

CASE NO. 24146

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO**

EXHIBIT LIST

PART I

1. Pooling Checklist
2. Landman's Affidavit
 - 2-A: C-102
 - 2-B: Tract Map and Ownership List
 - 2-C: Proposal Letter and Summary of Communcations
 - 2-D: AFE
3. Geologist's Affidavit
 - 3-A: Structure Map
 - 3-B: Cross-Section
 - 3-C: Horizontal Drilling Plan

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 24146

Date: June 13, 2024

APPLICANT'S RESPONSE

Applicant

Mewbourne Oil Company

Designated Operator & OGRID (affiliation if applicable)

14744

Applicant's Counsel:

James Bruce

Case Title:

Application of Mewbourne Oil Company for compulsory pooling, Eddy County, New Mexico

EXHIBIT |

Entries of Appearance/Intervenors:

MRC Permian Company/Holland & Hart LLP

Well Family

Mockingbird Bone Spring Wells

Formation/Pool

Formation Name(s) or Vertical Extent:

Bone Spring formation

Primary Product (Oil or Gas):

Oil

Pooling this vertical extent:

Entire Bone Spring formation

Pool Name and Pool Code (Only if NSP is requested):

Well Location Setback Rules (Only if NSP is Requested):

Spacing Unit

Type (Horizontal/Vertical)

Horizontal

Size (Acres)

240 acres

Building Blocks:

40 acres

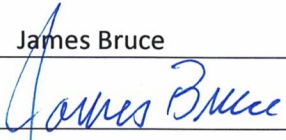
Orientation:

East-West

Description: TRS/County	N/2N/2 §16 and N/2NE/4 §17, Township 18 South, Range 29 East, NMPM, Eddy County
Standard Horizontal Well Spacing Unit (Y/N), If No, describe <u>and is approval of non-standard unit requested in this application?</u>	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	
Applicant's Ownership in Each Tract	Exhibit 2-A
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed
Well #1	Mockingbird 16/17 Fed. Com. Well No. 521H

Horizontal Well First and Last Take Points	660 feet FNL and 100 feet FEL §16 660 feet FNL and 2529 feet FEL §17
Completion Target (Formation, TVD and MD)	Second Bone Spring Sand TVD 7513 feet, MVD 15429 feet
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$10000
Production Supervision/Month \$	\$1000
Justification for Supervision Costs	Exhibit 2
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit 6
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit 4
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit 5

Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit 2-B
Tract List (including lease numbers and owners)	Exhibit 2-B
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to notice requirements.	
Pooled Parties (including ownership type)	Exhibit 2-B/Working Interest
Unlocatable Parties to be Pooled	None
Ownership Depth Severance (including percentage above & below)	No severance
Joinder	
Sample Copy of Proposal Letter	Exhibit 2-C
List of Interest Owners (i.e. Exhibit A of JOA)	Exhibit 2-B
Chronology of Contact with Non-Joined Working Interests	Exhibit 2-C
Overhead Rates In Proposal Letter	
Cost Estimate to Drill and Complete	Exhibit 2-D
Cost Estimate to Equip Well	Exhibit 2-D
Cost Estimate for Production Facilities	Exhibit 2-D
Geology	
Summary (including special considerations)	Exhibit 3
Spacing Unit Schematic	Exhibit 2-A

Gunbarrel/Lateral Trajectory Schematic	Exhibit 3-B
Well Orientation (with rationale)	Exhibit 3
Target Formation	Second Bone Spring Sand
HSU Cross Section	Exhibit 3-B
Depth Severance Discussion	N/A
Forms, Figures and Tables	
C-102	Exhibit 2-A
Tracts	Exhibit 2-B
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit 2-B
General Location Map (including basin)	Exhibit 3-A
Well Bore Location Map	Exhibit 2-A
Structure Contour Map - Subsea Depth	Exhibit 3-A
Cross Section Location Map (including wells)	Exhibit 3-B
Cross Section (including Landing Zone)	Exhibit 3-B
Additional Information	
Special Provisions/Stipulations	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	James Bruce
Signed Name (Attorney or Party Representative):	
Date:	June 2, 2024

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, EDDY COUNTY,
NEW MEXICO.**

Case No. 24146

SELF-AFFIRMED STATEMENT OF ARIANA RODRIGUES

Ariana Rodrigues deposes and states:

1. I am a landman for Mewbourne Oil Company (“Mewbourne”), and have personal knowledge of the matters stated herein. I have previously testified before the Division and my qualifications as an expert in petroleum land matters was accepted of record.
2. Pursuant to Division Rules, the following information is submitted in support of the compulsory pooling application filed herein.
3. The purpose of these applications is to force pool uncommitted working interest owners into the Bone Spring horizontal spacing unit described below, and in wells to be drilled in the unit.
4. No opposition is expected because the interest owners being pooled have been contacted regarding the proposed wells, but have failed or refused to voluntarily commit their interests to the well.
5. In this application Mewbourne seeks an order pooling all uncommitted mineral interest owners in the Bone Spring formation underlying a horizontal spacing unit comprised of N/2N/2 of Section 16 and the N/2NE/4 of Section 17, Township 18 South, Range 29 East, N.M.P.M., Eddy County, New Mexico. The unit will be dedicated to the Mockingbird 16/17 Fed. Com. Well No. 521H, with a first take point in the NE/4NE/4 of Section 16 and a last take point in the NW/4NE/4 of Section 17.

A C-102 for the well is submitted as Exhibit 2-A.
6. There is no depth severance in the Bone Spring formation.
7. Land plats and a summary of leases and working interest ownership are contained in Exhibit 2-B. The working interest owners being pooled are highlighted in red.
8. A sample copy of the proposal letter and a summary of communications are attached as Exhibit 2-C.

EXHIBIT 2

9. To locate the interest owners Mewbourne searched the county and federal records, and did Accurint and Google searches, as well as using other online services. Mewbourne has made a good faith effort to locate and obtain the voluntary joinder of the uncommitted working interest owners in the proposed well.

10. An Authorization for Expenditure for the proposed well is submitted as Exhibit 2-D. The estimated cost of the well set forth therein is fair and reasonable, and comparable to the costs of other wells of similar depth and length drilled in this area of Eddy County.

11. Mewbourne requests overhead and administrative rates of \$10,000/month for a drilling well and \$1,000/month for a producing well. These rates are fair, and comparable to the rates charged by other operators for wells of this type in this portion of Eddy County. They are also the rates set forth in the proposed Joint Operating Agreement for the well unit. Mewbourne requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

12. Mewbourne requests that the maximum cost plus 200% risk charge be assessed against a non-consenting working interest owner.


