

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 356196

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241		2. OGRID Number 14744
		3. API Number 30-015-54565
4. Property Code 335075	5. Property Name MIGHTY DUCKS 15 16 STATE COM	6. Well No. 525H

7. Surface Location

UL - Lot I	Section 15	Township 22S	Range 27E	Lot Idn I	Feet From 2435	N/S Line S	Feet From 710	E/W Line E	County Eddy
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	------------------	---------------	----------------

8. Proposed Bottom Hole Location

UL - Lot L	Section 16	Township 22S	Range 27E	Lot Idn L	Feet From 1980	N/S Line S	Feet From 100	E/W Line W	County Eddy
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	------------------	---------------	----------------

9. Pool Information

ESPERANZA;BONESPRING	97755
----------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3076
16. Multiple N	17. Proposed Depth 18135	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 1/19/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☐ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	660	510	0
Int1	12.25	9.625	36	1800	410	0
Prod	8.75	7	26	6817	640	1600
Liner1	6.125	4.5	13.5	18135	730	6667

Casing/Cement Program: Additional Comments

MOC proposed to drill & test the Bone Springs formation. H2S rule 118 does not apply because MOC has researched the area & no high concentrations were found. Will have on location & working all H2S safety equipment before Yates formation for safety & insurance purposes. Will stimulate as needed for production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	SCHAFER
Double Ram	5000	5000	SCHAFER
Annular	5000	2500	SCHAFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name: Electronically filed by Monty Whetstone	Approved By: Dean McClure		
Title: Vice President Operations	Title: Petroleum Specialist - A		
Email Address: fking@mewbourne.com	Approved Date: 12/28/2023	Expiration Date: 12/28/2025	
Date: 12/19/2023	Phone: 903-561-2900	Conditions of Approval Attached	

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 30-015-54565		² Pool Code 97755		³ Pool Name ESPERANZA; BONE SPRING					
⁴ Property Code 335075		⁵ Property Name MIGHTY DUCKS 15/16 STATE COM						⁶ Well Number 525H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 3076'	
¹⁰ Surface Location									
UL or lot no. I	Section 15	Township 22S	Range 27E	Lot Idn	Feet from the 2435	North/South line SOUTH	Feet From the 710	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. L	Section 16	Township 22S	Range 27E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 100	East/West line WEST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

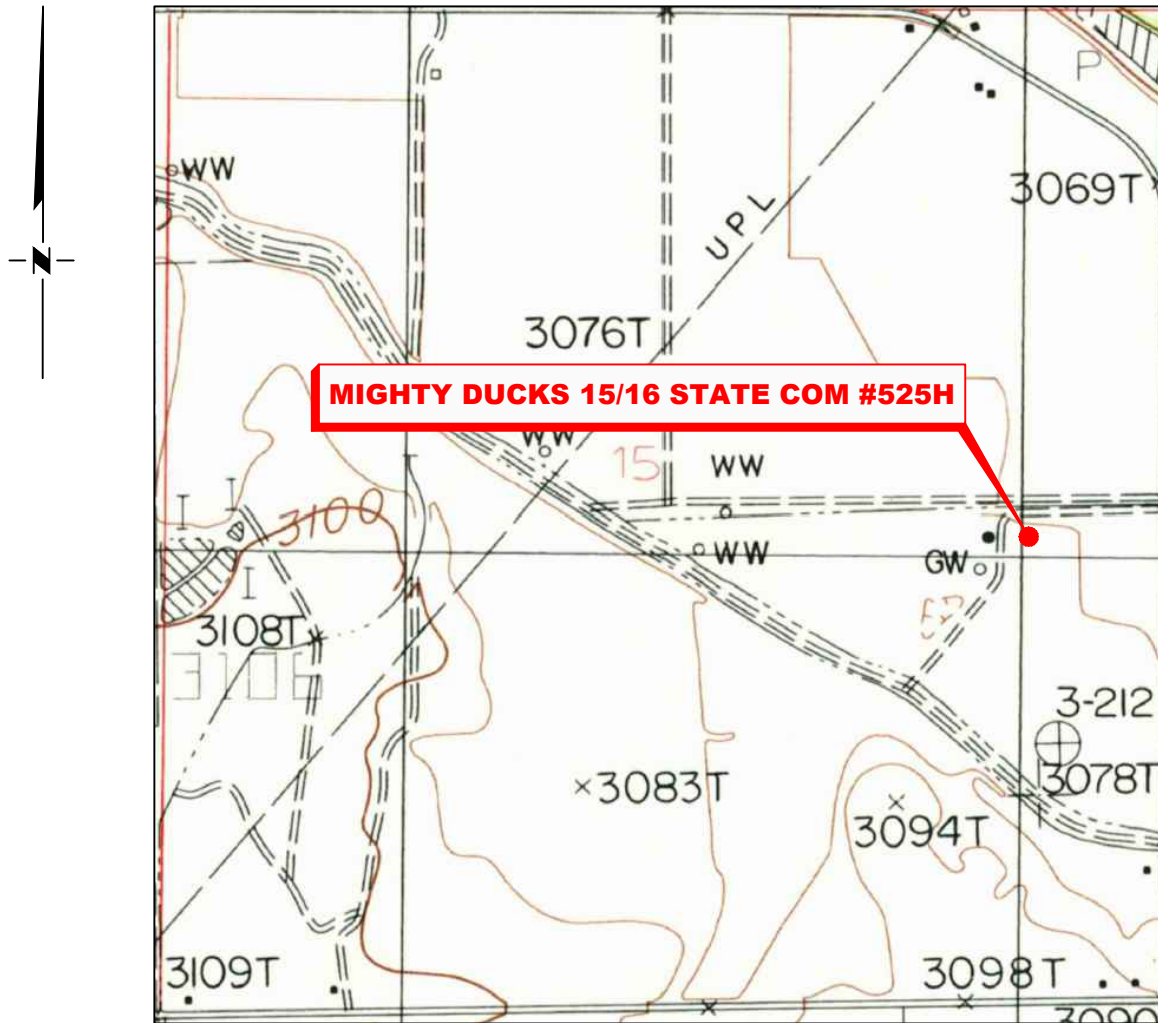
<p>¹⁶</p> <p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND 1/2" REBAR N: 504029.4 - E: 581575.6</p> <p>B: FOUND 1/2" REBAR N: 506671.5 - E: 581568.3</p> <p>C: FOUND 1/2" REBAR N: 509313.0 - E: 581561.0</p> <p>D: FOUND 1/2" REBAR N: 509327.9 - E: 584195.2</p> <p>E: FOUND COTTON SPINDLE N: 509342.6 - E: 586839.8</p> <p>F: FOUND COTTON SPINDLE N: 509339.9 - E: 589478.7</p> <p>G: FOUND ALUMINUM CAP STAMPED "PE & PS 5412" N: 509338.2 - E: 592118.7</p> <p>H: FOUND COTTON SPINDLE N: 504073.7 - E: 592149.6</p> <p>I: FOUND 1/2" REBAR N: 504029.0 - E: 589473.6</p> <p>J: FOUND ALUMINUM CAP STAMPED "8510" N: 503984.3 - E: 586797.8</p> <p>K: FOUND RAILROAD SPIKE N: 504006.8 - E: 584186.3</p> <p>L: FOUND 1/2" REBAR N: 506668.2 - E: 584195.6</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION N: 506496.3 - E: 591425.6</p> <p>LAT: 32.3923222° N LONG: 104.1710579° W</p> <p>BOTTOM HOLE N: 506008.1 - E: 581670.1</p> <p>LAT: 32.3910170° N LONG: 104.2026655° W</p>		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Benjamin Davis</i> 12/18/2023 Signature Date</p> <p>Benjamin Davis Printed Name</p> <p>bdavis@mewbourne.com E-mail Address</p>
<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>12/07/2023 Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>19680 Certificate Number</p>		

The diagram shows a survey plat with a grid. A blue line represents the 'Project Area' and a red line represents the 'Producing Area'. A well location 'BH' is marked with a red dot. Various survey measurements are provided along the boundaries, including bearings and distances. A north arrow is present. The diagram is labeled with '16' in the top left corner and '15' in the center. A scale bar indicates 100 feet. The bottom of the diagram shows a series of bearings and distances: N 89°30'12" W 2611.37', N 89°30'23" W 2612.20', S 89°02'31" W 2676.89', S 89°02'33" W 2676.98', and N 00°09'29" W 2642.13'. A vertical measurement of 1980' is shown on the left, and 2435' is shown on the right. A horizontal measurement of 710' is shown at the bottom right. A small circle with 'SL' is also present.

