

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

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

Case No. 20930

INDEX

Application

Hearing Exhibits

1. Self-Affirmed Statement of Tyler Jolly
 - A. Midland Map
 - B. List of Tract Ownership
 - C. Oil Conservation Division C-102 forms
 - D. Summary of Communications and Sample of Mewbourne Oil Company well proposal letter
 - E. Sample Notice Letter and associated green return receipt cards
 - F. Affidavit of Publication
 - G. Authorization for Expenditure for proposed wells
2. Self-Affirmed Statement of Tyler Hill
 - A. Structure map of the Wolfcamp formation
 - B. North to south cross section for proposed wells
 - C. Production Table
 - D. Standard Planning Report for the Starship 28-21 W00B Fee #1H well
 - E. Standard Planning Report for the Starship 28-21 W00B Fee #2H well

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

Case No. 20930

APPLICATION

Pursuant to NMSA § 70-2-17, Mewbourne Oil Company ("Mewbourne") applies for an order pooling all uncommitted mineral interests in the Wolfcamp formation in a 640-acre, more or less, standard horizontal spacing unit comprised of the E/2 of Section 28 and the E/2 of Section 21, Township 23 South, Range 28 East in Eddy County, New Mexico. In support of its application, Mewbourne states:

1. Mewbourne (OGRID No. 14744) is a working interest owner in the proposed horizontal spacing unit and has the right to drill wells thereon.
2. The horizontal spacing unit will be dedicated to the following wells:
 - a. the Starship 28-21 W00B Fee #1H well, which will be horizontally drilled from a surface location in Unit P in Section 28 to a bottom hole location in Unit B in Section 21; and
 - b. the Starship 28-21 W00B Fee #2H well, which will be horizontally drilled from a surface location in Unit P in Section 28 to a bottom hole location in Unit B in Section 21.
3. The completed intervals for the wells will be orthodox.
4. Mewbourne has undertaken diligent, good-faith efforts to obtain voluntary agreements from all mineral interest owners to participate in the drilling of the wells but has been unable to obtain voluntary agreements from all of the mineral interest owners.

5. The pooling of all uncommitted mineral interests in the Wolfcamp formation underlying the E/2 of Section 28 and the E/2 of Section 21 will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

6. In order to allow Mewbourne to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted mineral interests in the horizontal spacing unit should be pooled.

WHEREFORE, Mewbourne requests that this application be set for hearing on December 12, 2019 and that, after notice and hearing, the Division enter an order:

A. Pooling all uncommitted mineral interests in the Wolfcamp formation underlying the E/2 of Section 28 and the E/2 of Section 21, Township 23 South, Range 28 East.

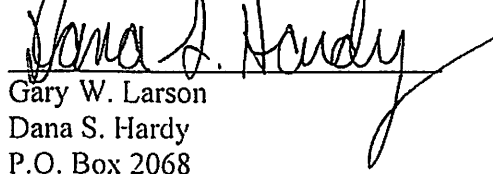
B. Designating Mewbourne as the operator of the Starship 28-21 W0OB Fee #1H and Starship 28-21 W0OB Fee #2H wells.

C. Authorizing Mewbourne to recover its costs of drilling, equipping, and completing the Starship 28-21 W0OB Fee #1H and Starship 28-21 W0OB Fee #2H wells and allocating the costs among the wells' working interest owners;

D. Approving the actual operating charges and costs of supervision during drilling and after completion, together with a provision for adjusting the rates pursuant to the COPAS accounting procedure; and

E. Imposing a 200% penalty for the risk assumed by Mewbourne in drilling and completing the Starship 28-21 W0OB Fee #1H and Starship 28-21 W0OB Fee #2H wells against any mineral interest owner who does not voluntarily participate in the drilling of the wells.

HINKLE SHANOR LLP

A handwritten signature in black ink, appearing to read "Dana S. Hardy", is written over a horizontal line.

