location

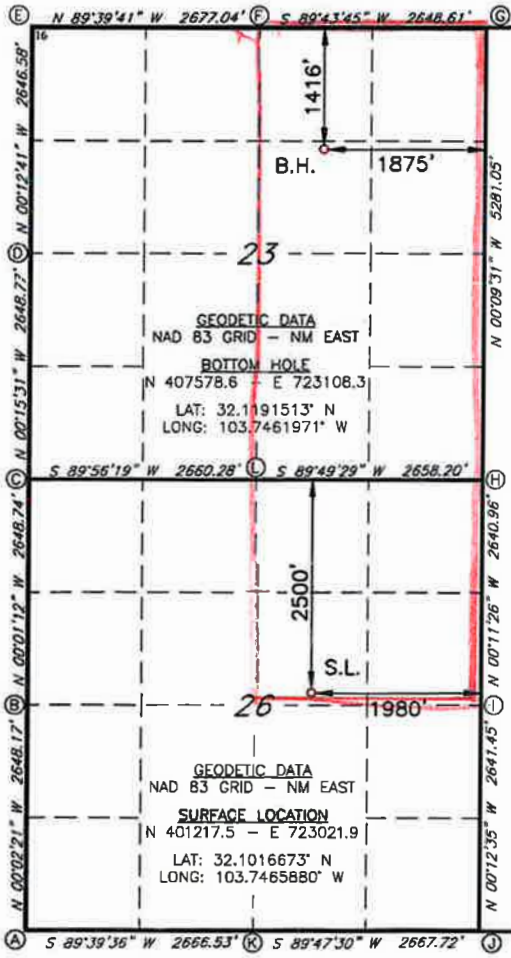
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
G	26	25S	31E		2500	NORTH	1980	EAST	EDDY

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		1416	NORTH	1875	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.

Andrew Taylor 2/11/2021
Signature Date

Andrew Taylor
Printed Name

ataylor@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.: LS20060290

Mewbourne Oil Company, Armstrong 26/23 W0GG Fed Com #4H
Sec 26, T25S, R31E
SL: 2500' FNL & 1980' FEL (26)
BHL: 1416' FNL & 1875' 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'	11,900'	7"	26	P110	LTC	1.31	1.76	2.24	2.68
6.125"	11,242'	18,060'	4.5"	13.5	P110	LTC	1.45	1.68	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 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 W0GG Fed Com #4H
Sec 26, T25S, R31E
SL: 2500' FNL & 1980' FEL (26)
BHL: 1416' FNL & 1875' 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. 1st Stg	350	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. 2nd 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.