Job No: LS23121051

LOCATION VERIFICATION MAP

NOT TO SCALE



*SECTION 15, TWP. 22 SOUTH, RGE. 27 EAST,
N. M. P. M., EDDY CO., NEW MEXICO*

OPERATOR: Mewbourne Oil Company
LEASE: Mighty Ducks 15/16 State Com
WELL NO.: 525H
ELEVATION: 3076'

LOCATION: 2435' FSL & 710' FEL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Carlsbad East, NM (1985)

Copyright 2016 – All Rights Reserved

NO.	REVISION	DATE
JOB NO.: LS23121051		
DWG. NO.: 23121051-2		

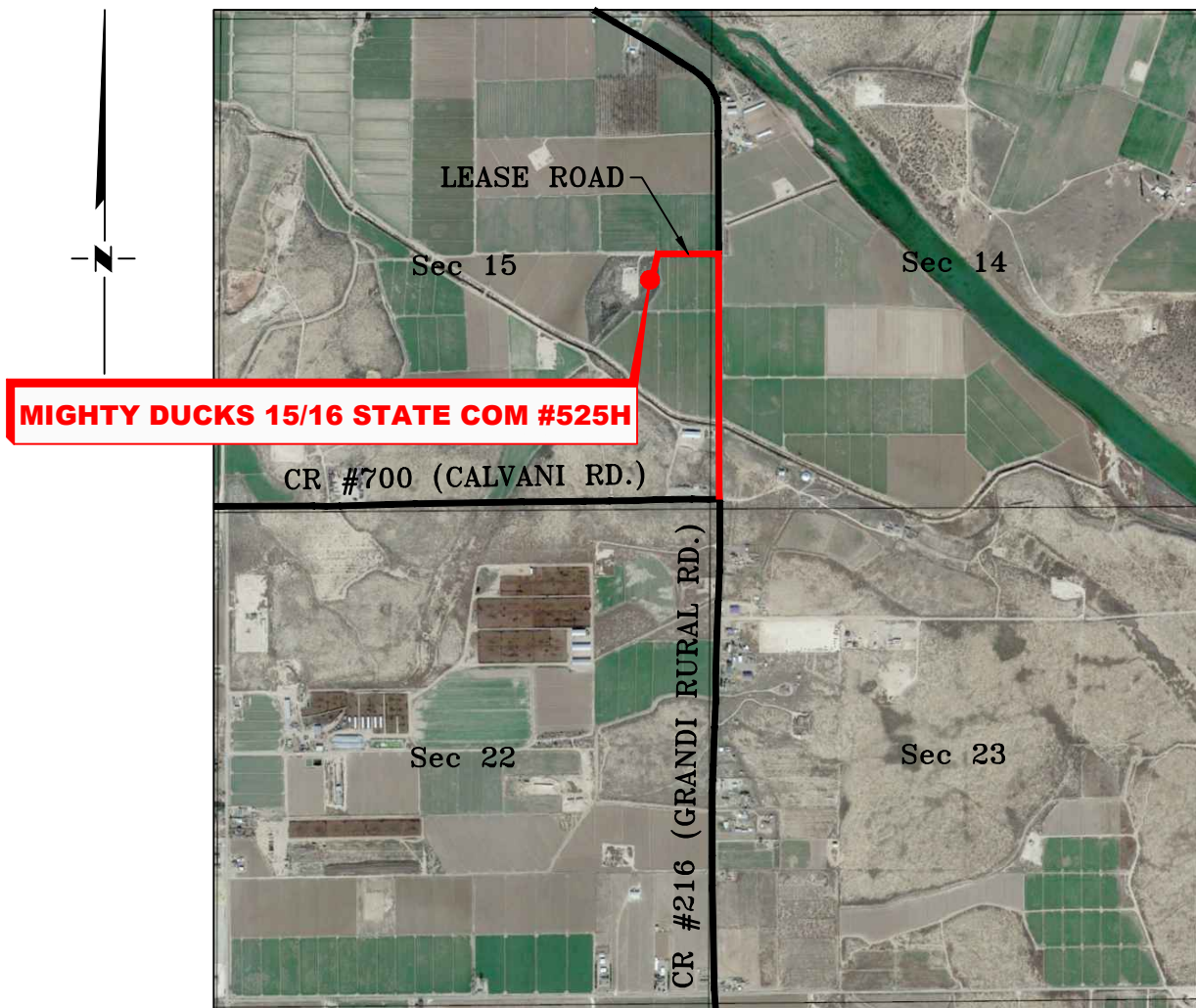


701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N/A
DATE: 12/07/2023
SURVEYED BY: ML/HA
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

VICINITY MAP

NOT TO SCALE



SECTION 15, TWP. 22 SOUTH, RGE. 27 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: Mewbourne Oil Company
LEASE: Mighty Ducks 15/16 State Com
WELL NO.: 525H

LOCATION: 2435' FSL & 710' FEL
ELEVATION: 3076'

Copyright 2016 – All Rights Reserved

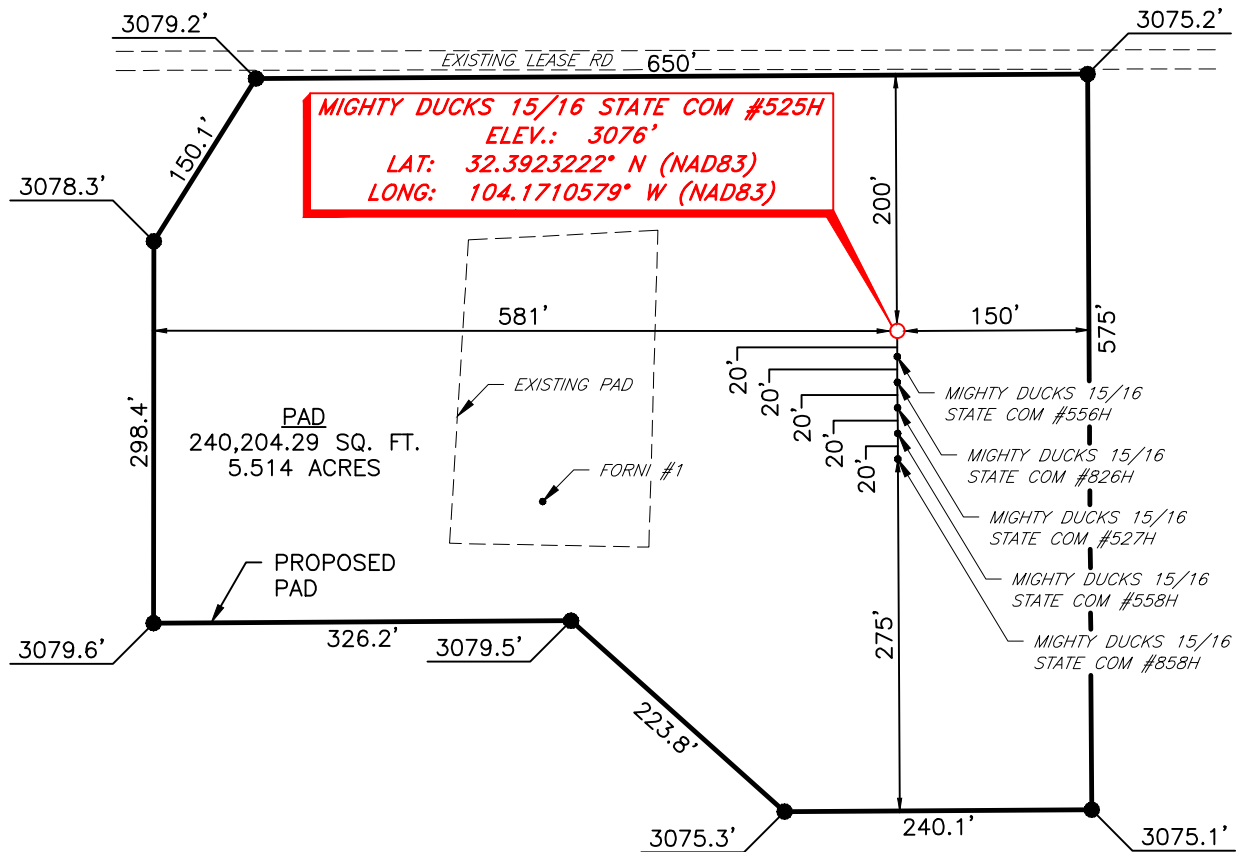
NO.	REVISION	DATE
JOB NO.: LS23121051		
DWG. NO.: 23121051-3		



701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 12/07/2023
SURVEYED BY: ML/HA
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

MEWBOURNE OIL COMPANY
MIGHTY DUCKS 15/16 STATE COM #525H
(2435' FSL & 710' FEL)
SECTION 15, T22S, R27E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR #700 (Calvani Rd.) & CR #216 (Grandi Rural Rd.);
Go North on CR #216 approx. 0.5 miles to a lease road on the left;
Turn left and go West approx. 0.1 miles to location on the left.