Gary W. Larson

Dana S. Hardy

P.O. Box 2068

Santa Fe, NM 87504-2068

Phone: (505) 982-4554

Facsimile: (505) 982-8623

glarson@hinklelawfirm.com

dhardy@hinklelawfirm.com

Counsel for Mewbourne Oil Company

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
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**APPLICATION OF MEWBOURNE OIL
COMPANY FOR COMPULSORY POOLING,
EDDY COUNTY, NEW MEXICO**

Case No. 20930

**SELF-AFFIRMED STATEMENT OF
TYLER JOLLY**

1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein.

2. I am a landman for Mewbourne Oil Company ("Mewbourne"). I have had direct involvement with Mewbourne's development of the 640-acre, more or less, standard horizontal spacing unit ("HSU") that is the subject of Mewbourne's application in this case. I have previously testified before the Division, and my qualifications as an expert in petroleum land matters were accepted.

3. A Midland Map with the HSU highlighted is attached hereto as Exhibit A. The HSU is comprised of the E/2 of Section 28 and the E/2 of Section 21, Township 23 South, Range 28 East in Eddy County, New Mexico.

4. Mewbourne seeks to pool all uncommitted interests in the Wolfcamp formation underlying the HSU. A list of the uncommitted interests and their respective working interests is attached hereto as Exhibit B. 84.63% of the working interests are committed to the proposed well.

5. The HSU will be dedicated to the following wells:

a. the Starship 28-21 W00B Fee #1H well, which will be horizontally drilled from a surface location in Unit P in Section 28 to a bottom hole location in Unit B in Section 21; and

Case No. 20930

Mewbourne Oil

Exhibit 1

b. the Starship 28-21 W00B Fee #2H well, which will be horizontally drilled from a surface location in Unit P in Section 28 to a bottom hole location in Unit B in Section 21.

6. The C-102s for the proposed wells are attached as Exhibit C.

7. There are no depth exceptions in the Wolfcamp formation.

8. I sent well proposal letters to the uncommitted interests on October 7, 2019, and I then had follow-up communications with them. A title opinion subsequently identified several additional uncommitted interests, all of whom are unlocatable. A sample of my well proposal letter and a summary of my follow-up contacts with the uncommitted interests are attached as Exhibit D.

9. In my opinion, Mewbourne has made a good faith effort to obtain the voluntary joinder of uncommitted interests in the proposed well.

10. Notice of Mewbourne's application and the Division hearing was provided to the locatable uncommitted interests by certified mail. A sample of the notice letter and the associated green cards are attached hereto as Exhibit E.

11. Notice of Mewbourne's application and the Division hearing was also published. The affidavit of publication is attached as Exhibit F.

12. Mewbourne has the right to pool any overriding royalty owners in the HSU.

13. The AFEs for the proposed wells are attached hereto as Exhibit G. The estimated cost of the well is fair and reasonable and is comparable to the cost of other wells of similar depth and length drilled in Eddy County.

14. Mewbourne requests overhead and administrative rates of \$8,000 per month while the well is being drilled and \$800 per month while the well is producing. These rates are fair, and

are comparable to the rates charged by Mewbourne and by other operators in the vicinity. They are also the rates set forth in the Joint Operating Agreement for the HSU. Mewbourne further requests that the rates be adjusted periodically in accordance with the COPAS Accounting Procedure.

15. Mewbourne requests that it be designated the operator of the wells.

16. Mewbourne also requests that a 200% risk charge be assessed against the uncommitted interests if they are non-consenting working interest owners.