13. Mewbourne requests that it be designated operator of the well.

14. The attachments to this affidavit were prepared by me, or compiled from company business records.

15. The granting of this application is in the interests of conservation and the prevention of waste.

I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 15 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 6/4/2024


Ariana Rodriguez

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 96832		³ Pool Name SAND TANK; BONE SPRING	
⁴ Property Code		⁵ Property Name MOCKINGBIRD 16/17 FED COM		⁶ Well Number 521H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY		⁹ Elevation 3492'	

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
E	15	18S	29E		1720	NORTH	205	WEST	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
B	17	18S	29E		660	NORTH	2529	EAST	EDDY

¹² Dedicated Acres 240.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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

CORNER DATA

NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1916"
N: 633091.0 - E: 611385.1

B: FOUND BRASS CAP "1916"
N: 635732.5 - E: 611379.0

C: CALCULATED CORNER
N: 638373.1 - E: 611371.9

D: FOUND BRASS CAP "1916"
N: 638381.6 - E: 614009.3

E: FOUND BRASS CAP "1916"
N: 638368.4 - E: 616634.7

F: FOUND BRASS CAP "1916"
N: 638399.8 - E: 619288.0

G: FOUND BRASS CAP "1916"
N: 638408.5 - E: 621927.5

H: FOUND BRASS CAP "1916"
N: 638424.5 - E: 627213.2

I: FOUND BRASS CAP "1916"
N: 633144.3 - E: 627227.7

J: FOUND 1" PIPE
N: 633137.1 - E: 624584.5

K: FOUND BRASS CAP "1916"
N: 633128.5 - E: 621940.8

L: FOUND BRASS CAP "1916"
N: 633119.7 - E: 619303.0

M: FOUND BRASS CAP "1916"
N: 633111.3 - E: 618661.9

N: FOUND BRASS CAP "1916"
N: 633101.6 - E: 614024.5

O: FOUND BRASS CAP "1916"
N: 635750.7 - E: 616654.9

P: FOUND BRASS CAP "1916"
N: 635768.2 - E: 621934.5

17 OPERATOR CERTIFICATION

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

Signature _____ Date _____

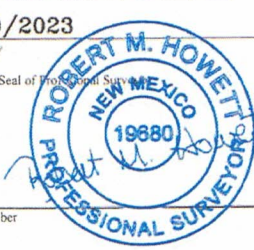
Printed Name _____

E-mail Address _____

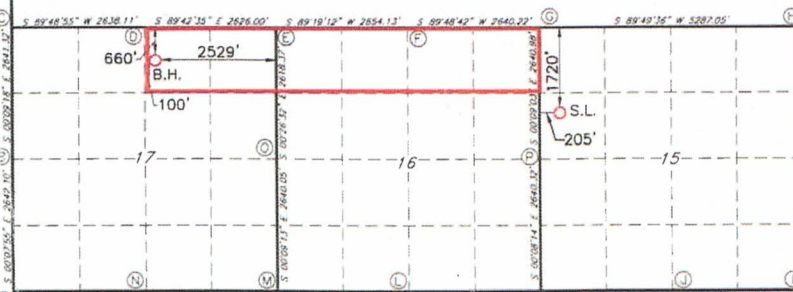
18 SURVEYOR CERTIFICATION

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.

09/20/2023
Date of Survey

Signature and Seal of Professional Surveyor


19680
Certificate Number



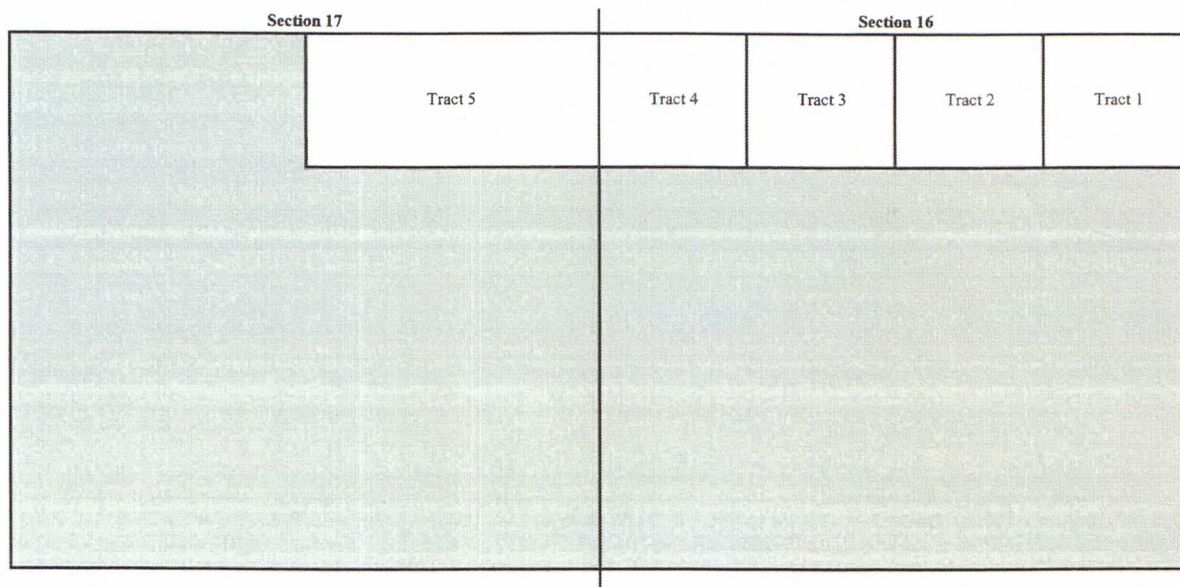
Job No.: LS23090823

EXHIBIT 2.A

Section Plat
Mockingbird 16/17 Fed Com #521H
N2N2 of Section 16 & N2NE4 of Section 17

T18S, R29E, Eddy County, New Mexico

T18S, R29E, Eddy County, New Mexico



RECAPITULATION

Tract Number	Number of Acres Committed	Percentage of Interest in Communitized Area
1	40.00	16.666667%
2	40.00	16.666667%
3	40.00	16.666667%
4	40.00	16.666667%
5	80.00	33.333333%
TOTAL	240.00	100.000000%

EXHIBIT 2.B

TRACT OWNERSHIP
Mockingbird 16/17 Fed Com #521H
N2N2 of Section 16 & N2NE4 of Section 17
T18S, R29E, Eddy County, New Mexico

Ownership by Tract

Tract 1: NENE of Section 16 - State Lease V-4981-1

Entity/Individual	Interest	Gross Acres	Net Acres
Mewbourne Oil Company et. al.	100.000000%	40.00	40.00000000
Total	100.00000000%		40.00000000

Tract 2: NWNE of Section 16 - State Lease OG-5359-2

Entity/Individual	Interest	Gross Acres	Net Acres
Mewbourne Oil Company et. al.	100.000000%	40.00	40.00000000
Total	100.00000000%		40.00000000

Tract 3: NENW of Section 16 - State Lease B-4918-108

Entity/Individual	Interest	Gross Acres	Net Acres
Mewbourne Oil Company et. al.	49.500000%	40.00	19.80000000
Jami Huber Owen	0.500000%	40.00	0.20000000
WPX Energy Permian LLC	50.000000%	40.00	20.00000000
Total	100.00000000%		40.00000000

Tract 4: NWNW of Section 16 - State Lease B0-6058-15

Entity/Individual	Interest	Gross Acres	Net Acres
Mewbourne Oil Company et. al.	99.000000%	40.00	39.60000000
Jami Huber Owen	1.000000%	40.00	0.40000000
Total	100.00000000%		40.00000000

Tract 5: N2NE4 of Section 17 - Federal Lease NMLC 058127

Entity/Individual	Interest	Gross Acres	Net Acres
Mewbourne Oil Company et. al.	100.000000%	80.00	80.00000000
Total	100.00000000%		80.00000000