SCALE: 1" = 150'
0 75 150
BEARINGS ARE
NAD 83 GRID - NM EAST
DISTANCES ARE
GROUND.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680



Copyright 2016 - All Rights Reserved

NO.	REVISION	DATE
JOB NO.: LS23121051		
DWG. NO.: 23121051-4		



SCALE: 1" = 150'
DATE: 12/07/2023
SURVEYED BY: ML/HA
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form APD Conditions

Permit 356196

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-015-54565
	Well: MIGHTY DUCKS 15 16 STATE COM #525H

OCD Reviewer	Condition
dmcclure	Notify OCD 24 hours prior to casing & cement
dmcclure	Will require a File As Drilled C-102 and a Directional Survey with the C-104
dmcclure	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
dmcclure	Cement is required to circulate on both surface and intermediate1 strings of casing
dmcclure	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
dmcclure	The Operator is to notify NMOCDC by sundry (Form C-103) within ten (10) days of the well being spud
dmcclure	If cement does not circulate on any string, a CBL is required for that string of casing
dmcclure	Operator shall provide written notice to OCD at least 14 days prior to the start of any drilling or completion activities. The notice shall be filed with OCD.Engineer@state.nm.us.
dmcclure	Lateral Portions of wells occurring within 1-mile of the Carlsbad Brine Well backfilled void may not occur at depths less than 5,000 feet.
dmcclure	Completion activities (hydraulic fracturing) within 1-mile of the Carlsbad Brine Well backfilled void may not occur simultaneously. OCD may require the completion schedule to be modified if multiple completions are planned to occur simultaneously.

Mewbourne Oil Company, Mighty Ducks 15/16 State Com #525H**Sec 15, T22S, R27E****SHL: 2435' FSL 710' FEL (Sec 15)****BHL: 1980' FSL 100' FWL (Sec 16)**

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Mighty Ducks 15/16 State Com	#525H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	14	22	27	-	1980'	FSL	473'	FWL	Eddy
Latitude					Longitude			NAD	
32.3911016					-104.1672197			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	15	22	27	-	1980'	FSL	100'	FEL	Eddy
Latitude					Longitude			NAD	
32.3910975					-104.1690760				

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	16	22	27	-	1980'	FSL	100'	FWL	Eddy
Latitude					Longitude			NAD	
32.3910188					-104.2026656			83	

Is this well the defining well for the Horizontal Spacing Unit?

N

Is this well an infill well?

Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
NA

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Mighty Duck 15/16 State Com	826H

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Mighty Ducks 15/16 State Com #525H

Sec 15, T22S, R27E

SHL: 2435' FSL & 710' FEL (Sec 15)

BHL: 1980' FSL & 100' FWL (Sec 16)

Plan: Design #1

Standard Planning Report

12 December, 2023

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Mighty Ducks 15/16 State Com #525H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3098.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3098.0usft (Original Well Elev)
Site:	Mighty Ducks 15/16 State Com #525H	North Reference:	Grid
Well:	Sec 15, T22S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (Sec 16)		
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		Mighty Ducks 15/16 State Com #525H			
Site Position:		Northing:	506,496.90 usft	Latitude:	32.3923240
From:	Map	Easting:	591,425.40 usft	Longitude:	-104.1710585
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well	Sec 15, T22S, R27E					
Well Position	+N/-S	0.0 usft	Northing:	506,496.90 usft	Latitude:	32.3923240
	+E/-W	0.0 usft	Easting:	591,425.40 usft	Longitude:	-104.1710585
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,098.0 usft	Ground Level:	3,070.0 usft
Grid Convergence:		0.09 °				

Wellbore	BHL: 1980' FSL & 100' FWL (Sec 16)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.44	60.15	48,275.71304102

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	267.14

Plan Survey Tool Program	Date	12/12/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	0.0	Design #1 (BHL: 1980' FSL & 100		