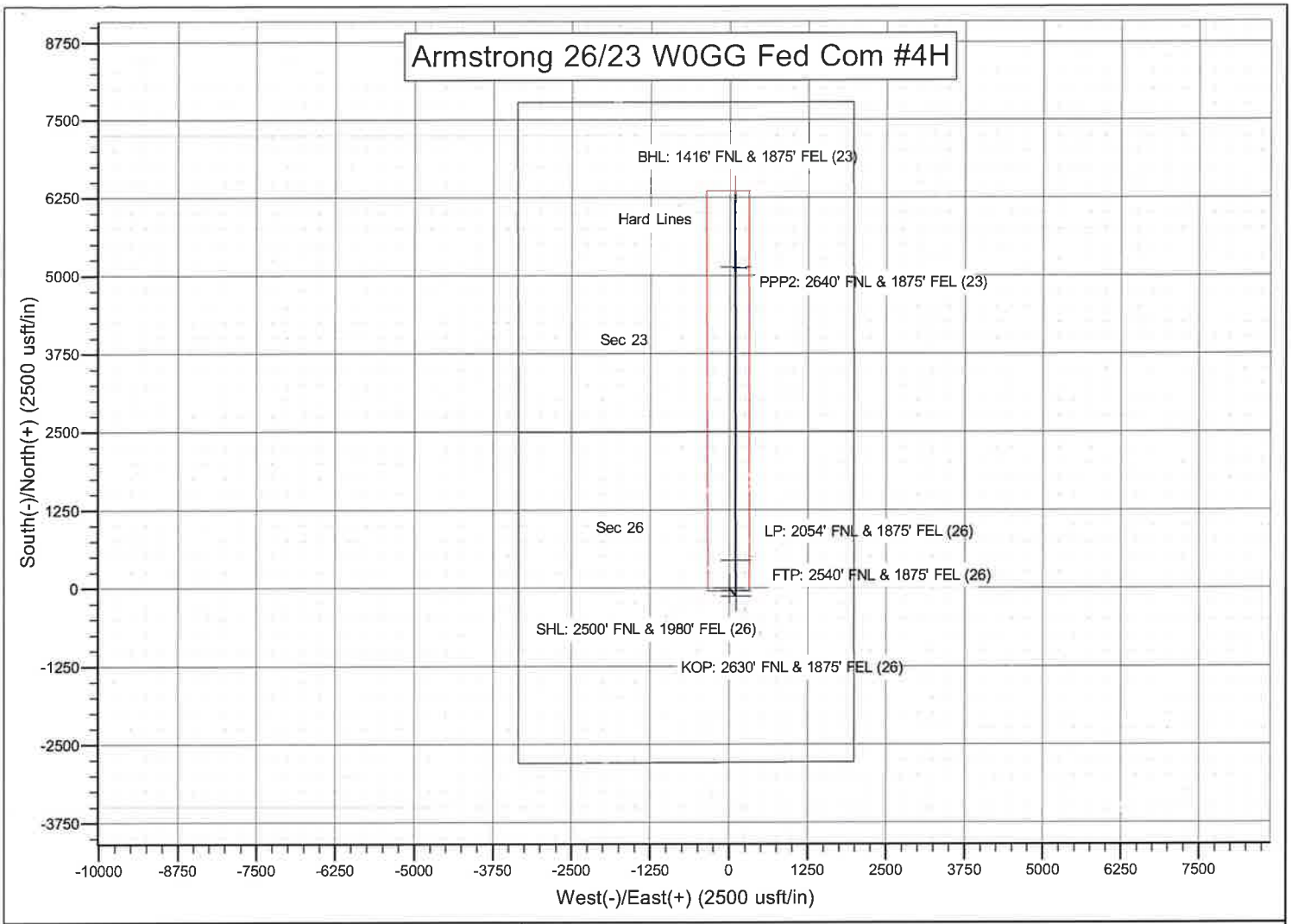
Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4020'	25%
Liner	11,242'	25%