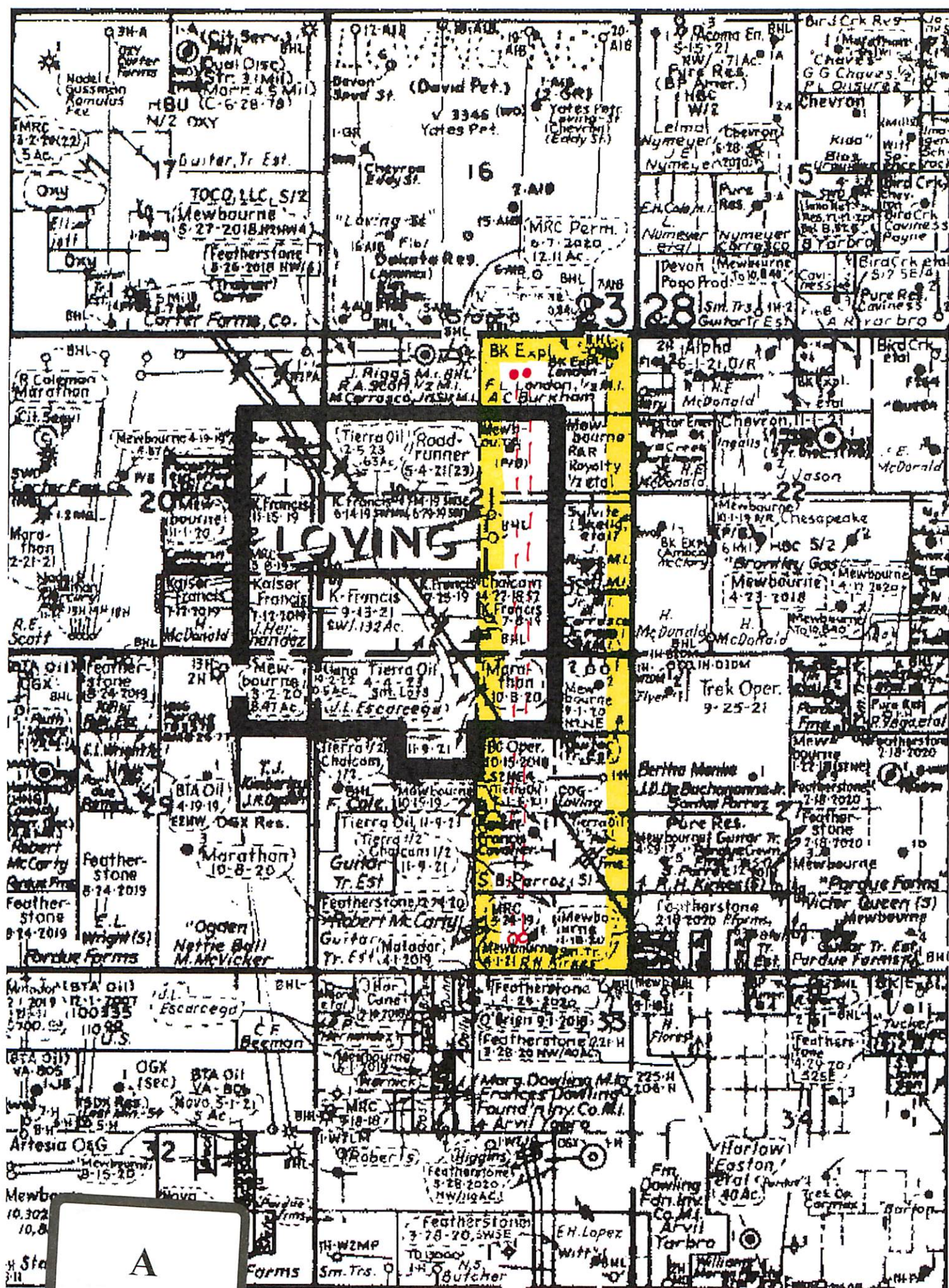
17. The exhibits attached hereto were either prepared by me or under my supervision, or were compiled from company business records.

18. In my opinion, the granting of Mewbourne's application would serve the interests of conservation and the prevention of waste.

19. 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 18 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.