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	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Mighty Ducks 15/16 State Com #525H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3098.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3098.0usft (Original Well Elev)
Site:	Mighty Ducks 15/16 State Com #525H	North Reference:	Grid
Well:	Sec 15, T22S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (Sec 16)		
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: 2435' FSL & 710' FEL (Sec 15)									
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
660.0	0.00	0.00	660.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.80	110.48	700.0	-0.1	0.3	-0.3	2.00	2.00	0.00
800.0	2.80	110.48	799.9	-1.2	3.2	-3.1	2.00	2.00	0.00
900.0	4.80	110.48	899.7	-3.5	9.4	-9.2	2.00	2.00	0.00
1,000.0	6.80	110.48	999.2	-7.1	18.9	-18.5	2.00	2.00	0.00
1,100.0	8.80	110.48	1,098.3	-11.8	31.6	-31.0	2.00	2.00	0.00
1,200.0	10.80	110.48	1,196.8	-17.8	47.5	-46.6	2.00	2.00	0.00
1,300.0	12.80	110.48	1,294.7	-24.9	66.7	-65.4	2.00	2.00	0.00
1,318.9	13.18	110.48	1,313.1	-26.4	70.7	-69.3	2.00	2.00	0.00
1,400.0	13.18	110.48	1,392.1	-32.9	88.0	-86.2	0.00	0.00	0.00
1,500.0	13.18	110.48	1,489.4	-40.8	109.3	-107.2	0.00	0.00	0.00
1,600.0	13.18	110.48	1,586.8	-48.8	130.7	-128.1	0.00	0.00	0.00
1,700.0	13.18	110.48	1,684.2	-56.8	152.1	-149.0	0.00	0.00	0.00
1,800.0	13.18	110.48	1,781.5	-64.8	173.4	-170.0	0.00	0.00	0.00
1,900.0	13.18	110.48	1,878.9	-72.8	194.8	-190.9	0.00	0.00	0.00
2,000.0	13.18	110.48	1,976.3	-80.7	216.1	-211.8	0.00	0.00	0.00
2,100.0	13.18	110.48	2,073.6	-88.7	237.5	-232.8	0.00	0.00	0.00
2,200.0	13.18	110.48	2,171.0	-96.7	258.8	-253.7	0.00	0.00	0.00
2,300.0	13.18	110.48	2,268.4	-104.7	280.2	-274.6	0.00	0.00	0.00
2,400.0	13.18	110.48	2,365.7	-112.7	301.6	-295.6	0.00	0.00	0.00
2,500.0	13.18	110.48	2,463.1	-120.6	322.9	-316.5	0.00	0.00	0.00
2,600.0	13.18	110.48	2,560.5	-128.6	344.3	-337.4	0.00	0.00	0.00
2,700.0	13.18	110.48	2,657.8	-136.6	365.6	-358.3	0.00	0.00	0.00
2,800.0	13.18	110.48	2,755.2	-144.6	387.0	-379.3	0.00	0.00	0.00
2,900.0	13.18	110.48	2,852.6	-152.5	408.3	-400.2	0.00	0.00	0.00
3,000.0	13.18	110.48	2,949.9	-160.5	429.7	-421.1	0.00	0.00	0.00
3,100.0	13.18	110.48	3,047.3	-168.5	451.1	-442.1	0.00	0.00	0.00
3,200.0	13.18	110.48	3,144.7	-176.5	472.4	-463.0	0.00	0.00	0.00
3,300.0	13.18	110.48	3,242.0	-184.5	493.8	-483.9	0.00	0.00	0.00
3,400.0	13.18	110.48	3,339.4	-192.4	515.1	-504.9	0.00	0.00	0.00
3,500.0	13.18	110.48	3,436.8	-200.4	536.5	-525.8	0.00	0.00	0.00
3,600.0	13.18	110.48	3,534.1	-208.4	557.8	-546.7	0.00	0.00	0.00
3,700.0	13.18	110.48	3,631.5	-216.4	579.2	-567.7	0.00	0.00	0.00
3,800.0	13.18	110.48	3,728.9	-224.3	600.6	-588.6	0.00	0.00	0.00
3,900.0	13.18	110.48	3,826.2	-232.3	621.9	-609.5	0.00	0.00	0.00
4,000.0	13.18	110.48	3,923.6	-240.3	643.3	-630.5	0.00	0.00	0.00
4,100.0	13.18	110.48	4,021.0	-248.3	664.6	-651.4	0.00	0.00	0.00
4,200.0	13.18	110.48	4,118.3	-256.3	686.0	-672.3	0.00	0.00	0.00
4,300.0	13.18	110.48	4,215.7	-264.2	707.3	-693.3	0.00	0.00	0.00
4,400.0	13.18	110.48	4,313.1	-272.2	728.7	-714.2	0.00	0.00	0.00
4,500.0	13.18	110.48	4,410.4	-280.2	750.1	-735.1	0.00	0.00	0.00
4,600.0	13.18	110.48	4,507.8	-288.2	771.4	-756.0	0.00	0.00	0.00
4,700.0	13.18	110.48	4,605.2	-296.2	792.8	-777.0	0.00	0.00	0.00
4,800.0	13.18	110.48	4,702.5	-304.1	814.1	-797.9	0.00	0.00	0.00
4,900.0	13.18	110.48	4,799.9	-312.1	835.5	-818.8	0.00	0.00	0.00
5,000.0	13.18	110.48	4,897.3	-320.1	856.8	-839.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Mighty Ducks 15/16 State Com #525H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3098.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3098.0usft (Original Well Elev)
Site:	Mighty Ducks 15/16 State Com #525H	North Reference:	Grid
Well:	Sec 15, T22S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (Sec 16)		
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)	
5,100.0	13.18	110.48	4,994.6	-328.1	878.2	-860.7	0.00	0.00	0.00	
5,200.0	13.18	110.48	5,092.0	-336.0	899.6	-881.6	0.00	0.00	0.00	
5,300.0	13.18	110.48	5,189.4	-344.0	920.9	-902.6	0.00	0.00	0.00	
5,400.0	13.18	110.48	5,286.7	-352.0	942.3	-923.5	0.00	0.00	0.00	
5,500.0	13.18	110.48	5,384.1	-360.0	963.6	-944.4	0.00	0.00	0.00	
5,600.0	13.18	110.48	5,481.5	-368.0	985.0	-965.4	0.00	0.00	0.00	
5,700.0	13.18	110.48	5,578.8	-375.9	1,006.3	-986.3	0.00	0.00	0.00	
5,800.0	13.18	110.48	5,676.2	-383.9	1,027.7	-1,007.2	0.00	0.00	0.00	
5,900.0	13.18	110.48	5,773.6	-391.9	1,049.1	-1,028.2	0.00	0.00	0.00	
6,000.0	13.18	110.48	5,870.9	-399.9	1,070.4	-1,049.1	0.00	0.00	0.00	
6,100.0	13.18	110.48	5,968.3	-407.8	1,091.8	-1,070.0	0.00	0.00	0.00	
6,208.4	13.18	110.48	6,073.9	-416.5	1,114.9	-1,092.7	0.00	0.00	0.00	
6,300.0	11.35	110.48	6,163.3	-423.3	1,133.1	-1,110.6	2.00	-2.00	0.00	
6,400.0	9.35	110.48	6,261.7	-429.6	1,150.0	-1,127.1	2.00	-2.00	0.00	
6,500.0	7.35	110.48	6,360.6	-434.7	1,163.6	-1,140.4	2.00	-2.00	0.00	
6,600.0	5.35	110.48	6,460.0	-438.5	1,173.9	-1,150.5	2.00	-2.00	0.00	
6,700.0	3.35	110.48	6,559.7	-441.2	1,181.0	-1,157.5	2.00	-2.00	0.00	
6,800.0	1.35	110.48	6,659.6	-442.6	1,184.9	-1,161.3	2.00	-2.00	0.00	
6,867.4	0.00	0.01	6,727.0	-442.9	1,185.6	-1,162.0	2.00	-2.00	0.00	
KOP: 1980' FSL & 473' FWL (Sec 14)										
6,900.0	3.26	269.76	6,759.6	-442.9	1,184.7	-1,161.1	10.00	10.00	0.00	
6,950.0	8.26	269.76	6,809.4	-442.9	1,179.7	-1,156.0	10.00	10.00	0.00	
7,000.0	13.26	269.76	6,858.5	-443.0	1,170.3	-1,146.7	10.00	10.00	0.00	
7,050.0	18.26	269.76	6,906.6	-443.0	1,156.7	-1,133.1	10.00	10.00	0.00	
7,100.0	23.26	269.76	6,953.3	-443.1	1,139.0	-1,115.4	10.00	10.00	0.00	
7,150.0	28.26	269.76	6,998.3	-443.2	1,117.3	-1,093.7	10.00	10.00	0.00	
7,200.0	33.26	269.76	7,041.3	-443.3	1,091.7	-1,068.2	10.00	10.00	0.00	
7,250.0	38.26	269.76	7,081.8	-443.4	1,062.5	-1,039.0	10.00	10.00	0.00	
7,300.0	43.26	269.76	7,119.7	-443.5	1,029.9	-1,006.4	10.00	10.00	0.00	
7,350.0	48.26	269.76	7,154.6	-443.7	994.1	-970.7	10.00	10.00	0.00	
7,400.0	53.26	269.76	7,186.2	-443.9	955.4	-932.0	10.00	10.00	0.00	