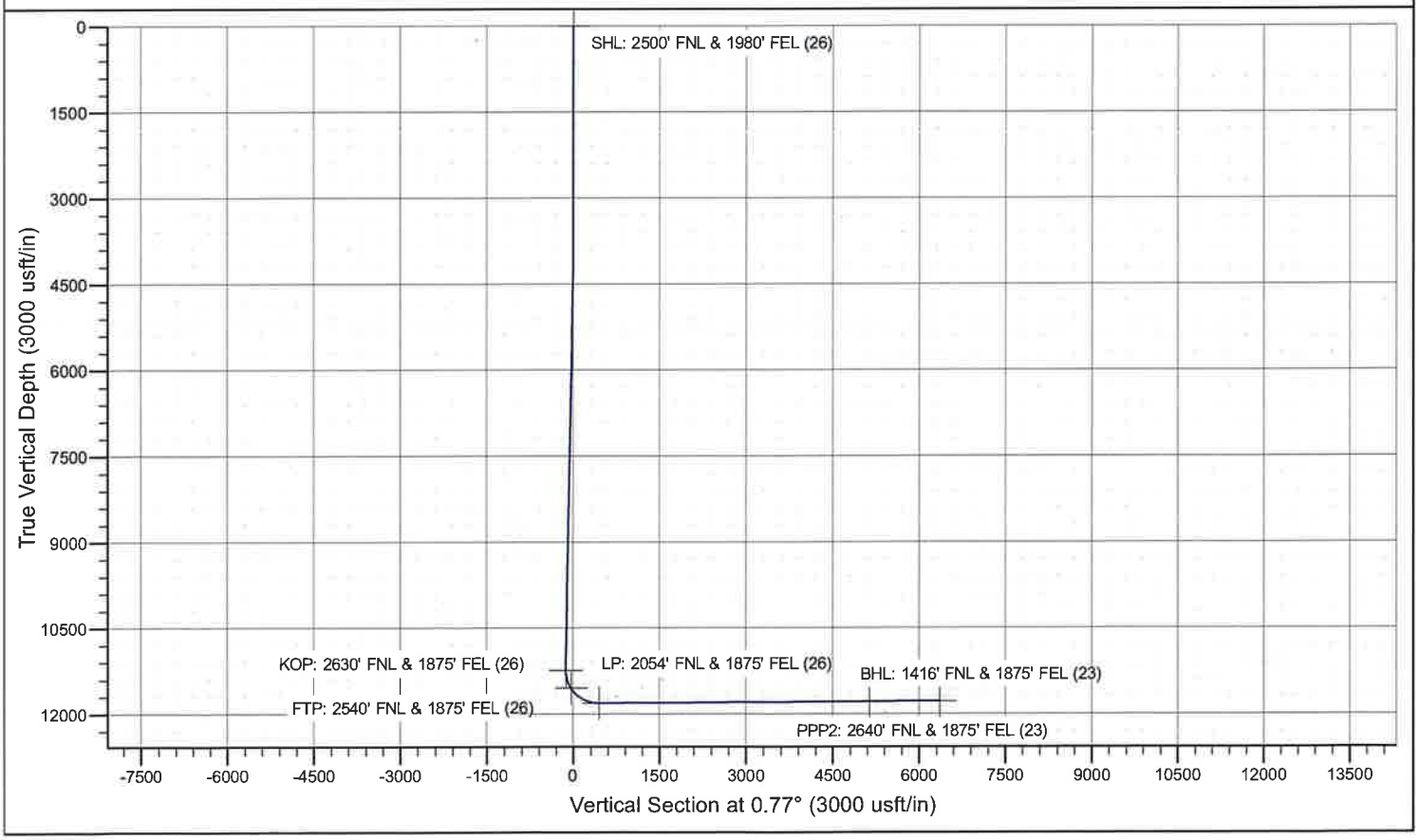
Mud Program

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'	11,763'	Cut Brine	8.6-9.7	28-34	N/C
11,763'	11,813'	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


Armstrong 26/23 W0GG Fed Com #4H
BHL: 1416' FNL & 1875' FEL (23)
Hard Lines
PPP2: 2640' FNL & 1875' FEL (23)
Sec 23
Sec 26
LP: 2054' FNL & 1875' FEL (26)
FTP: 2540' FNL & 1875' FEL (26)
SHL: 2500' FNL & 1980' FEL (26)
KOP: 2630' FNL & 1875' FEL (26)
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SHL: 2500' FNL & 1980' FEL (26)
KOP: 2630' FNL & 1875' FEL (26)
LP: 2054' FNL & 1875' FEL (26)
BHL: 1416' FNL & 1875' FEL (23)
FTP: 2540' FNL & 1875' FEL (26)
PPP2: 2640' FNL & 1875' FEL (23)
True Vertical Depth (3000 usft/in)
Vertical Section at 0.77° (3000 usft/in)

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
Armstrong 26/23 W0GG Fed Com #4H
Sec 26, T25S, R31E
SHL: 2500' FNL & 1980' FEL, Sec 26
BHL: 1416' FNL & 1875' FEL, Sec 23

Plan: Design #1

Standard Planning Report

11 February, 2021

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Armstrong 26/23 W0GG Fed Com #4H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Site:	Armstrong 26/23 W0GG Fed Com #4H	**North Reference:**	Grid
Well:	Sec 26, T25S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1416' FNL & 1875' FEL, Sec 23		
Design:	Design #1		

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

Site	Armstrong 26/23 W0GG Fed Com #4H				
Site Position:		**Northing:**	401,218.00 usft	**Latitude:**	32.1016686
From:	Map	**Easting:**	723,022.00 usft	**Longitude:**	-103.7465878
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.31 °

Well	Sec 26, T25S, R31E					
Well Position	**+N/-S**	0.0 usft	**Northing:**	401,218.00 usft	**Latitude:**	32.1016686
	+E/-W	0.0 usft	**Easting:**	723,022.00 usft	**Longitude:**	-103.7465878
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,369.0 usft	**Ground Level:**	3,341.0 usft

Wellbore	BHL: 1416' FNL & 1875' FEL, Sec 23			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	12/31/2014	7.22	59.96	48,145