Tyler Jolly

12-11-2019
Date



Tract Ownership Starship 28-21 W00B Fee #1H & #2H

Entity/Individual	Interest
Mewbourne Oil Company	78.82381391957260000%
COG Production LLC	5.44704850000000000%
MRC Permian Company	4.68095400000000000%
Tierra Oil Company, LLC	2.18873639584523000%
Burnett Oil Company	2.14375000000000000%
Juneau Oil & Gas, LLC	2.14375000000000000%
MRC Permian LKE Company, LLC	1.62760400000000000%
Prism Energy, LLC	0.70312500000000000%
BTA Oil Producers, LLC	0.62500000000000000%
Skyhouse, LLC	0.14062500000000000%
Kaiser-Francis Oil Company	0.21158571393115100%
Trinidad Armendariz, separate property	0.03847012980566380%
Melvin L. Balderrama and Olidia Balderrama, husband and wife	0.02001067235859130%
Ysabel M. Calderon, or if deceased, her unknown heirs	0.03986622322603060%
The heirs and devisees of Juan Rios and Maria Rios, husband and wife	0.02109652279665440%
Martha V. Rodriguez, martial status unknown	0.03304087761534840%
Angel Rodriguez and Anna Rodriguez, husband and wife	0.03784964384105630%
Antonio E. Gonzalez or, if deceased, his unknown heirs (1/2 interest)	0.66896143059244100%
Guadalupe Franco and Mary Franco, husband and wife	0.04700181181901670%
Antonio E. Gonzalez or, if deceased, his unknown heirs	0.04700181181901670%
Jude Andrew Oslund, marital status unknown	0.04700181181901670%
Traders of Carlsbad, Inc.	0.04700181181901670%
Mauro Granado and Rita Granado for life, remainder to Ruben Granado	0.04700181181901670%
Alicia M. Gutierrez, marital status unknown	0.04126231664639750%
Roman A. Gonzalez and Cheri R. Gonzalez, husband and wife, as joint tenants	0.06422029733687430%
Ray Gilmore, or if deceased, his unknown heirs	0.06422029733687430%
Total	100.000000000000000%

Entities and Individuals in Red indicate parties being pooled

Total Interest being pooled -

15.37494968458220000%

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

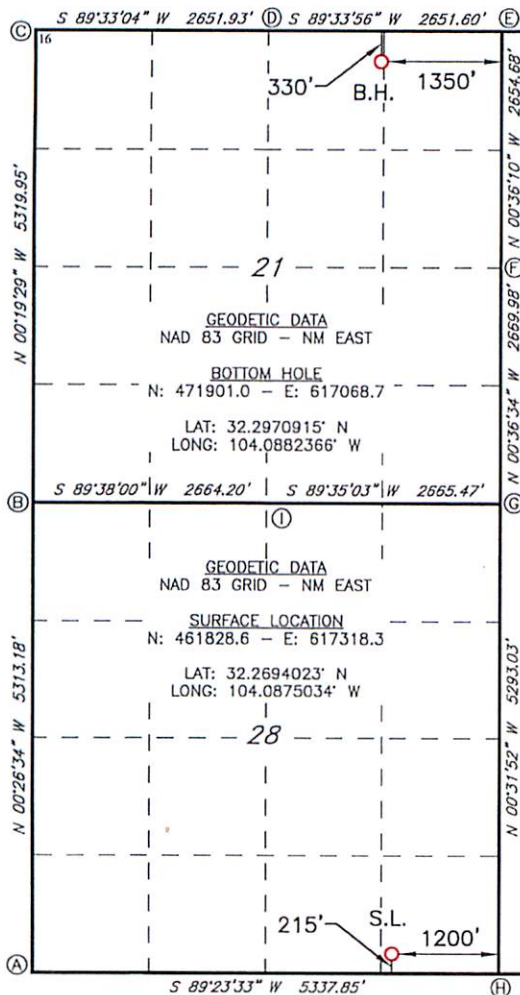
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46353		² Pool Code 98220		³ Pool Name Purple Sagei Wolfcamp (Gas)	
⁴ Property Code 326189		⁵ Property Name STARSHIP 28/21 WOOB FEE			⁶ Well Number 1H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3063'
¹⁰ Surface Location					
UL or lot no. P	Section 28	Township 23S	Range 28E	Lot Idn	Feet from the 215
				North/South line SOUTH	Feet From the 1200
				East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. B	Section 21	Township 23S	Range 28E	Lot Idn	Feet from the 330
				North/South line NORTH	Feet from the 1350
				East/West line EAST	County EDDY
¹² Dedicated Acres 640		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 100D NAIL
N: 461569.8 - E: 613183.9