7,450.0	58.26	269.76	7,214.3	-444.0	914.0	-890.7	10.00	10.00	0.00	
7,500.0	63.26	269.76	7,238.7	-444.2	870.4	-847.1	10.00	10.00	0.00	
7,550.0	68.26	269.76	7,259.2	-444.4	824.8	-801.6	10.00	10.00	0.00	
7,600.0	73.26	269.76	7,275.7	-444.6	777.7	-754.5	10.00	10.00	0.00	
7,650.0	78.26	269.76	7,288.0	-444.8	729.2	-706.1	10.00	10.00	0.00	
7,700.0	83.26	269.76	7,296.0	-445.0	679.9	-656.8	10.00	10.00	0.00	
7,750.0	88.26	269.76	7,299.7	-445.2	630.0	-607.0	10.00	10.00	0.00	
7,767.4	90.00	269.76	7,300.0	-445.3	612.6	-589.6	10.00	10.00	0.00	
FTP/LP: 1980' FSL & 100' FEL (Sec 15)										
7,800.0	90.00	269.76	7,300.0	-445.4	580.0	-557.0	0.00	0.00	0.00	
7,900.0	90.00	269.76	7,300.0	-445.8	480.0	-457.1	0.00	0.00	0.00	
8,000.0	90.00	269.76	7,300.0	-446.2	380.0	-357.3	0.00	0.00	0.00	
8,100.0	90.00	269.76	7,300.0	-446.6	280.0	-257.4	0.00	0.00	0.00	
8,200.0	90.00	269.76	7,300.0	-447.1	180.0	-157.5	0.00	0.00	0.00	
8,300.0	90.00	269.76	7,300.0	-447.5	80.0	-57.6	0.00	0.00	0.00	
8,400.0	90.00	269.76	7,300.0	-447.9	-20.0	42.3	0.00	0.00	0.00	
8,500.0	90.00	269.76	7,300.0	-448.3	-120.0	142.2	0.00	0.00	0.00	
8,600.0	90.00	269.76	7,300.0	-448.7	-220.0	242.1	0.00	0.00	0.00	
8,700.0	90.00	269.76	7,300.0	-449.1	-320.0	342.0	0.00	0.00	0.00	
8,800.0	90.00	269.76	7,300.0	-449.5	-420.0	441.9	0.00	0.00	0.00	
8,900.0	90.00	269.76	7,300.0	-450.0	-520.0	541.8	0.00	0.00	0.00	
9,000.0	90.00	269.76	7,300.0	-450.4	-620.0	641.7	0.00	0.00	0.00	
9,100.0	90.00	269.76	7,300.0	-450.8	-720.0	741.6	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Mighty Ducks 15/16 State Com #525H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3098.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3098.0usft (Original Well Elev)
Site:	Mighty Ducks 15/16 State Com #525H	North Reference:	Grid
Well:	Sec 15, T22S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (Sec 16)		
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)
9,200.0	90.00	269.76	7,300.0	-451.2	-820.0	841.5	0.00	0.00	0.00
9,300.0	90.00	269.76	7,300.0	-451.6	-920.0	941.4	0.00	0.00	0.00
9,400.0	90.00	269.76	7,300.0	-452.0	-1,020.0	1,041.3	0.00	0.00	0.00
9,500.0	90.00	269.76	7,300.0	-452.4	-1,120.0	1,141.2	0.00	0.00	0.00
9,600.0	90.00	269.76	7,300.0	-452.9	-1,220.0	1,241.1	0.00	0.00	0.00
9,700.0	90.00	269.76	7,300.0	-453.3	-1,320.0	1,341.0	0.00	0.00	0.00
9,800.0	90.00	269.76	7,300.0	-453.7	-1,420.0	1,440.9	0.00	0.00	0.00
9,900.0	90.00	269.76	7,300.0	-454.1	-1,520.0	1,540.8	0.00	0.00	0.00
10,000.0	90.00	269.76	7,300.0	-454.5	-1,620.0	1,640.6	0.00	0.00	0.00
10,100.0	90.00	269.76	7,300.0	-454.9	-1,720.0	1,740.5	0.00	0.00	0.00
10,200.0	90.00	269.76	7,300.0	-455.3	-1,820.0	1,840.4	0.00	0.00	0.00
10,300.0	90.00	269.76	7,300.0	-455.8	-1,920.0	1,940.3	0.00	0.00	0.00
10,400.0	90.00	269.76	7,300.0	-456.2	-2,020.0	2,040.2	0.00	0.00	0.00
10,500.0	90.00	269.76	7,300.0	-456.6	-2,119.9	2,140.1	0.00	0.00	0.00
10,600.0	90.00	269.76	7,300.0	-457.0	-2,219.9	2,240.0	0.00	0.00	0.00
10,700.0	90.00	269.76	7,300.0	-457.4	-2,319.9	2,339.9	0.00	0.00	0.00
10,800.0	90.00	269.76	7,300.0	-457.8	-2,419.9	2,439.8	0.00	0.00	0.00
10,900.0	90.00	269.76	7,300.0	-458.2	-2,519.9	2,539.7	0.00	0.00	0.00
11,000.0	90.00	269.76	7,300.0	-458.7	-2,619.9	2,639.6	0.00	0.00	0.00
11,100.0	90.00	269.76	7,300.0	-459.1	-2,719.9	2,739.5	0.00	0.00	0.00
11,200.0	90.00	269.76	7,300.0	-459.5	-2,819.9	2,839.4	0.00	0.00	0.00
11,300.0	90.00	269.76	7,300.0	-459.9	-2,919.9	2,939.3	0.00	0.00	0.00
11,400.0	90.00	269.76	7,300.0	-460.3	-3,019.9	3,039.2	0.00	0.00	0.00
11,500.0	90.00	269.76	7,300.0	-460.7	-3,119.9	3,139.1	0.00	0.00	0.00
11,600.0	90.00	269.76	7,300.0	-461.1	-3,219.9	3,239.0	0.00	0.00	0.00
11,700.0	90.00	269.76	7,300.0	-461.6	-3,319.9	3,338.9	0.00	0.00	0.00
11,800.0	90.00	269.76	7,300.0	-462.0	-3,419.9	3,438.8	0.00	0.00	0.00
11,900.0	90.00	269.76	7,300.0	-462.4	-3,519.9	3,538.6	0.00	0.00	0.00
12,000.0	90.00	269.76	7,300.0	-462.8	-3,619.9	3,638.5	0.00	0.00	0.00
12,100.0	90.00	269.76	7,300.0	-463.2	-3,719.9	3,738.4	0.00	0.00	0.00
12,200.0	90.00	269.76	7,300.0	-463.6	-3,819.9	3,838.3	0.00	0.00	0.00
12,300.0	90.00	269.76	7,300.0	-464.0	-3,919.9	3,938.2	0.00	0.00	0.00
12,400.0	90.00	269.76	7,300.0	-464.5	-4,019.9	4,038.1	0.00	0.00	0.00
12,500.0	90.00	269.76	7,300.0	-464.9	-4,119.9	4,138.0	0.00	0.00	0.00
12,600.0	90.00	269.76	7,300.0	-465.3	-4,219.9	4,237.9	0.00	0.00	0.00
12,700.0	90.00	269.76	7,300.0	-465.7	-4,319.9	4,337.8	0.00	0.00	0.00
12,800.0	90.00	269.76	7,300.0	-466.1	-4,419.9	4,437.7	0.00	0.00	0.00
12,900.0	90.00	269.76	7,300.0	-466.5	-4,519.9	4,537.6	0.00	0.00	0.00
13,000.0	90.00	269.76	7,300.0	-466.9	-4,619.9	4,637.5	0.00	0.00	0.00
13,100.0	90.00	269.76	7,300.0	-467.4	-4,719.9	4,737.4	0.00	0.00	0.00
13,200.0	90.00	269.76	7,300.0	-467.8	-4,819.9	4,837.3	0.00	0.00	0.00
13,300.0	90.00	269.76	7,300.0	-468.2	-4,919.9	4,937.2	0.00	0.00	0.00
13,400.0	90.00	269.76	7,300.0	-468.6	-5,019.9	5,037.1	0.00	0.00	0.00
13,500.0	90.00	269.76	7,300.0	-469.0	-5,119.9	5,137.0	0.00	0.00	0.00
13,600.0	90.00	269.76	7,300.0	-469.4	-5,219.9	5,236.9	0.00	0.00	0.00
13,700.0	90.00	269.76	7,300.0	-469.8	-5,319.9	5,336.8	0.00	0.00	0.00
13,800.0	90.00	269.76	7,300.0	-470.2	-5,419.9	5,436.7	0.00	0.00	0.00
13,900.0	90.00	269.76	7,300.0	-470.7	-5,519.9	5,536.5	0.00	0.00	0.00
14,000.0	90.00	269.76	7,300.0	-471.1	-5,619.9	5,636.4	0.00	0.00	0.00
14,100.0	90.00	269.76	7,300.0	-471.5	-5,719.9	5,736.3	0.00	0.00	0.00
14,200.0	90.00	269.76	7,300.0	-471.9	-5,819.9	5,836.2	0.00	0.00	0.00
14,300.0	90.00	269.76	7,300.0	-472.3	-5,919.9	5,936.1	0.00	0.00	0.00
14,400.0	90.00	269.76	7,300.0	-472.7	-6,019.9	6,036.0	0.00	0.00	0.00
14,500.0	90.00	269.76	7,300.0	-473.1	-6,119.9	6,135.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Mighty Ducks 15/16 State Com #525H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3098.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3098.0usft (Original Well Elev)
Site:	Mighty Ducks 15/16 State Com #525H	North Reference:	Grid
Well:	Sec 15, T22S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (Sec 16)		
Design:	Design #1		