Design	Design #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	0.77	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
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	
4,369.7	1.39	141.07	4,369.7	-0.7	0.5	2.00	2.00	0.00	141.07	
11,172.4	1.39	141.07	11,170.3	-129.3	104.5	0.00	0.00	0.00	0.00	
11,242.0	0.00	0.00	11,240.0	-130.0	105.0	2.00	-2.00	0.00	180.00	KOP: 2630' FNL & 18
12,145.0	90.29	359.83	11,813.0	445.9	103.3	10.00	10.00	0.00	-0.17	
18,060.2	90.29	359.83	11,783.0	6,361.0	86.0	0.00	0.00	0.00	0.00	BHL: 1416' FNL & 187

Planning Report

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Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Site:	Armstrong 26/23 W0GG Fed Com #4H	**North Reference:**	Grid
Well:	Sec 26, T25S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1416' FNL & 1875' FEL, Sec 23		
Design:	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 2500' FNL & 1980' FEL (26)									
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
4,369.7	1.39	141.07	4,369.7	-0.7	0.5	-0.7	2.00	2.00	0.00
4,400.0	1.39	141.07	4,400.0	-1.2	1.0	-1.2	0.00	0.00	0.00
4,500.0	1.39	141.07	4,500.0	-3.1	2.5	-3.1	0.00	0.00	0.00
4,600.0	1.39	141.07	4,599.9	-5.0	4.1	-5.0	0.00	0.00	0.00
4,700.0	1.39	141.07	4,699.9	-6.9	5.6	-6.8	0.00	0.00	0.00
4,800.0	1.39	141.07	4,799.9	-8.8	7.1	-8.7	0.00	0.00	0.00
4,900.0	1.39	141.07	4,899.8	-10.7	8.6	-10.6	0.00	0.00	0.00
5,000.0	1.39	141.07	4,999.8	-12.6	10.2	-12.4	0.00	0.00	0.00
5,100.0	1.39	141.07	5,099.8	-14.5	11.7	-14.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Armstrong 26/23 W0GG Fed Com #4H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Site:	Armstrong 26/23 W0GG Fed Com #4H	**North Reference:**	Grid
Well:	Sec 26, T25S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1416' FNL & 1875' FEL, Sec 23		
Design:	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	1.39	141.07	5,199.7	-16.4	13.2	-16.2	0.00	0.00	0.00
5,300.0	1.39	141.07	5,299.7	-18.3	14.7	-18.1	0.00	0.00	0.00
5,400.0	1.39	141.07	5,399.7	-20.1	16.3	-19.9	0.00	0.00	0.00
5,500.0	1.39	141.07	5,499.7	-22.0	17.8	-21.8	0.00	0.00	0.00
5,600.0	1.39	141.07	5,599.6	-23.9	19.3	-23.7	0.00	0.00	0.00
5,700.0	1.39	141.07	5,699.6	-25.8	20.9	-25.5	0.00	0.00	0.00
5,800.0	1.39	141.07	5,799.6	-27.7	22.4	-27.4	0.00	0.00	0.00
5,900.0	1.39	141.07	5,899.5	-29.6	23.9	-29.3	0.00	0.00	0.00
6,000.0	1.39	141.07	5,999.5	-31.5	25.4	-31.2	0.00	0.00	0.00
6,100.0	1.39	141.07	6,099.5	-33.4	27.0	-33.0	0.00	0.00	0.00
6,200.0	1.39	141.07	6,199.5	-35.3	28.5	-34.9	0.00	0.00	0.00
6,300.0	1.39	141.07	6,299.4	-37.2	30.0	-36.8	0.00	0.00	0.00