Spacing Unit Ownership

	Percentage	
Mewbourne Oil Company, et al.	91.416667%	219.400000
WPX Energy Permian LLC*	8.333333%	20.000000
Jami Huber Owen*	0.250000%	0.600000
Total	100.000000%	240.00000000

*Parties highlighted in red are being pooled

MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020
Midland, Texas 79701
Phone (432) 682-3715

December 4, 2023

Certified Mail

«Owners»
«Attn»
«Address_Line_1»
«Address_Line_2»
«City», «State» «Zip_Code»

Re: Mockingbird 16/17 Working Interest Unit and Well Proposals
All of Section 16 & E/2 of Section 17, T18S, R29E
Eddy County, New Mexico

Ladies and Gentlemen:

Mewbourne Oil Company ("MOC"), as Operator, hereby proposes creating a working interest unit comprising of All of Section 16 & the E/2 of Section 17, T18S, R29E, Eddy County, New Mexico. As part of the initial development of this unit, MOC hereby proposes the following wells targeting the Bone Spring formation:

- 1) MOCKINGBIRD 16/17 FED COM #521H – API # - pending
Surface Location: 1720 FNL & 205 FWL, Section 15, T18S, R29E
Bottom Hole Location: 660 FNL & 2529 FEL, Section 17, T18S, R29E
Proposed Total Vertical Depth: 7,513'
Proposed Total Measured Depth: 15,429'
- 2) MOCKINGBIRD 16/17 FED COM #523H – API # - pending
Surface Location: 1740 FNL & 205 FWL, Section 15, T18S, R29E
Bottom Hole Location: 1980 FNL & 2536 FEL, Section 17, T18S, R29E
Proposed Total Vertical Depth: 7,543'
Proposed Total Measured Depth: 15,435'
- 3) MOCKINGBIRD 16/17 FED COM #526H – API # - pending
Surface Location: 1180 FSL & 330 FWL, Section 15, T18S, R29E
Bottom Hole Location: 1980 FSL & 2540 FEL, Section 17, T18S, R29E
Proposed Total Vertical Depth: 7,711'
Proposed Total Measured Depth: 15,637'
- 4) MOCKINGBIRD 16/17 FED COM #528H – API # - pending
Surface Location: 1140 FSL & 330 FWL, Section 15, T18S, R29E
Bottom Hole Location: 660 FSL & 2540 FEL, Section 17, T18S, R29E
Proposed Total Vertical Depth: 7,744'
Proposed Total Measured Depth: 15,685'

Regarding the above, enclosed for your further handling is our Operating Agreement dated December 1, 2023, along with an extra set of signature pages and our AFEs dated a November 14, 2023 and November 16, 2023 for the captioned proposed wells.

In the event your firm elects to participate in the proposed wells, please execute the enclosed extra set of JOA signature/notary pages and the AFEs before mailing them back to my attention to the address on the letterhead above within thirty (30) days.

Please contact me at (432) 682-3715 or arodrigues@mewbourne.com if you have any questions or need additional information.

Very truly yours,

MEWBOURNE OIL COMPANY

Ariana Rodrigues
Landman

EXHIBIT

2-C

Summary of Communications
Mockingbird 16/17 Fed Com #521H
N2N2 of Section 16 & N2NE4 of Section 17
T18S, R29E, Eddy County, New Mexico

MRC Delaware Resources LLC:

12/6/2023: Mailed Working Interest Unit and Well Proposal to the above listed party.
1/5/2024: Emailed Working Interest Unit and Well Proposal to the above listed party.

WPX Energy Permian LLC:

12/6/2023: Mailed Working Interest Unit and Well Proposal to the above listed party.
1/29/2024: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

B&L Equipment:

12/6/2023: Mailed Working Interest Unit and Well Proposal to the above listed party.
12/29/2023: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.
1/3/2024: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.
1/5/2024: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

RLMPKM, LLC/ The heirs of Virginia P Monaghan:

12/6/2023: Mailed Working Interest Unit and Well Proposal to the above listed party.

Jami Huber Owen:

12/6/2023: Mailed Working Interest Unit and Well Proposal to the above listed party.
1/10/2024: Emailed Working Interest Unit and Well Proposal to the above listed party.
1/25/2024: Follow up email and voicemail regarding Working Interest Unit and Well Proposal.

Jessica Seligman:

12/6/2023: Mailed Working Interest Unit and Well Proposal to the above listed party.
1/25/2024: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

Kenneth Gavin Seligman (a/k/a Ken Seligman):

12/6/2023: Mailed Working Interest Unit and Well Proposal to the above listed party.
1/10/2024: Emailed Working Interest Unit and Well Proposal to the above listed party.
1/25/2024: Correspondence with above listed party regarding Working Interest Unit and Well Proposal.

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name: **MOCKINGBIRD 16/17 FED COM #521H** Prospect: **ASPEN**
 Location: **SL: 1720 FNL & 205 FWL (15); BHL: 660 FNL & 2529 FEL (17)** County: **Eddy** ST: **NM**
 Sec. **16/17** Blk: Survey: TWP: **18S** RNG: **29E** Prop. TVD: **7513** TMD: **15429**

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$20,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$50,000	0180-0205	\$35,000
Location / Restoration		0180-0106	\$40,000	0180-0206	\$60,000
Daywork / Turnkey / Footage Drilling	25 days drlg / 3 days comp @ \$28000/d	0180-0110	\$747,600	0180-0210	\$89,700
Fuel	1700 gal/day @ \$3.9/gal	0180-0114	\$177,000	0180-0214	\$175,000
Alternate Fuels		0180-0115		0180-0215	\$40,000
Mud, Chemical & Additives		0180-0120	\$40,000	0180-0220	
Mud - Specialized		0180-0121	\$260,000	0180-0221	
Horizontal Drillout Services				0180-0222	\$150,000
Stimulation Toe Preparation				0180-0223	\$25,000
Cementing		0180-0125	\$150,000	0180-0225	\$50,000
Logging & Wireline Services		0180-0130	\$34,000	0180-0230	\$224,000
Casing / Tubing / Snubbing Services		0180-0134	\$30,000	0180-0234	\$15,000
Mud Logging		0180-0137	\$15,000		
Stimulation	37 Stg 14.9 MM gal / 14.9 MM lb			0180-0241	\$1,667,000
Stimulation Rentals & Other				0180-0242	\$186,000
Water & Other		0180-0145	\$40,000	0180-0245	\$323,000
Bits		0180-0148	\$96,100	0180-0248	
Inspection & Repair Services		0180-0150	\$50,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$12,000	0180-0258	\$24,000
Completion / Workover Rig				0180-0260	\$10,500
Rig Mobilization		0180-0164	\$150,000		
Transportation		0180-0165	\$30,000	0180-0265	\$30,000
Welding, Construction & Maint. Services		0180-0168	\$4,000	0180-0268	\$16,500
Contract Services & Supervision		0180-0170	\$159,600	0180-0270	\$50,000
Directional Services	Includes Vertical Control	0180-0175	\$418,000		
Equipment Rental		0180-0180	\$168,900	0180-0280	\$25,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$4,100	0180-0285	
Intangible Supplies		0180-0188	\$7,000	0180-0288	\$1,000
Damages		0180-0190	\$10,000	0180-0290	\$10,000
Pipeline Interconnect, ROW Easements		0180-0192		0180-0292	\$5,000
Company Supervision		0180-0195	\$100,800	0180-0295	\$28,800
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Contingencies	5% (TCP) 5% (CC)	0180-0199	\$141,455	0180-0299	\$163,775
TOTAL			\$2,970,555		\$3,439,275