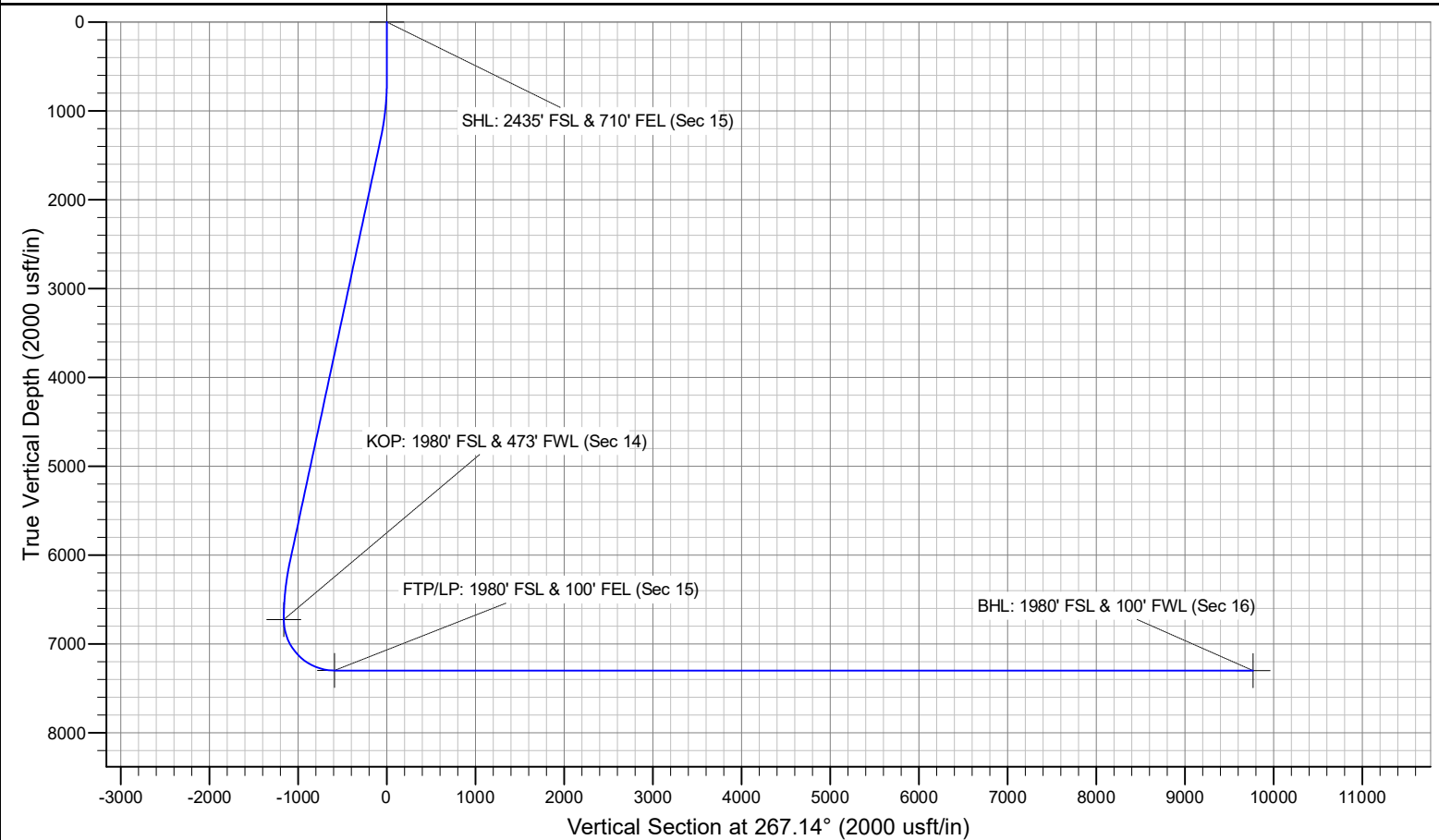
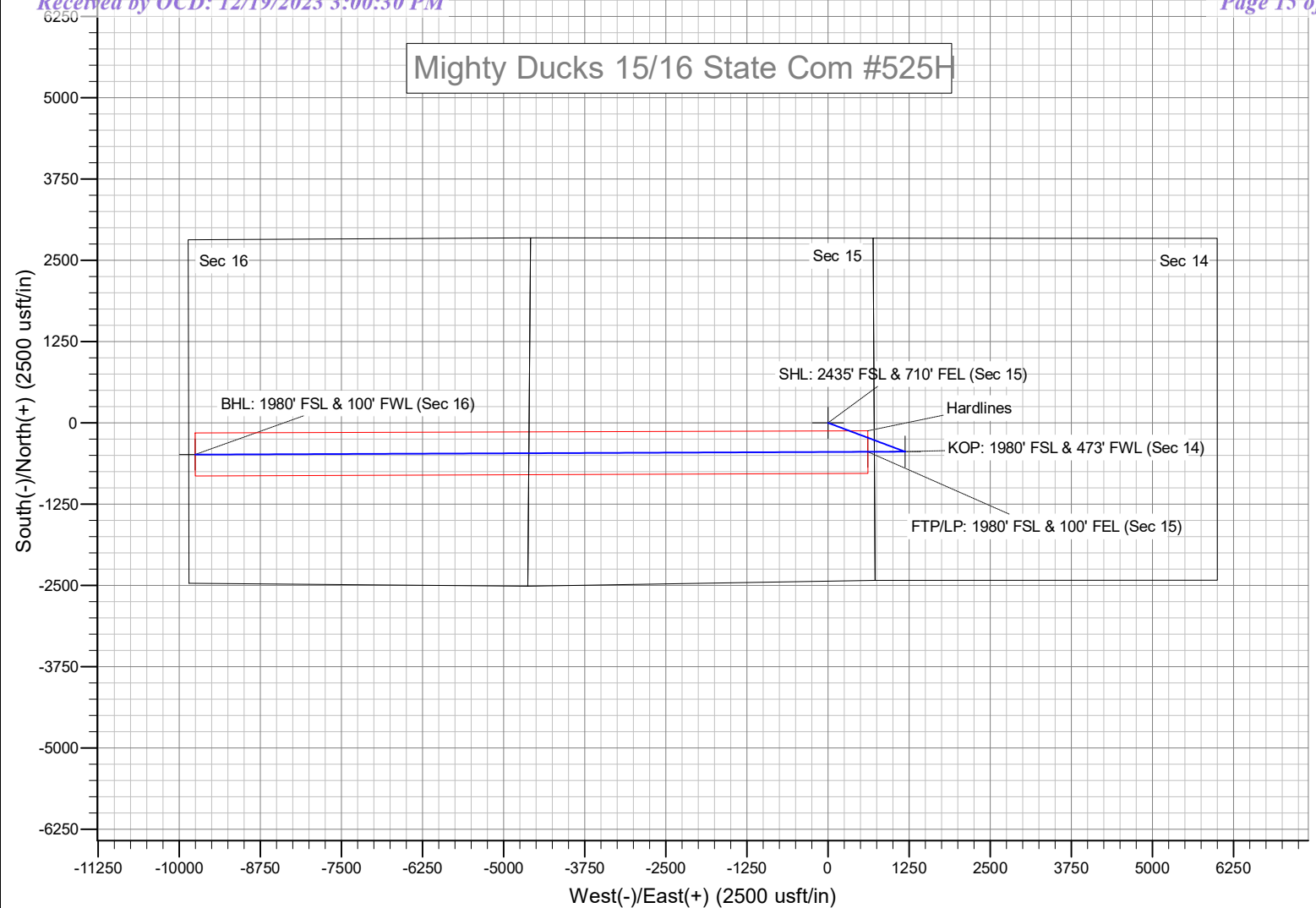
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,600.0	90.00	269.76	7,300.0	-473.6	-6,219.9	6,235.8	0.00	0.00	0.00	
14,700.0	90.00	269.76	7,300.0	-474.0	-6,319.9	6,335.7	0.00	0.00	0.00	
14,800.0	90.00	269.76	7,300.0	-474.4	-6,419.9	6,435.6	0.00	0.00	0.00	
14,900.0	90.00	269.76	7,300.0	-474.8	-6,519.9	6,535.5	0.00	0.00	0.00	
15,000.0	90.00	269.76	7,300.0	-475.2	-6,619.9	6,635.4	0.00	0.00	0.00	
15,100.0	90.00	269.76	7,300.0	-475.6	-6,719.9	6,735.3	0.00	0.00	0.00	
15,200.0	90.00	269.76	7,300.0	-476.0	-6,819.9	6,835.2	0.00	0.00	0.00	
15,300.0	90.00	269.76	7,300.0	-476.5	-6,919.9	6,935.1	0.00	0.00	0.00	
15,400.0	90.00	269.76	7,300.0	-476.9	-7,019.9	7,035.0	0.00	0.00	0.00	
15,500.0	90.00	269.76	7,300.0	-477.3	-7,119.9	7,134.9	0.00	0.00	0.00	
15,600.0	90.00	269.76	7,300.0	-477.7	-7,219.9	7,234.8	0.00	0.00	0.00	
15,700.0	90.00	269.76	7,300.0	-478.1	-7,319.9	7,334.7	0.00	0.00	0.00	
15,800.0	90.00	269.76	7,300.0	-478.5	-7,419.9	7,434.5	0.00	0.00	0.00	
15,900.0	90.00	269.76	7,300.0	-478.9	-7,519.9	7,534.4	0.00	0.00	0.00	
16,000.0	90.00	269.76	7,300.0	-479.4	-7,619.9	7,634.3	0.00	0.00	0.00	
16,100.0	90.00	269.76	7,300.0	-479.8	-7,719.9	7,734.2	0.00	0.00	0.00	
16,200.0	90.00	269.76	7,300.0	-480.2	-7,819.9	7,834.1	0.00	0.00	0.00	
16,300.0	90.00	269.76	7,300.0	-480.6	-7,919.9	7,934.0	0.00	0.00	0.00	
16,400.0	90.00	269.76	7,300.0	-481.0	-8,019.9	8,033.9	0.00	0.00	0.00	
16,500.0	90.00	269.76	7,300.0	-481.4	-8,119.9	8,133.8	0.00	0.00	0.00	
16,600.0	90.00	269.76	7,300.0	-481.8	-8,219.9	8,233.7	0.00	0.00	0.00	
16,700.0	90.00	269.76	7,300.0	-482.3	-8,319.9	8,333.6	0.00	0.00	0.00	
16,800.0	90.00	269.76	7,300.0	-482.7	-8,419.9	8,433.5	0.00	0.00	0.00	
16,900.0	90.00	269.76	7,300.0	-483.1	-8,519.9	8,533.4	0.00	0.00	0.00	
17,000.0	90.00	269.76	7,300.0	-483.5	-8,619.9	8,633.3	0.00	0.00	0.00	