6,400.0	1.39	141.07	6,399.4	-39.1	31.6	-38.6	0.00	0.00	0.00
6,500.0	1.39	141.07	6,499.4	-41.0	33.1	-40.5	0.00	0.00	0.00
6,600.0	1.39	141.07	6,599.3	-42.8	34.6	-42.4	0.00	0.00	0.00
6,700.0	1.39	141.07	6,699.3	-44.7	36.1	-44.2	0.00	0.00	0.00
6,800.0	1.39	141.07	6,799.3	-46.6	37.7	-46.1	0.00	0.00	0.00
6,900.0	1.39	141.07	6,899.2	-48.5	39.2	-48.0	0.00	0.00	0.00
7,000.0	1.39	141.07	6,999.2	-50.4	40.7	-49.9	0.00	0.00	0.00
7,100.0	1.39	141.07	7,099.2	-52.3	42.2	-51.7	0.00	0.00	0.00
7,200.0	1.39	141.07	7,199.2	-54.2	43.8	-53.6	0.00	0.00	0.00
7,300.0	1.39	141.07	7,299.1	-56.1	45.3	-55.5	0.00	0.00	0.00
7,400.0	1.39	141.07	7,399.1	-58.0	46.8	-57.3	0.00	0.00	0.00
7,500.0	1.39	141.07	7,499.1	-59.9	48.4	-59.2	0.00	0.00	0.00
7,600.0	1.39	141.07	7,599.0	-61.8	49.9	-61.1	0.00	0.00	0.00
7,700.0	1.39	141.07	7,699.0	-63.7	51.4	-63.0	0.00	0.00	0.00
7,800.0	1.39	141.07	7,799.0	-65.5	52.9	-64.8	0.00	0.00	0.00
7,900.0	1.39	141.07	7,898.9	-67.4	54.5	-66.7	0.00	0.00	0.00
8,000.0	1.39	141.07	7,998.9	-69.3	56.0	-68.6	0.00	0.00	0.00
8,100.0	1.39	141.07	8,098.9	-71.2	57.5	-70.4	0.00	0.00	0.00
8,200.0	1.39	141.07	8,198.9	-73.1	59.1	-72.3	0.00	0.00	0.00
8,300.0	1.39	141.07	8,298.8	-75.0	60.6	-74.2	0.00	0.00	0.00
8,400.0	1.39	141.07	8,398.8	-76.9	62.1	-76.1	0.00	0.00	0.00
8,500.0	1.39	141.07	8,498.8	-78.8	63.6	-77.9	0.00	0.00	0.00
8,600.0	1.39	141.07	8,598.7	-80.7	65.2	-79.8	0.00	0.00	0.00
8,700.0	1.39	141.07	8,698.7	-82.6	66.7	-81.7	0.00	0.00	0.00
8,800.0	1.39	141.07	8,798.7	-84.5	68.2	-83.5	0.00	0.00	0.00
8,900.0	1.39	141.07	8,898.7	-86.4	69.7	-85.4	0.00	0.00	0.00
9,000.0	1.39	141.07	8,998.6	-88.2	71.3	-87.3	0.00	0.00	0.00
9,100.0	1.39	141.07	9,098.6	-90.1	72.8	-89.1	0.00	0.00	0.00
9,200.0	1.39	141.07	9,198.6	-92.0	74.3	-91.0	0.00	0.00	0.00
9,300.0	1.39	141.07	9,298.5	-93.9	75.9	-92.9	0.00	0.00	0.00
9,400.0	1.39	141.07	9,398.5	-95.8	77.4	-94.8	0.00	0.00	0.00
9,500.0	1.39	141.07	9,498.5	-97.7	78.9	-96.6	0.00	0.00	0.00
9,600.0	1.39	141.07	9,598.4	-99.6	80.4	-98.5	0.00	0.00	0.00
9,700.0	1.39	141.07	9,698.4	-101.5	82.0	-100.4	0.00	0.00	0.00
9,800.0	1.39	141.07	9,798.4	-103.4	83.5	-102.2	0.00	0.00	0.00
9,900.0	1.39	141.07	9,898.4	-105.3	85.0	-104.1	0.00	0.00	0.00
10,000.0	1.39	141.07	9,998.3	-107.2	86.6	-106.0	0.00	0.00	0.00
10,100.0	1.39	141.07	10,098.3	-109.1	88.1	-107.9	0.00	0.00	0.00
10,200.0	1.39	141.07	10,198.3	-110.9	89.6	-109.7	0.00	0.00	0.00
10,300.0	1.39	141.07	10,298.2	-112.8	91.1	-111.6	0.00	0.00	0.00
10,400.0	1.39	141.07	10,398.2	-114.7	92.7	-113.5	0.00	0.00	0.00
10,500.0	1.39	141.07	10,498.2	-116.6	94.2	-115.3	0.00	0.00	0.00