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0")	300' - 13 3/8" 54.5# J-55 ST&C @ \$47.92/ft	0181-0794	\$15,400		
Casing (8.1" - 10.0")	1350' - 9 5/8" 36# J-55 LT&C @ \$40.67/ft	0181-0795	\$58,600		
Casing (6.1" - 8.0")	7200' - 7" 29# HPP110 BT&C @ \$38.93/ft	0181-0796	\$299,400		
Casing (4.1" - 6.0")	8900' - 4 1/2" 13.5# HCP-110 CDC-HTQ @ \$21.65/ft			0181-0797	\$205,800
Tubing	6950' - 2 7/8" 6.5# L-80 IPC Tbg @ \$13/ft			0181-0798	\$96,500
Drilling Head		0181-0860	\$35,000		
Tubing Head & Upper Section				0181-0870	\$30,000
Horizontal Completion Tools	Completion Liner Hanger			0181-0871	\$75,000
Subsurface Equip. & Artificial Lift	ESP			0181-0880	\$80,000
Service Pumps				0181-0886	\$6,000
Storage Tanks	(1/6) TP/CP/Circ pump			0181-0890	\$90,000
Emissions Control Equipment	(1/6) (8)OT/(6) WT/(2)GB			0181-0892	\$77,000
Separation / Treating Equipment	(1/6) (4)VRT/(2)VRU/(1)FLARE/(4)KO/(1)AIR			0181-0895	\$58,000
Automation Metering Equipment	(1/6) (1) BULK SEP/(3)TEST SEP/(2)V SEP/(3)VHT (1)HHT			0181-0898	\$41,000
Oil/Gas Pipeline-Pipe/Valves&Misc				0181-0900	\$8,000
Water Pipeline-Pipe/Valves & Misc	(1/6) 1 mile gas & water			0181-0901	\$17,000
On-site Valves/Fittings/Lines&Misc				0181-0906	\$84,000
Wellhead Flowlines - Construction				0181-0907	\$87,000
Cathodic Protection				0181-0908	
Electrical Installation				0181-0909	\$79,000
Equipment Installation	(1/6) 1.5 mile gas & water			0181-0910	\$59,000
Oil/Gas Pipeline - Construction				0181-0920	\$7,000
Water Pipeline - Construction				0181-0921	\$15,000
TOTAL			\$408,400		\$1,115,300
SUBTOTAL			\$3,378,955		\$4,554,575
TOTAL WELL COST			\$7,933,530		

Extra Expense Insurance

I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
Operator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as estimated in Line Item 0180-0185.

I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: T. Cude Date: 11/16/2023
 Company Approval: _____ Date: _____

Joint Owner Interest: _____ Amount: _____
 Joint Owner Name: _____ Signature: _____

EXHIBIT 2-D

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

APPLICATIONS OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, EDDY COUNTY,
NEW MEXICO.

Case Nos. 24146-24149

SELF-AFFIRMED STATEMENT OF CHARLES CROSBY

COUNTY OF MIDLAND)
) ss.
STATE OF TEXAS)

Charles Crosby deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.

2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case. I have been qualified by the Division as an expert petroleum geologist.

3. This case involves the Bone Spring formation underlying horizontal spacing units collectively comprising of the all of Section 16 and the E/2 of Section 17, Township 18 South, Range 29 East, N.M.P.M., Eddy County, New Mexico. Applicant proposes to drill the Mockingbird 16/17 Fed. Com. Well Nos. 521H, 523H, 526H, and 528H to depths sufficient to test the Bone Spring formation:

4. The following geological plats are attached hereto:

(a) Exhibit 3-A is a structure map on the base of the Second Bone Spring Sand. It shows that structure dips gently to the southeast. It also shows a west-east line of cross-section.

(b) Exhibit 3-B is a cross section showing the Second Bone Spring Sand, the target zone for the wells proposed in the well units. The well logs on the cross-section give a representative sample of the Second Bone Spring Sand in this area. The target zone in the sand is continuous and uniformly thick across the well units.

5. I conclude from the maps that:

(a) The horizontal spacing units are justified from a geologic standpoint.

EXHIBIT 3

15

- (b) The target zone is continuous and of relatively uniform thickness across the well units.
- (c) Each quarter-quarter section in each well unit will contribute more or less equally to production.
- (d) There is no faulting or other geologic impediment in the area which will affect the drilling of the subject wells.

6. Exhibit 3-A shows that all Second Bone Spring Sand wells near the pooled units are laydown wells. Mewbourne believes laydown well units are reasonable.

7. Exhibit 3-C contains horizontal drilling plans for the proposed wells. The producing intervals of the wells will be orthodox.

I understand that this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 7 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