17,100.0	90.00	269.76	7,300.0	-483.9	-8,719.9	8,733.2	0.00	0.00	0.00	
17,200.0	90.00	269.76	7,300.0	-484.3	-8,819.9	8,833.1	0.00	0.00	0.00	
17,300.0	90.00	269.76	7,300.0	-484.7	-8,919.9	8,933.0	0.00	0.00	0.00	
17,400.0	90.00	269.76	7,300.0	-485.2	-9,019.9	9,032.9	0.00	0.00	0.00	
17,500.0	90.00	269.76	7,300.0	-485.6	-9,119.9	9,132.8	0.00	0.00	0.00	
17,600.0	90.00	269.76	7,300.0	-486.0	-9,219.9	9,232.7	0.00	0.00	0.00	
17,700.0	90.00	269.76	7,300.0	-486.4	-9,319.9	9,332.5	0.00	0.00	0.00	
17,800.0	90.00	269.76	7,300.0	-486.8	-9,419.9	9,432.4	0.00	0.00	0.00	
17,900.0	90.00	269.76	7,300.0	-487.2	-9,519.9	9,532.3	0.00	0.00	0.00	
18,000.0	90.00	269.76	7,300.0	-487.6	-9,619.9	9,632.2	0.00	0.00	0.00	
18,100.0	90.00	269.76	7,300.0	-488.1	-9,719.9	9,732.1	0.00	0.00	0.00	
18,135.4	90.00	269.76	7,300.0	-488.2	-9,755.3	9,767.5	0.00	0.00	0.00	
BHL: 1980' FSL & 100' FWL (Sec 16)										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Mighty Ducks 15/16 State Com #525H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3098.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3098.0usft (Original Well Elev)
Site:	Mighty Ducks 15/16 State Com #525H	North Reference:	Grid
Well:	Sec 15, T22S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1980' FSL & 100' FWL (Sec 16)		
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: 2435' FSL & 710' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	506,496.90	591,425.40	32.3923240	-104.1710585
KOP: 1980' FSL & 473' F - plan hits target center - Point	0.00	0.01	6,727.0	-442.9	1,185.6	506,054.00	592,611.00	32.3911016	-104.1672197
FTP/LP: 1980' FSL & 10 - plan hits target center - Point	0.00	0.00	7,300.0	-445.3	612.6	506,051.63	592,038.02	32.3910975	-104.1690760
BHL: 1980' FSL & 100' F - plan hits target center - Point	0.00	0.00	7,300.0	-488.2	-9,755.3	506,008.70	581,670.10	32.3910188	-104.2026656