Planning Report

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Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Site:	Armstrong 26/23 W0GG Fed Com #4H	**North Reference:**	Grid
Well:	Sec 26, T25S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1416' FNL & 1875' FEL, Sec 23		
Design:	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	1.39	141.07	10,598.2	-118.5	95.7	-117.2	0.00	0.00	0.00
10,700.0	1.39	141.07	10,698.1	-120.4	97.3	-119.1	0.00	0.00	0.00
10,800.0	1.39	141.07	10,798.1	-122.3	98.8	-121.0	0.00	0.00	0.00
10,900.0	1.39	141.07	10,898.1	-124.2	100.3	-122.8	0.00	0.00	0.00
11,000.0	1.39	141.07	10,998.0	-126.1	101.8	-124.7	0.00	0.00	0.00
11,100.0	1.39	141.07	11,098.0	-128.0	103.4	-126.6	0.00	0.00	0.00
11,172.4	1.39	141.07	11,170.3	-129.3	104.5	-127.9	0.00	0.00	0.00
11,200.0	0.84	141.07	11,198.0	-129.8	104.8	-128.3	2.00	-2.00	0.00
11,242.0	0.00	0.00	11,240.0	-130.0	105.0	-128.6	2.00	-2.00	0.00
KOP: 2630' FNL & 1875' FEL (26)									
11,300.0	5.80	359.83	11,297.9	-127.1	105.0	-125.6	10.00	10.00	0.00
11,400.0	15.80	359.83	11,396.0	-108.4	104.9	-106.9	10.00	10.00	0.00
11,500.0	25.80	359.83	11,489.3	-72.9	104.8	-71.5	10.00	10.00	0.00
11,567.6	32.55	359.83	11,548.3	-40.0	104.7	-38.6	10.00	10.00	0.00
FTP: 2540' FNL & 1875' FEL (26)									
11,600.0	35.79	359.83	11,575.1	-21.8	104.7	-20.4	10.00	10.00	0.00
11,700.0	45.79	359.83	11,650.7	43.5	104.5	44.9	10.00	10.00	0.00
11,800.0	55.79	359.83	11,713.9	120.9	104.3	122.3	10.00	10.00	0.00
11,900.0	65.79	359.83	11,762.6	208.0	104.0	209.4	10.00	10.00	0.00
12,000.0	75.79	359.83	11,795.5	302.4	103.7	303.7	10.00	10.00	0.00
12,100.0	85.79	359.83	11,811.5	400.9	103.4	402.3	10.00	10.00	0.00
12,145.0	90.29	359.83	11,813.0	445.9	103.3	447.3	10.00	10.00	0.00
LP: 2054' FNL & 1875' FEL (26)									
12,200.0	90.29	359.83	11,812.7	500.9	103.2	502.2	0.00	0.00	0.00
12,300.0	90.29	359.83	11,812.2	600.9	102.9	602.2	0.00	0.00	0.00
12,400.0	90.29	359.83	11,811.7	700.9	102.6	702.2	0.00	0.00	0.00
12,500.0	90.29	359.83	11,811.2	800.9	102.3	802.2	0.00	0.00	0.00
12,600.0	90.29	359.83	11,810.7	900.9	102.0	902.2	0.00	0.00	0.00
12,700.0	90.29	359.83	11,810.2	1,000.9	101.7	1,002.2	0.00	0.00	0.00
12,800.0	90.29	359.83	11,809.7	1,100.9	101.4	1,102.2	0.00	0.00	0.00
12,900.0	90.29	359.83	11,809.2	1,200.9	101.1	1,202.1	0.00	0.00	0.00
13,000.0	90.29	359.83	11,808.7	1,300.9	100.8	1,302.1	0.00	0.00	0.00
13,100.0	90.29	359.83	11,808.2	1,400.9	100.5	1,402.1	0.00	0.00	0.00
13,200.0	90.29	359.83	11,807.6	1,500.9	100.2	1,502.1	0.00	0.00	0.00
13,300.0	90.29	359.83	11,807.1	1,600.9	99.9	1,602.1	0.00	0.00	0.00
13,400.0	90.29	359.83	11,806.6	1,700.9	99.6	1,702.1	0.00	0.00	0.00
13,500.0	90.29	359.83	11,806.1	1,800.9	99.3	1,802.1	0.00	0.00	0.00
13,600.0	90.29	359.83	11,805.6	1,900.9	99.1	1,902.0	0.00	0.00	0.00
13,700.0	90.29	359.83	11,805.1	2,000.9	98.8	2,002.0	0.00	0.00	0.00
13,800.0	90.29	359.83	11,804.6	2,100.9	98.5	2,102.0	0.00	0.00	0.00
13,900.0	90.29	359.83	11,804.1	2,200.9	98.2	2,202.0	0.00	0.00	0.00
14,000.0	90.29	359.83	11,803.6	2,300.9	97.9	2,302.0	0.00	0.00	0.00
14,100.0	90.29	359.83	11,803.1	2,400.9	97.6	2,402.0	0.00	0.00	0.00
14,200.0	90.29	359.83	11,802.6	2,500.9	97.3	2,502.0	0.00	0.00	0.00
14,300.0	90.29	359.83	11,802.1	2,600.9	97.0	2,601.9	0.00	0.00	0.00
14,400.0	90.29	359.83	11,801.6	2,700.9	96.7	2,701.9	0.00	0.00	0.00
14,500.0	90.29	359.83	11,801.1	2,800.9	96.4	2,801.9	0.00	0.00	0.00
14,600.0	90.29	359.83	11,800.5	2,900.9	96.1	2,901.9	0.00	0.00	0.00
14,700.0	90.29	359.83	11,800.0	3,000.9	95.8	3,001.9	0.00	0.00	0.00
14,800.0	90.29	359.83	11,799.5	3,100.9	95.5	3,101.9	0.00	0.00	0.00
14,900.0	90.29	359.83	11,799.0	3,200.9	95.3	3,201.8	0.00	0.00	0.00
15,000.0	90.29	359.83	11,798.5	3,300.9	95.0	3,301.8	0.00	0.00	0.00