6/3/24

Date



Charles Crosby

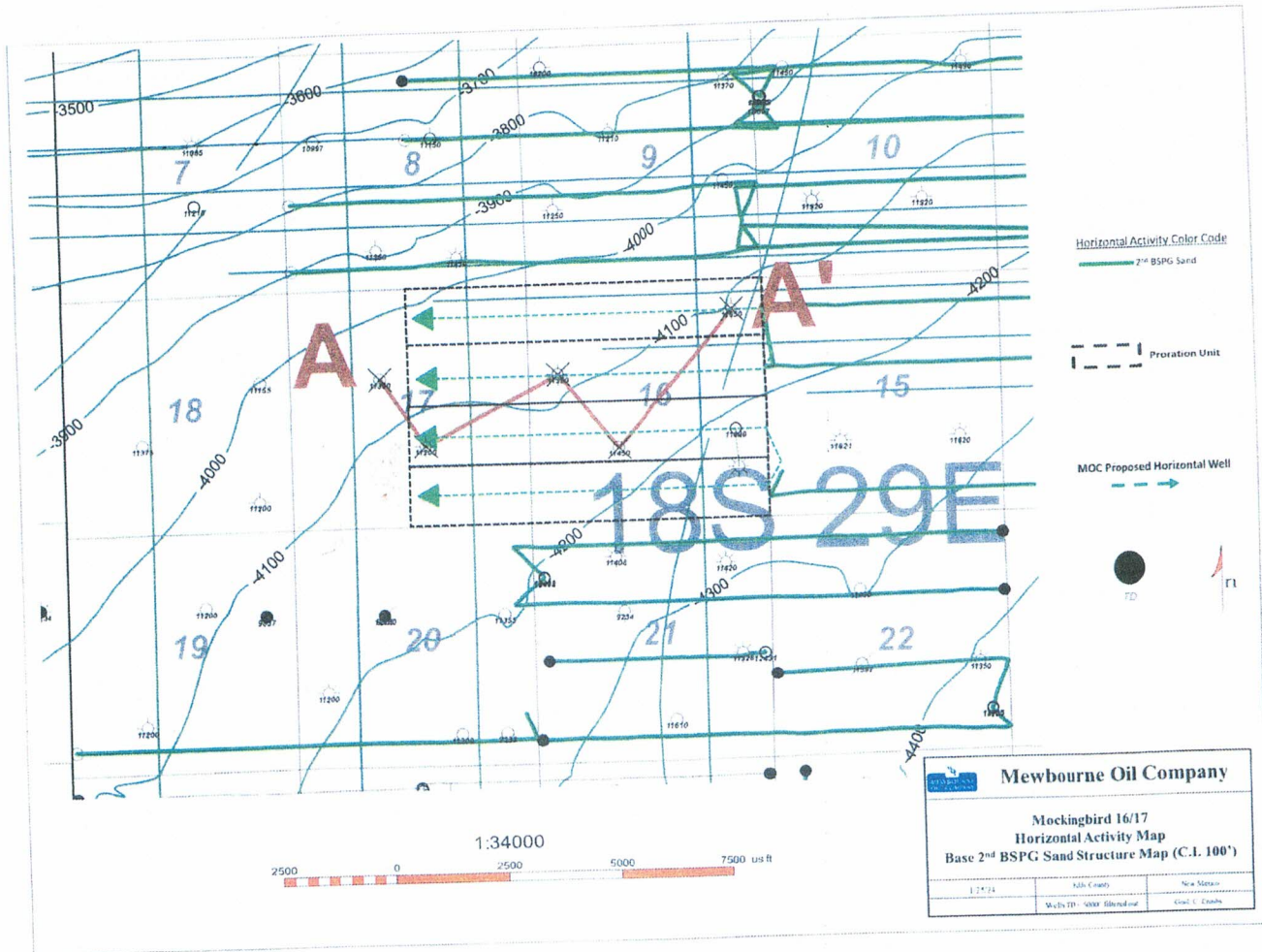


EXHIBIT 3A

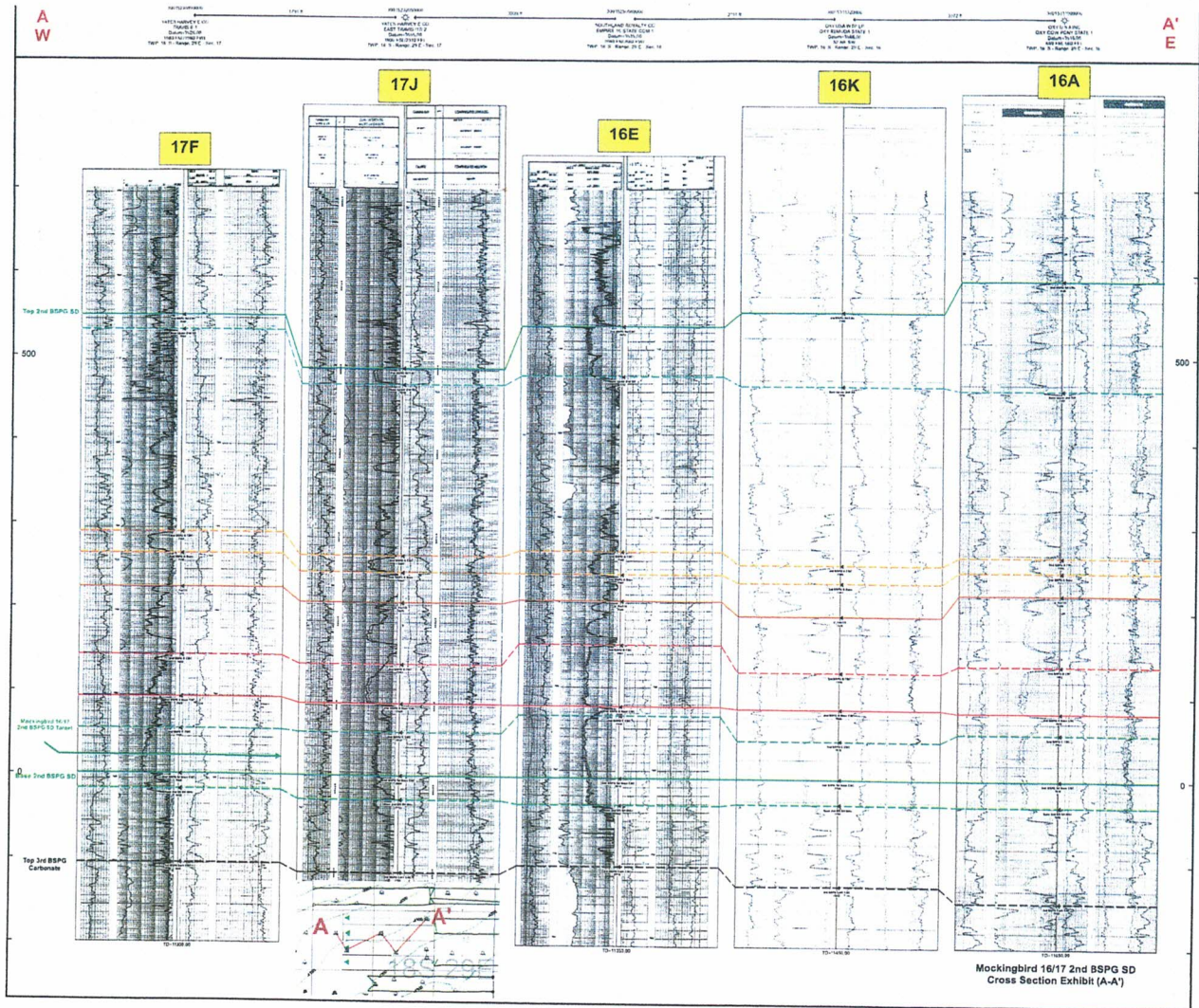


EXHIBIT 3.B

Preliminary Horizontal Planning Worksheet

Fill in the Blue Boxes Yellow Boxes are Calculated Update Anticipated Tops

10/3/2023

Well Name:		<i>Mockingbird 16/17 Fed Com 521H</i>	
Surface Location: State/ County S-T-R or Section-Block-Survey (Texas)	1720 FNL & 205 FWL		
	NM/Eddy		
	Section 15/18S/ 29E		
Target Formation:	2nd BSPG C SD		
Field:	Sand Tank; Bone Spring		
Pool Code:	[96832]		
Spacing:	240 acres		
Setbacks:	330 FNL & FSL, 100 FEL & FWL		
Elevation of SL			
Ground Level:	3492	plat	
Height of KB:	28		
KB Elevation:	3520		
Landing Point			
Footing Calls	660 FNL & 100 FEL Sec 16/18S/29E		
Subsea Depth	-4077		
TVD =	7597		
PBHL			
Footing Calls	660 FNL & 2529 FEL Sec 17/18S/29E		
Subsea Depth	-3993		
TVD =	7513		
Lateral Length:	7498.72		
Estimated KOP:	7024.04		
Est. Total Depth:	15429.17		
<i>10 degree build</i>			

PBHL Offsets =	1043.84	NS
	-8010.36	EW

EXHIBIT 3-C

19

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Mockingbird 1617 Fed Com 521H
KOP 7024.04
SL 1720 FNL & 205 FWL
PHBL 660 FNL & 2529 FEL Sec 17/18S/29E

Target KBTVD: 7,597 Feet 7597.00
Target Angle: 90.64 Degrees 90.64
Section Plane: 277.42 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Table with columns: Survey No., Measured Depth-ft, Drift (Deg.), Azimuth (Deg.), Course Length, TVD (Feet), Vertical Section, +N/-S (Feet), +E/-W (Feet), Closure Distance, Closure Direction, BUR, DLS, KBTVD, +Above -Below Target, DRIFT (RADIANS), AZIMUTH (RADIANS). Rows 1-86.