Mighty Ducks 15/16 State Com #525H



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:** 12/14/23

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
Mighty Ducks 15/16 State Com 525H		I 15 22S 27E	2435' FSL x 710' FEL	1500	2500	4500

IV. Central Delivery Point Name: Mighty Ducks 15/16 State Com 525H [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
Mighty Ducks 15/16 State Com 525H		12/14/23	1/14/24	2/14/23	3/17/23	3/17/2

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.

Page 8

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:	<i>Bradley Bishop</i>
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	12/14/22
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Mewbourne Oil Company

Natural Gas Management Plan – Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :
- A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

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.



Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
5. The rig will then walk to the next well.
6. Confirm that the well is static and remove the capping flange.
7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
8. Install a test plug into the wellhead.
9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
11. The annular, blind rams and lower pipe rams will then be function tested.
12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.

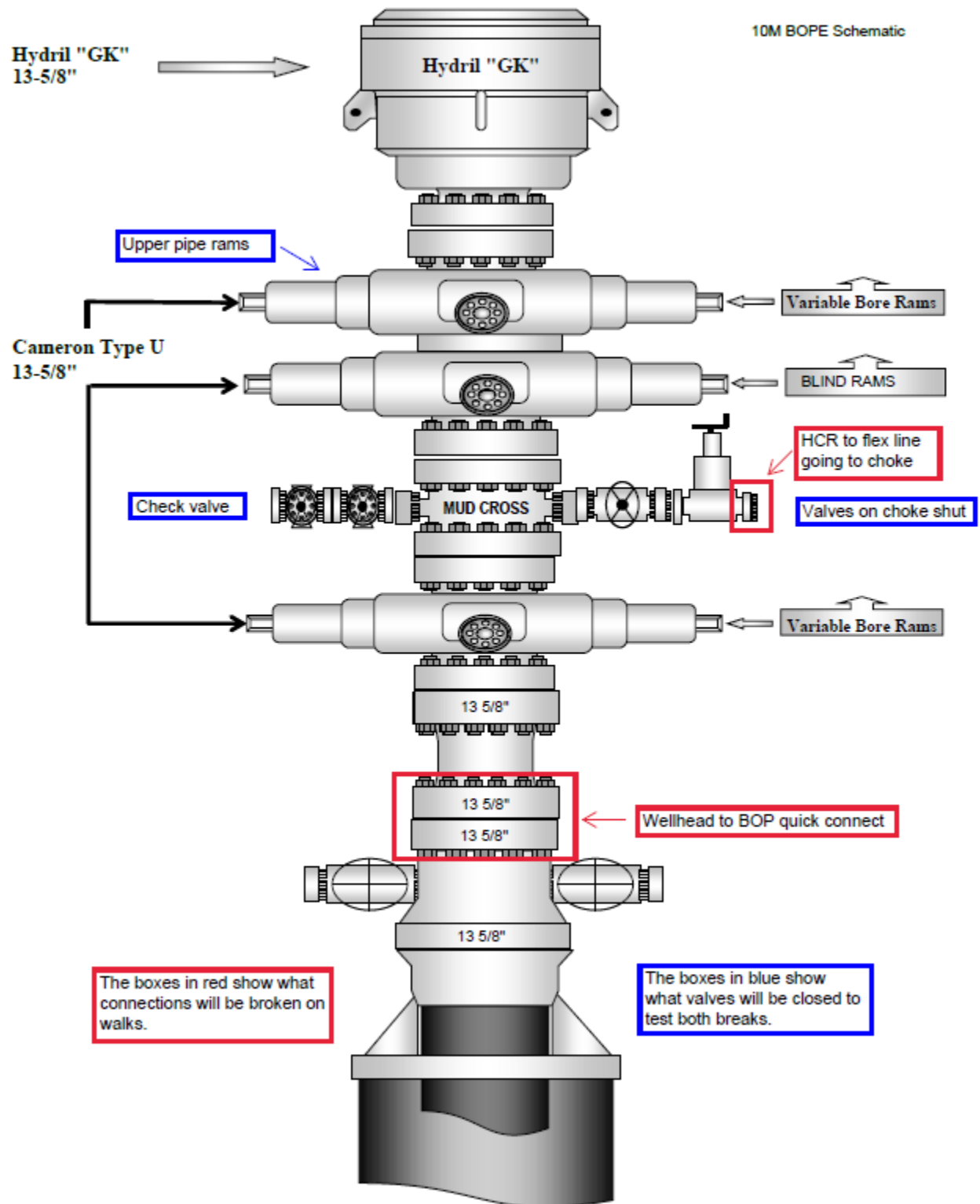


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

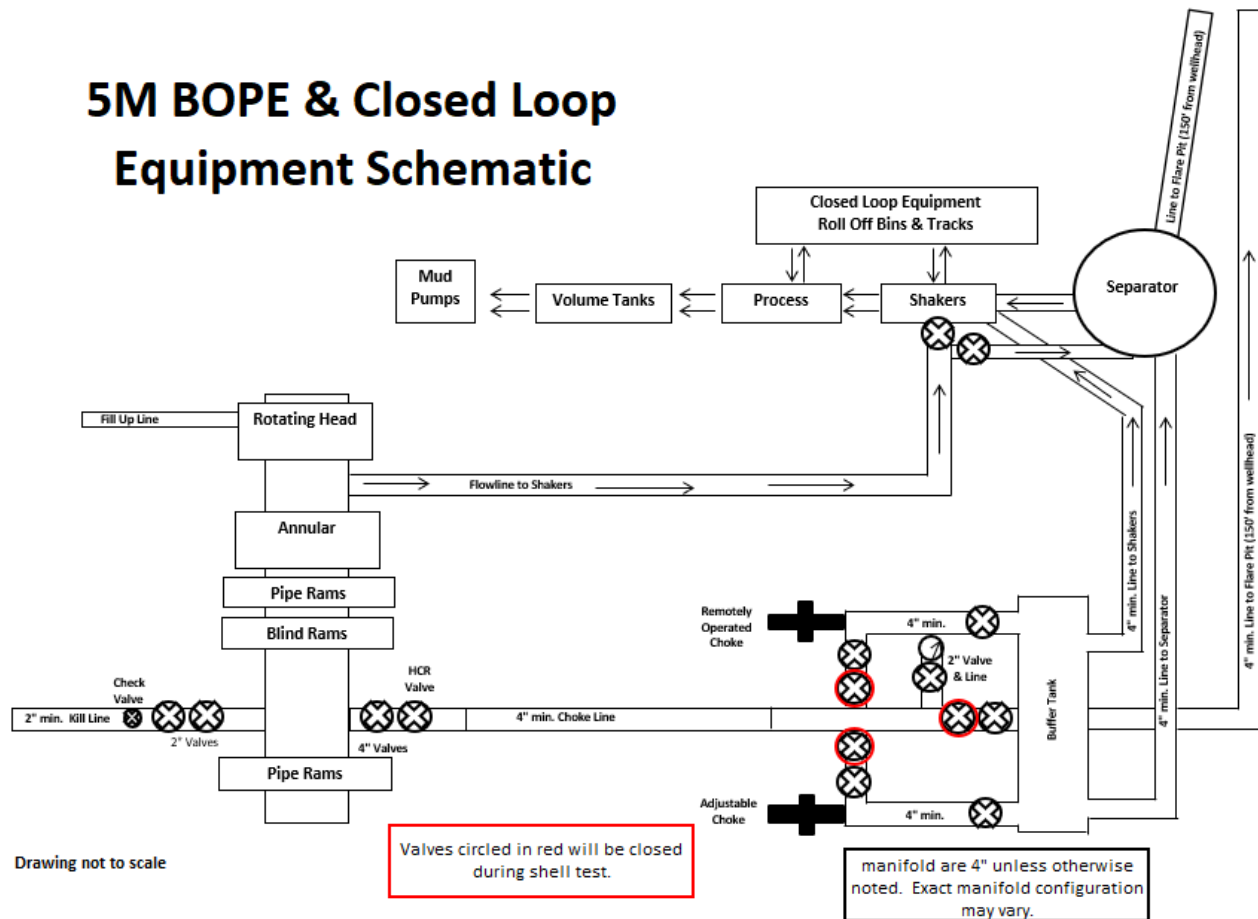


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

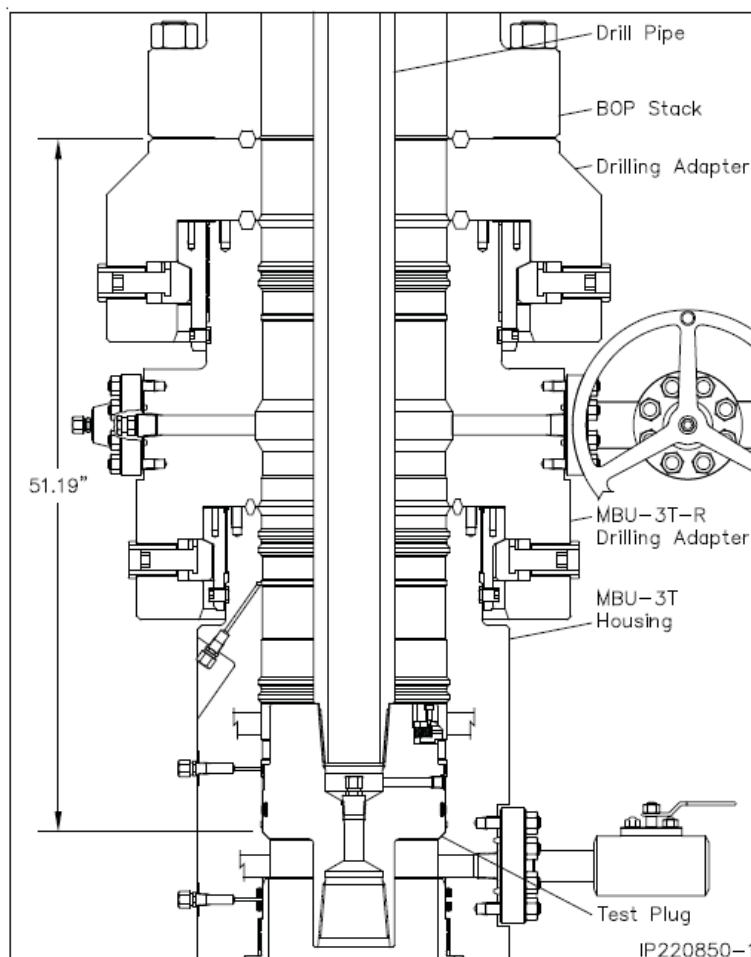


Figure 5. Cactus 5M wellhead with BOP quick connect

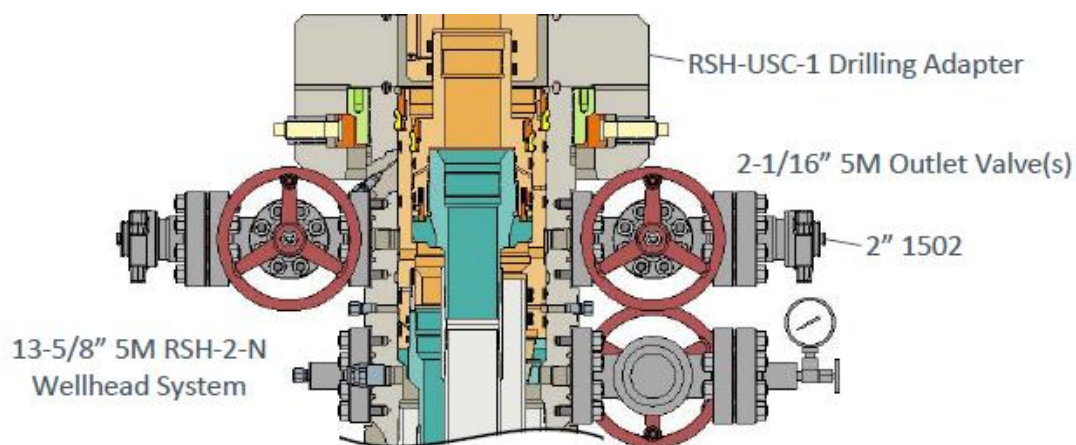


Figure 6. Vault 5M wellhead with BOP quick connect