15,100.0	90.29	359.83	11,798.0	3,400.9	94.7	3,401.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Armstrong 26/23 W0GG Fed Com #4H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3369.0usft (Original Well Elev)
Site:	Armstrong 26/23 W0GG Fed Com #4H	**North Reference:**	Grid
Well:	Sec 26, T25S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 1416' FNL & 1875' FEL, Sec 23		
Design:	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	11,797.5	3,500.8	94.4	3,501.8	0.00	0.00	0.00
15,300.0	90.29	359.83	11,797.0	3,600.8	94.1	3,601.8	0.00	0.00	0.00
15,400.0	90.29	359.83	11,796.5	3,700.8	93.8	3,701.8	0.00	0.00	0.00
15,500.0	90.29	359.83	11,796.0	3,800.8	93.5	3,801.8	0.00	0.00	0.00
15,600.0	90.29	359.83	11,795.5	3,900.8	93.2	3,901.7	0.00	0.00	0.00
15,700.0	90.29	359.83	11,795.0	4,000.8	92.9	4,001.7	0.00	0.00	0.00
15,800.0	90.29	359.83	11,794.5	4,100.8	92.6	4,101.7	0.00	0.00	0.00
15,900.0	90.29	359.83	11,794.0	4,200.8	92.3	4,201.7	0.00	0.00	0.00
16,000.0	90.29	359.83	11,793.4	4,300.8	92.0	4,301.7	0.00	0.00	0.00
16,100.0	90.29	359.83	11,792.9	4,400.8	91.7	4,401.7	0.00	0.00	0.00
16,200.0	90.29	359.83	11,792.4	4,500.8	91.4	4,501.7	0.00	0.00	0.00
16,300.0	90.29	359.83	11,791.9	4,600.8	91.2	4,601.6	0.00	0.00	0.00
16,400.0	90.29	359.83	11,791.4	4,700.8	90.9	4,701.6	0.00	0.00	0.00
16,500.0	90.29	359.83	11,790.9	4,800.8	90.6	4,801.6	0.00	0.00	0.00
16,600.0	90.29	359.83	11,790.4	4,900.8	90.3	4,901.6	0.00	0.00	0.00
16,700.0	90.29	359.83	11,789.9	5,000.8	90.0	5,001.6	0.00	0.00	0.00
16,800.0	90.29	359.83	11,789.4	5,100.8	89.7	5,101.6	0.00	0.00	0.00
16,835.7	90.29	359.83	11,789.2	5,136.5	89.6	5,137.2	0.00	0.00	0.00
PPP2: 2640' FNL & 1875' FEL (23)									
16,900.0	90.29	359.83	11,788.9	5,200.8	89.4	5,201.6	0.00	0.00	0.00
17,000.0	90.29	359.83	11,788.4	5,300.8	89.1	5,301.5	0.00	0.00	0.00
17,100.0	90.29	359.83	11,787.9	5,400.8	88.8	5,401.5	0.00	0.00	0.00
17,200.0	90.29	359.83	11,787.4	5,500.8	88.5	5,501.5	0.00	0.00	0.00
17,300.0	90.29	359.83	11,786.9	5,600.8	88.2	5,601.5	0.00	0.00	0.00
17,400.0	90.29	359.83	11,786.3	5,700.8	87.9	5,701.5	0.00	0.00	0.00
17,500.0	90.29	359.83	11,785.8	5,800.8	87.6	5,801.5	0.00	0.00	0.00
17,600.0	90.29	359.83	11,785.3	5,900.8	87.3	5,901.4	0.00	0.00	0.00
17,700.0	90.29	359.83	11,784.8	6,000.8	87.1	6,001.4	0.00	0.00	0.00
17,800.0	90.29	359.83	11,784.3	6,100.8	86.8	6,101.4	0.00	0.00	0.00
17,900.0	90.29	359.83	11,783.8	6,200.8	86.5	6,201.4	0.00	0.00	0.00
18,000.0	90.29	359.83	11,783.3	6,300.8	86.2	6,301.4	0.00	0.00	0.00
18,060.2	90.29	359.83	11,783.0	6,361.0	86.0	6,361.6	0.00	0.00	0.00
BHL: 1416' FNL & 1875' FEL (23)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Armstrong 26/23 W0GG Fed Com #4H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3369.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3369.0usft (Original Well Elev)
Site:	Armstrong 26/23 W0GG Fed Com #4H	North Reference:	Grid
Well:	Sec 26, T25S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1416' FNL & 1875' FEL, Sec 23		
Design:	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 & 1980' - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	401,218.00	723,022.00	32.1016686	-103.7465878
KOP: 2630' FNL & 1875' - plan hits target center - Point	0.00	0.00	11,240.0	-130.0	105.0	401,088.00	723,127.00	32.1013097	-103.7462511
FTP: 2540' FNL & 1875' - plan hits target center - Point	0.00	0.00	11,548.3	-40.0	104.7	401,178.00	723,126.73	32.1015571	-103.7462503
BHL: 1416' FNL & 1875' - plan hits target center - Point	0.00	0.00	11,783.0	6,361.0	86.0	407,579.00	723,108.00	32.1191525	-103.7461982
PPP2: 2640' FNL & 187 - plan hits target center - Point	0.00	0.00	11,789.2	5,136.5	89.6	406,354.50	723,111.58	32.1157866	-103.7462082
LP: 2054' FNL & 1875' F - plan hits target center - Point	0.00	0.00	11,813.0	445.9	103.3	401,663.90	723,125.31	32.1028928	-103.7462464