Preliminary Horizontal Planning Worksheet

Fill in the Blue Boxes Yellow Boxes are Calculated Update Anticipated Tops

10/3/2023

Well Name:		<i>Mockingbird 16/17 Fed Com 523H</i>	
Surface Location:		1740 FNL & 205 FWL	
State/ County		NM/Eddy	
S-T-R or Section-Block-Survey (Texas)		Section 15/18S/ 29E	
Target Formation:		2nd BSPG C SD	
Field:		Sand Tank; Bone Spring	
Pool Code:		[96832]	
Spacing:		240 acres	
Setbacks:		330 FNL & FSL, 100 FEL & FWL	
Elevation of SL			
Ground Level:		3495	plat
Height of KB:		28	
KB Elevation:		3523	
Landing Point			
Footing Calls		1980 FNL & 100 FEL Sec 16/18S/29E	
Subsea Depth		-4130	
TVD =		7653	
PBHL			
Footing Calls		1980 FNL & 2536 FEL Sec 17/18S/29E	
Subsea Depth		-4020	
TVD =		7543	
Lateral Length:		7446.28	
Estimated KOP:		7080.04	
Est. Total Depth:		15434.77	
10 degree build			

PBHL Offsets =	-256.14	NS
	-8023.6	EW

21

Mewbourne Oil Company

SURVEY CALCULATION REPORT
Minimum Curvature Calculations

Operator: Mewbourne Oil Company
Lease Name: Mockingbird 16/17 Fed Com 523H
KOP 7080.04
SL: 1120 FSL & 205 FSL; Sec 24/18S/28E
PBHL: 500 FSL & 100 FWL; Sec 23/18S/28E

Target KBTVD: 7,653 Feet 7653.00
Target Angle: 90.85 Degrees 90.85
Section Plane: 268.17 Degrees
Declination Corrected to True North: 6.63 Degrees
Bit to Survey Offset: 44 Feet

Table with columns: Survey No., Measured Depth-ft, Drift (Deg.), Azimuth (Deg.), Course Length, TVD (Feet), Vertical Section, +N/-S (Feet), +E/-W (Feet), Closure Distance, Closure Direction, BUR, DLS, KBTVD, +Above -Below Target, DRIFT (RADIANS), AZIMUTH (RADIANS). Rows 1-86.

22

87	15434.77	90.85	268.17	0	7543.1	8026.9	-256.1	-8022.8	8026.9	268.2	#DIV/0!	#DIV/0!	7661.5	-8.5	1.585551	4.68	1E-10
88				#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
89	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
90	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
91	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
92	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
93	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
94	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
95	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
96	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
97	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
98	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
99	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
100	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
101	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
102	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
103	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
104	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
105	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
106	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!
107	#VALUE!	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!	#####	#####	#####	#VALUE!	#####	#VALUE!	#####	#VALUE!

23

Company: Mewbourne Oil Company
 Well: Mockingbird 16-17 Fed Com #526H
 County: Eddy County, New Mexico (NAD 83)
 Rig: Patterson 245
 Wellbore: Wellbore #1
 Design: Design #1
 Date: 10/16, December 01 2023



OIL COMPANY

True North: -0.14°
 Magnetic North: 6.79°

Magnetic Field Strength: 47551.2nT
 Dip Angle: 60.35°
 Date: 12/2/2023
 Model: HDGM2023

To convert a Magnetic Direction to a Grid Direction, Add 6.791°
 To convert a Magnetic Direction to a True Direction, Add 6.933° East
 To convert a True Direction to a Grid Direction, Subtract 0.142°

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

WELL DETAILS: Mockingbird 16-17 Fed Com #526H

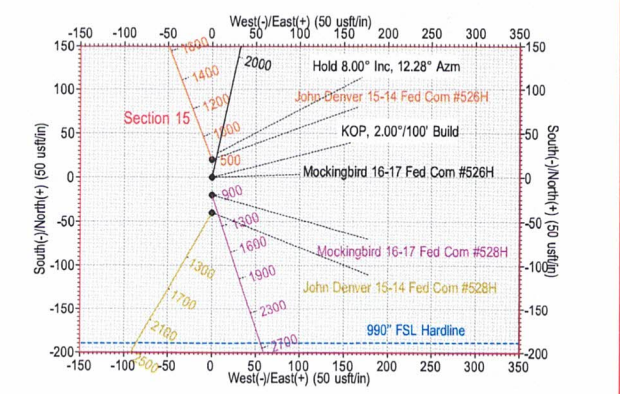
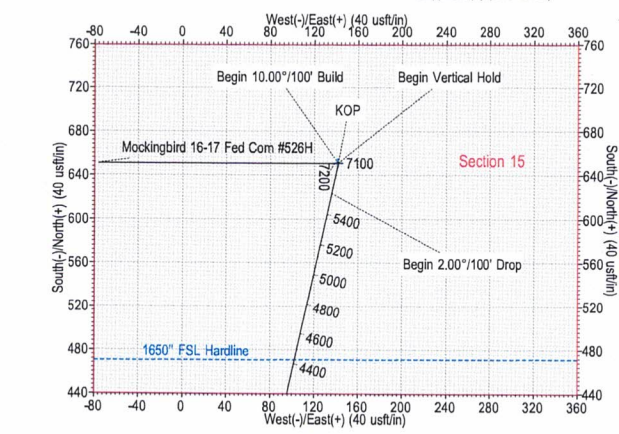
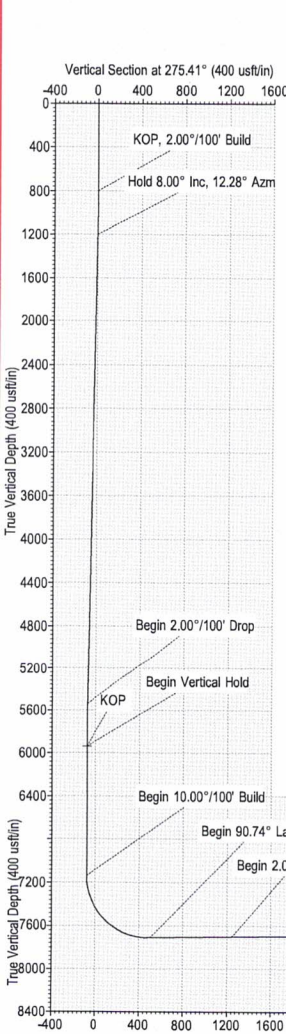
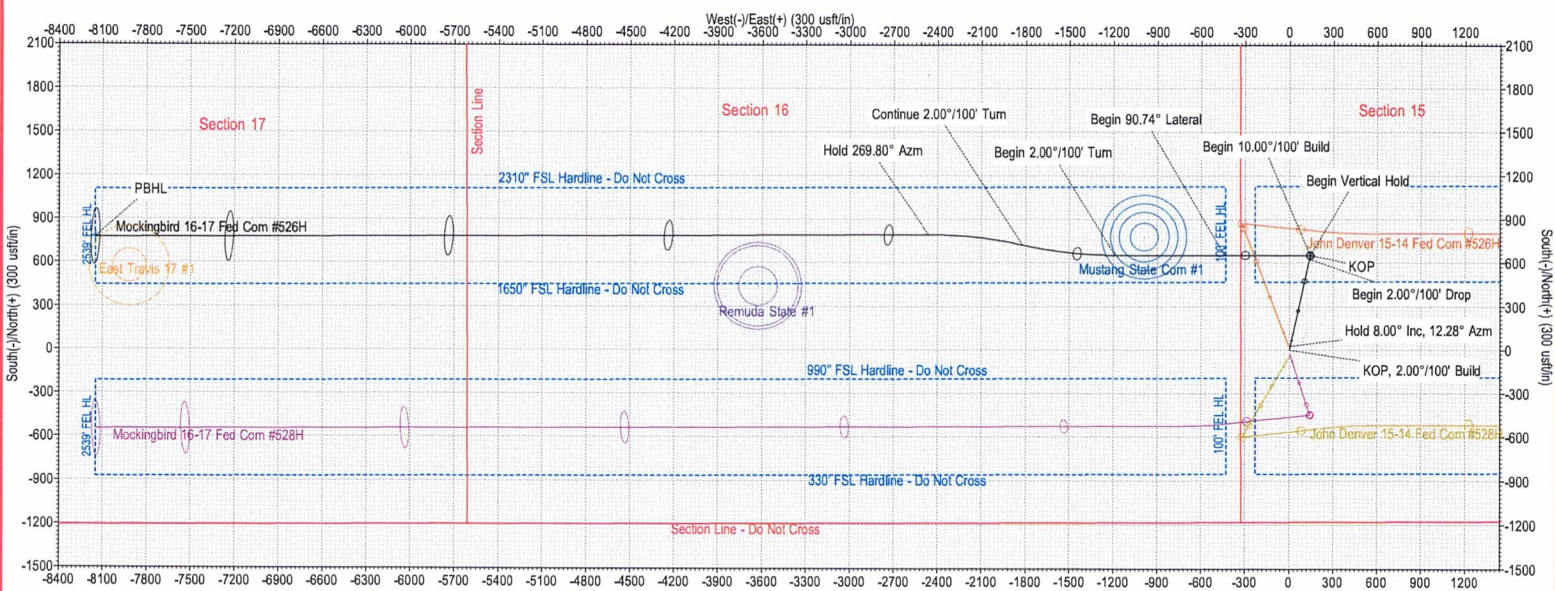
+N/-S	+E/-W	GL @ 3493.00	Well @ 3521.00usft (Patterson 245)	Latitude	Longitude
0.00	0.00	634309.30	622267.90	32.743477	-104.070112