B: FOUND 1/2" REBAR
N: 466881.6 - E: 613142.8

C: FOUND COTTON SPINDLE
N: 472200.3 - E: 613112.7

D: FOUND 1/2" REBAR
N: 472221.1 - E: 615763.9

E: FOUND COTTON SPINDLE
N: 472241.2 - E: 618414.9

F: FOUND COTTON SPINDLE
N: 469587.2 - E: 618442.8

G: FOUND COTTON SPINDLE
N: 466918.0 - E: 618471.2

H: FOUND 1/2" REBAR
N: 461626.4 - E: 618520.2

I: FOUND COTTON SPINDLE
N: 466898.7 - E: 615806.4

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.

9-20-2019

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



Job No: LS19090918

C

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

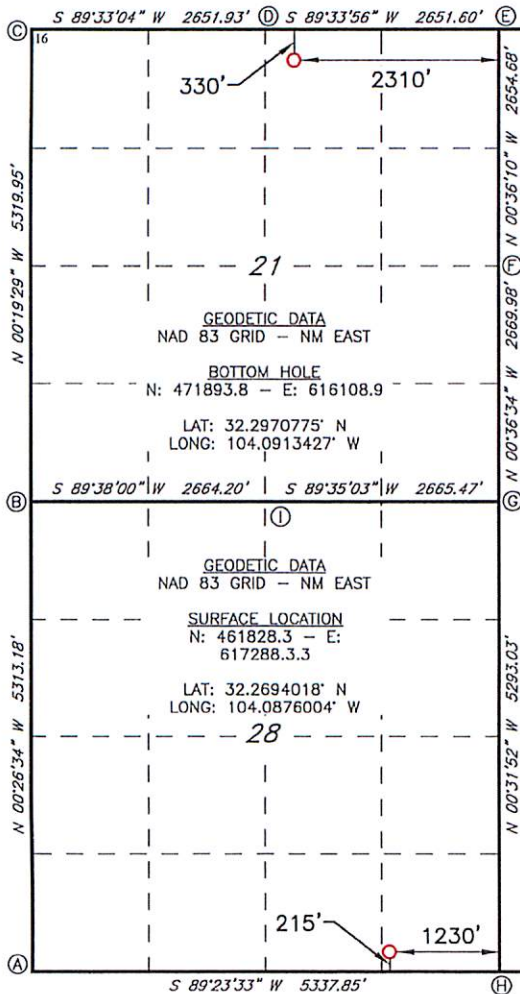
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46352		² Pool Code 98220		³ Pool Name Purple Sage Wolfcamp (Gas)	
⁴ Property Code 326189		⁵ Property Name STARSHIP 28/21 WOOB FEE			⁶ Well Number 2H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3063'
¹⁰ Surface Location					
UL or lot no. P	Section 28	Township 23S	Range 28E	Lot Idn 215	Feet from the 1230
		North/South line SOUTH		East/West line EAST	
				County EDDY	
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. B	Section 21	Township 23S	Range 28E	Lot Idn 330	Feet from the 2310
		North/South line NORTH		East/West line EAST	
				County EDDY	
¹² Dedicated Acres 640		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.



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.

9-20-2019

Date of Survey _____
Signature and Seal of Professional Surveyor _____

19680
Certificate Number



Job No: LS19090919

Summary of Communications
Starship 28-21 W00B Fee #1H & #2H
E2 of Section 28 & E2 of Section 21, T23S, R28E, Eddy County, NM

COG Production LLC

1. October 7, 2019, sent well proposal via certified mail. Proof of Delivery is attached.
2. Email chain discussing technical information between Tyler Jolly with Mewbourne Oil Company and Sarah Byrne with COG Production LLC beginning October 10, 2019 through November 4, 2019.
3. Email chain discussing Starship proposals between Tyler Jolly with Mewbourne Oil Company and Brent Sawyer with COG Production LLC on November 12, 2019.

MRC Permian Company and MRC Permian LKE Company, LLC

1. October 7, 2019, sent well proposal via certified mail. Proof of delivery is attached.
2. Email chain discussing technical information between Tyler Jolly with Mewbourne Oil Company and David Johns with Matador Resources Company beginning October 21, 2019 through December 4, 2019.