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Mewbourne Oil Co. **OGRID:** 14744 **Date:** 8/13/21

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Armstrong 26/23 W0GG Fed Com 4H		G 26 25S 31E	2500' FNL x 1980' FEL	1500	2500	3500

IV. Central Delivery Point Name: Armstrong 26/23 W0GG Fed Com 4H [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Armstrong 26/23 W0GG Fed Com 4H		10/13/21	11/13/21	12/13/21	12/28/21	12/28/21

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Bradley Bishop
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	8/13/21
Phone:	575-393-5905

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Mewbourne**
LEASE NO.:	**NMNM16348**
LOCATION:	Section 26, T.25 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	**Armstrong 26-23 W0GG Fed Com 4H**
SURFACE HOLE FOOTAGE:	2500'/N & 1980'/E
BOTTOM HOLE FOOTAGE	1416'/N & 1875'/E

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1050** 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 is:
   - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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:
   - 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.

C. 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 **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.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

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

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

b. When the operator proposes to set surface casing with Spudder Rig
   - Notify the BLM when moving in and removing the Spudder Rig.
   - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
   - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
ZS041421

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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 57564

COMMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 57564
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 10/27/2021	10/27/2021

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CONDITIONS

Action 57564

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 57564
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	If the FTP is within 330' of the Horizontal Well Spacing Unit boundary, then an NSL will be required prior to putting the well into production.	10/27/2021
kpickford	Adhere to previous NMOCD Conditions of Approval	10/27/2021
jagarcia	New property code is 331678	10/28/2021