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP	5938.00	650.73	141.66	634960.03	622409.56	32.745265	-104.069646
PBHL	7611.00	772.10	-8149.10	635081.40	614118.80	32.745652	-104.096610

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	15812.35	Design #1 (Wellbore #1)	MWD+HRGM

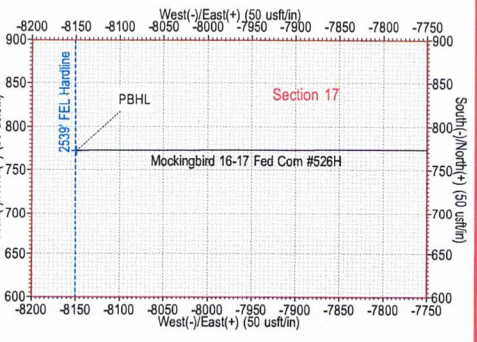


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.00	KOP, 2.00°/100' Build
1200.12	8.00	12.28	1198.82	27.26	5.93	2.00	12.281	-3.34	Hold 8.00° Inc, 12.28° Azm
5583.16	8.00	12.28	5539.18	623.48	135.73	0.00	0.000	-76.31	Begin 2.00°/100' Drop
5983.28	0.00	0.00	5938.00	650.73	141.66	2.00	180.000	-79.65	Begin Vertical Hold
7183.37	0.00	0.00	7138.09	650.73	141.66	0.00	0.005	-79.65	Begin 10.00°/100' Build
8090.77	90.74	270.00	7711.00	650.73	-438.70	10.00	270.000	498.12	Begin 90.74° Lateral
8840.77	90.74	270.00	7701.31	650.73	-1188.63	0.00	0.000	1244.71	Begin 2.00°/100' Turn
9478.22	90.74	282.75	7693.05	721.36	-1820.78	2.00	89.917	1880.70	Continue 2.00°/100' Turn
10125.67	90.74	269.80	7684.64	791.97	-2462.93	2.00	-89.907	2526.65	Hold 269.80° Azm
15812.35	90.74	269.80	7611.00	772.10	-8149.10	0.00	0.000	8185.80	PBHL

Mockingbird 16-17 Fed Com 526H
 SHL: 1180' FSL & 330' FWL
 PBHL: 1980' FSL & 2539' FEL

1650' FSL Hard Line
 2310' FSL Hard Line
 2539' FEL Hard Line
 100' FEL Hard Line



24

Company: Mewbourne Oil Company
 Well: Mockingbird 16-17 Fed Com #528H
 County: Eddy County, New Mexico (NAD 83)
 Rig: Patterson 245
 Wellbore: Wellbore #1
 Design: Design #1
 Date: 10:03, December 01 2023

OIL COMPANY

True North: -0.14°
 Magnetic North: 6.79°
 Magnetic Field Strength: 47551.2nT
 Dip Angle: 60.35°
 Date: 12/2/2023
 Model: HDGM2023

To convert a Magnetic Direction to a Grid Direction, Add 6.791°
 To convert a Magnetic Direction to a True Direction, Add 6.933° East
 To convert a True Direction to a Grid Direction, Subtract 0.142°

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

+N/-S	+E/-W	GL @ 3493.00	Well @ 3521.00usft (Patterson 245)
0.00	0.00	634289.40	622268.00
		32.743423	32.743423
			Latitude
			Longitude
			-104.070112