Burnett Oil Company

1. October 7, 2019 sent well proposal via certified mail. Proof of delivery is attached.
2. Email chain discussing Burnett's participation between Tyler Jolly with Mewbourne Oil Company and Ruth Trevino with Burnett Oil Company beginning October 21, 2019 through November 5, 2019.

Kaiser-Francis Oil Company

1. October 7, 2019 sent well proposal via certified mail. Proof of delivery is attached.
2. Email chain discussing title between Tyler Jolly with Mewbourne Oil Company and Mike Maxey with Kaiser-Francis Oil Company beginning November 3, 2019 through November 21, 2019.

Trinidad Armendariz

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Melvin and Olidia Balderrama

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.

D

3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Ysabel M. Calderon

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Heirs and Devisees of Juan & Maria Rios

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Martha V. Rodriguez

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Email from chain between Martha Ybarra and Tyler Jolly with Mewbourne Oil Company working to confirm Martha Ybarra is one and the same person as Martha Rodriguez.

Angel and Anna Rodriguez

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Antonio E. Gonzalez

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Guadalupe and Mary Franco

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Jude Andrew Oslund

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Traders of Carlsbad, Inc.

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Company to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Mauro and Rita Granado

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Alicia M. Gutierrez

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Roman and Cheri Gonzalez

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

Ray Gilmore

1. Name searches and address searches conducted in county records, online, and phone book.
2. November 26, 2019 sent well proposal via certified mail. Proof of delivery is attached. Unsure if address is accurate.
3. Individual to this point appears to be unresponsive/unlocatable as interest was pooled in Loving Townsite 21 wells drilled in 2017.

MEWBOURNE OIL COMPANY

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

October 7, 2019

Via Certified Mail

MRC Permian Company
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240
Attn: Nick Weeks

Re: **Starship 28-21 W0OB Fee #1H**
Starship 28-21 W0OB Fee #2H
E2 of Section 28 & E2 of Section 21
T23S, R28E, Eddy County, New Mexico

Ladies and Gentlemen:

Mewbourne Oil Company, as Operator, hereby proposes drilling the following two (2) horizontal Wolfcamp tests:

- 1) Starship 28-21 W0OB Fee #1H – APD in process
Surface Location: 215' FSL, 1200' FEL, Section 28, UL O
Bottom Hole Location: 330' FNL, 1350' FEL, Section 21, UL B
Proposed Total Vertical Depth: 9,626'
Proposed Total Measured Depth: 19,443'
Formation: Wolfcamp
- 2) Starship 28-21 W0OB Fee #2H – APD in process
Surface Location: 215' FSL, 1230' FEL, Section 28, UL O
Bottom Hole Location: 330' FNL, 2310' FEL, Section 21, UL B
Proposed Total Vertical Depth: 9,616'
Proposed Total Measured Depth: 19,480'
Formation: Wolfcamp

In the event MRC Permian Company elects to participate in the proposed wells, please execute the enclosed AFEs and Joint Operating Agreement before returning them to the undersigned within thirty (30) days. Our Joint Operating Agreement provides for a Drilling Well Rate of \$8,000 per month and a Producing Well Rate of \$800 per month. Please enclose your most current well information requirements so that we may supply well data when available.

Starship 28-21 W0OB Fee #1H
Starship 28-21 W0OB Fee #2H
October 7, 2019
Page 2 of 2

Please contact me at (432) 682-3715 or via email at tjolly@mewbourne.com if you have any questions or need more information.