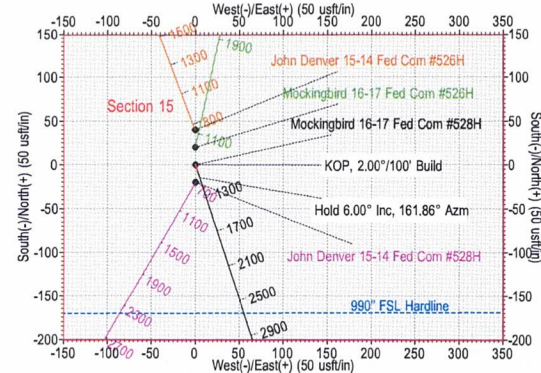
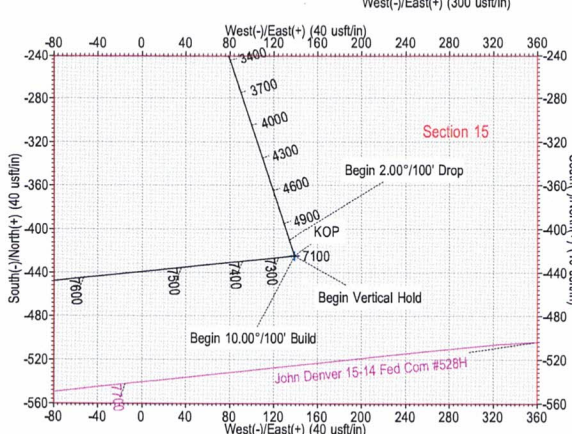
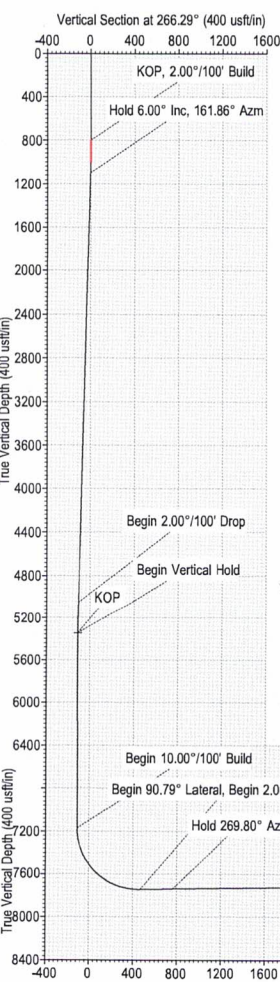
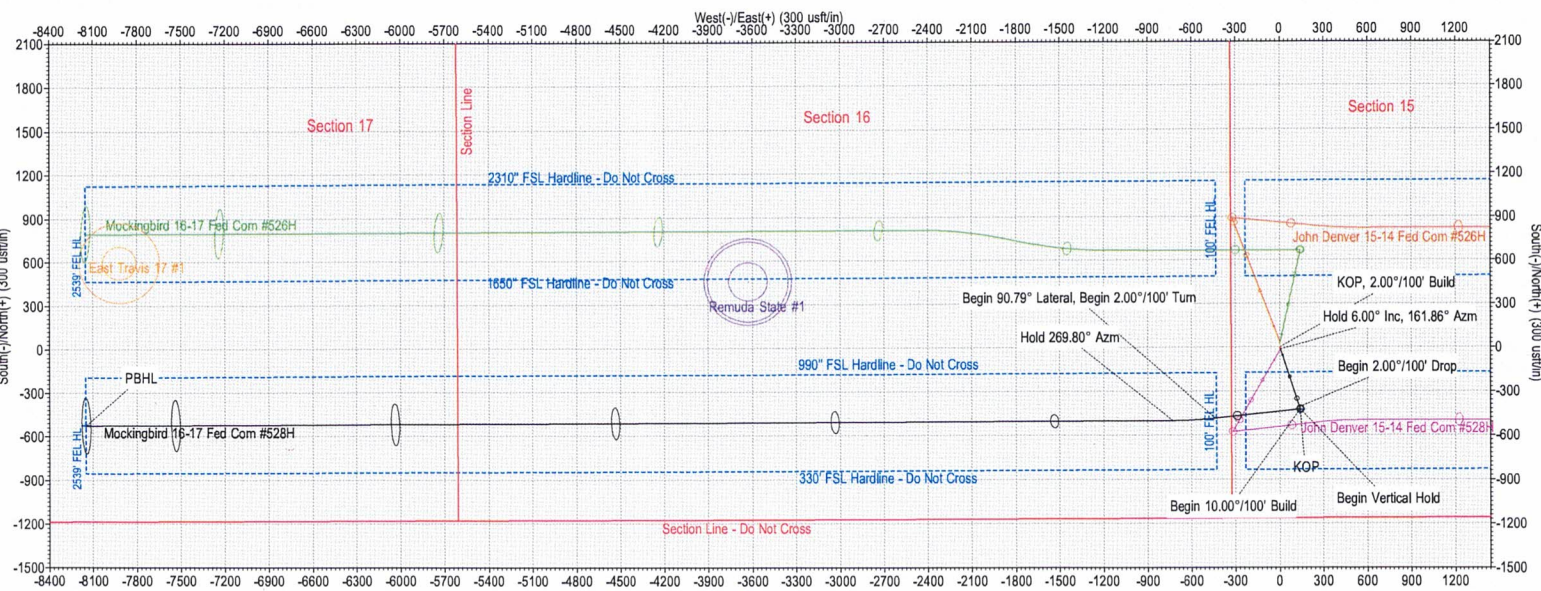


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP	5348.00	-424.54	139.07	633864.86	622407.07	32.742255	-104.069663
PBHL	7638.00	-527.60	-8145.40	633761.80	614122.60	32.742025	-104.096608

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	15810.06	Design #1 (Wellbore #1)	MWD+HRGM

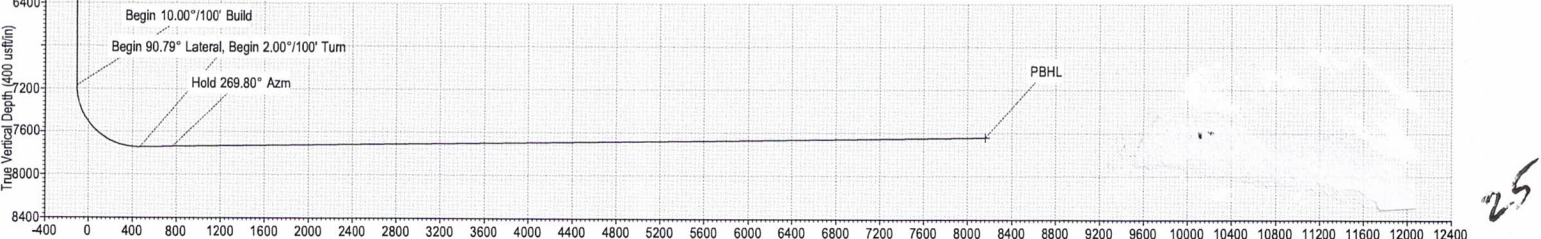
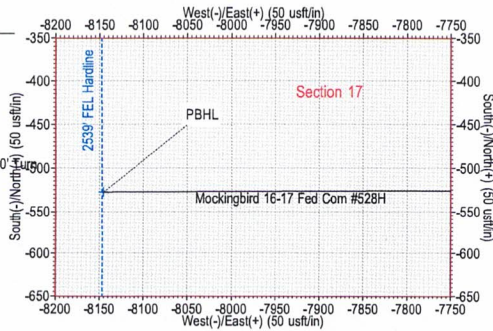


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.00	KOP, 2.00"/100' Build
1100.20	6.00	161.86	1099.65	-14.93	4.89	2.00	161.862	-3.92	Hold 6.00" Inc, 161.86" Azm
5070.67	6.00	161.86	5048.35	-409.61	134.18	0.00	0.000	-107.42	Begin 2.00"/100' Drop
5370.88	0.00	0.00	5348.00	-424.54	139.07	2.00	180.000	-111.34	Begin Vertical Hold
7193.98	0.00	0.00	7171.10	-424.54	139.07	0.00	0.000	-111.34	Begin 10.00"/100' Build
8101.88	90.79	263.95	7744.00	-485.76	-438.55	10.00	263.950	469.03	Begin 90.79" Lateral, Begin 2.00"/100'
8394.34	90.79	269.80	7739.97	-501.70	-730.43	2.00	89.980	761.33	Hold 269.80" Azm
15810.06	90.79	269.80	7638.00	-527.60	-8145.40	0.00	0.000	8162.47	PBHL

Mockingbird 16-17 Fed Com 528H
 SHL: 1160' FSL & 330' FWL
 PBHL: 660' FSL & 2538' FEL

330' FSL Hard Line
 990' FSL Hard Line
 2539' FEL Hard Line
 100' FEL Hard Line



25