Very truly yours,

MEWBOURNE OIL COMPANY


Tyler Jolly
Landman

Enclosures



HINKLE SHANOR LLP

ATTORNEYS AT LAW

PO BOX 2068

SANTA FE, NEW MEXICO 87504

505-982-4554 (FAX) 505-982-8623

WRITER:

Dana S. Hardy, Partner
dhardy@hinklelawfirm.com

November 19, 2019

VIA CERTIFIED MAIL

BTA Oil Producers, LLC
104 S. Pecos
Midland, TX 79701

Re: Mewbourne Oil Company NMOCD Application

Dear Sir or Madam:

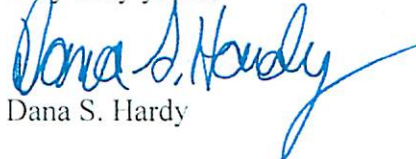
Enclosed is a copy of an application for compulsory pooling that Mewbourne Oil Company ("Mewbourne") has filed with the New Mexico Oil Conservation Division ("the Division"). Mewbourne's application requests the pooling of all uncommitted mineral interests in the Wolfcamp formation in a 640-acre, more or less, standard horizontal spacing unit comprised of the E/2 of Section 28 and the E/2 of Section 21, Township 23 South, Range 28 East in Eddy County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, December 12, 2019 in Porter Hall at the Division's offices located at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. BTA Oil Producers, LLC ("BTA") is not required to attend this hearing, but as an owner of an interest that may be affected by Mewbourne's application, it may appear at the hearing and present testimony. If BTA does not appear at that time and become a party of record, it will be precluded from contesting the matter at a later date.

A party appearing in a Division case is required by the Division's Rules to file a Pre-Hearing Statement, which in this matter must be filed no later than Thursday, December 5, 2019. The Pre-Hearing Statement must be filed with the Division's Santa Fe office at the address above, and should include: the name of the party and the party's attorney; a concise statement of the case; the name(s) of the witness(es) the party will call to testify at the hearing; the approximate amount of time the party will need to present the party's case; and an identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to me.

Thank you for your attention to this matter.

Very truly yours,


Dana S. Hardy

DSH/kk
Enclosure



PO BOX 10
ROSWELL, NEW MEXICO 88202
575-622-6510
(FAX) 575-623-9332

PO BOX 1720
ARTESIA, NEW MEXICO 88211
575-622-6510
(FAX) 575-746-6316

PO BOX 2068
SANTA FE, NEW MEXICO 87504
505-982-4554
(FAX) 505-982-8623

7601 JEFFERSON ST NE • SUITE 180
ALBUQUERQUE, NEW MEXICO 87109
505-858-8320
(FAX) 505-858-8321

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X <i>[Signature]</i> ☐ Agent ☐ Addressee	
1. Article Addressed to: BTA Oil Producers, LLC 104 S. Pecos Midland, TX 79701		B. Received by (Printed Name) <i>Taylor McTear</i> C. Date of Delivery <i>11/22/19</i>	
2. Article Number (Transfer from service label) 7018 2290 0000 3427 7921		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
Barcode: 9590 9402 4582 8278 6035 53		3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		<i>Starship</i> Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X <i>[Signature]</i> ☐ Agent ☐ Addressee	
1. Article Addressed to: COG Production, LLC Attn: Outside Operated Properties 600 W. Illinois Ave. Midland, TX 79701		B. Received by (Printed Name) <i>T. J. Brown</i> C. Date of Delivery <i>11/22/19</i>	
2. Article Number (Transfer from service label) 7018 2290 0000 3432 4984		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
Barcode: 9590 9402 4582 8278 6035 39		3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		<i>Starship</i> Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X <i>[Signature]</i> ☐ Agent ☐ Addressee	
1. Article Addressed to: MRC Permian LKE Company, LLC Attn: David Johns 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240		B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>11/22/19</i>	
2. A 7018 2290 0000 3432 4977		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
Barcode: 9590 9402 4582 8278 6035 22		3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☒ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		<i>Starship</i> Domestic Return Receipt	

PS Form 3811, July 2015 PSN 7530-02-000-9053

2. Article Number (Transfer from carrier label) 7018 2290 0000 3432 4960

9590 9402 4582 8278 6035 15

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Restricted Delivery

3. Service Type
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

1. Attn: David Johns
 5400 LBJ Freeway, Suite 1500
 Dallas, TX 75240

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature
 B. Received by (Printed Name)
 C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No
 If YES, enter delivery address below:

COMPLETE THIS SECTION ON DELIVERY

Domestic Return Receipt

PS Form 3811, July 2015 PSN 7530-02-000-9053

2. Article Number (Transfer from carrier label) 7018 2290 0000 3432 4922

9590 9402 4582 8278 6034 78

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Restricted Delivery

3. Service Type
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

1. Attn: Kaiser-Francis Oil Company
 P.O. Box 21468
 Tulsa, OK 74121-1468

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature
 B. Received by (Printed Name)
 C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No
 If YES, enter delivery address below:

COMPLETE THIS SECTION ON DELIVERY

Domestic Return Receipt

PS Form 3811, July 2015 PSN 7530-02-000-9053

2. Article Number (Transfer from carrier label) 7018 2290 0000 3432 4939

9590 9402 4582 8278 6034 85

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Restricted Delivery

3. Service Type
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

1. Tierra Oil Company, LLC
 P.O. Box 1048
 Santa Fe, NM 87504

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature
 B. Received by (Printed Name)
 C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☐ No
 If YES, enter delivery address below:

COMPLETE THIS SECTION ON DELIVERY

Domestic Return Receipt

Carlsbad Current Argus.

PRINTED BY THE CARLSBAD CURRENT ARGUS

Affidavit of Publication

Ad # 0003924965

This is not an invoice

HINKLE SHANOR LLP
218 MONTEZUMA

SANTA FE, NM 87501

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

November 28, 2019

This is to notify all interested parties, including BTA Oil Producers, LLC, Burnett Oil Company, COG Production, LLC, Kaiser-Francis Oil Company, MRC Permian Company, MRC Permian LKE Company, LLC, Prism Energy, LLC, Skyhouse, LLC, Tierra Oil Company, LLC, Trinidad Armendariz, Melvin L. Balderrama & Olida Balderrama, Ysabel M. Calderon, Heirs & devisees of Juan Rios & Maria Rios, Martha V. Rodriguez, Angel Rodriguez & Anna Rodriguez, Antonio E. Gonzalez, Guadalupe Franco & Mary Franco, Antonio E. Gonzalez, Jude Andrew Osland, Traders of Carlsbad, Inc., Mauro Granado & Rita Granado, Alicia M. Gutierrez, Roman A. Gonzales & Cheri Gonzales, Ray Gilmore and their successors, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Mewbourne Oil Company (Case No. 20930) at 8:15 a.m. on December 12, 2019 in Porter Hall at 1220 South St. Francis Drive, Santa Fe, New Mexico. Applicant Mewbourne Oil Company seeks an order pooling all uncommitted mineral interests in the Wolfcamp formation in a 640-acre, more or less, standard horizontal spacing unit comprised of the E/2 of Section 28 and the E/2 of Section 21, Township 23 South, Range 28 East in Eddy County, New Mexico. The horizontal spacing unit will be dedicated to the following wells: (1) Starship 28-21 WOOB Fee #1H well, which will be horizontally drilled from a surface location in Unit P in Section 28 to a bottom hole location in Unit B in Section 21; and (2) Starship 28-21 WOOB Fee #2H well, which will be horizontally drilled from a surface location in Unit P in Section 28 to a bottom hole location in Unit B in Section 21. The completed intervals for the wells will be orthodox. Also to be considered will be the costs of drilling and completing the wells and the allocation of the costs, the designation of Mewbourne Oil Company as the operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The wells are located approximately one-half mile east of Loving, New Mexico.

November 28, 2019

Legal Clerk

Subscribed and sworn before me this December 6,
2019:

Shelly Hora

State of WI, County of Brown
NOTARY PUBLIC

8-25-23

My commission expires

SHELLY HORA
Notary Public
State of Wisconsin

Ad # 0003924965

PO #: 1940232

of Affidavits : 1

This is not an invoice

F

MEWBOURNE OIL COMPANY
AUTHORIZATION FOR EXPENDITURE

Well Name: STARSHIP 28/21 W00B FEE #1H		Prospect: STARSHIP 28/21	
Location: SL: 215 FSL & 1200 FEL (28); BHL: 330 FNL & 1350 FEL (21)		County: Eddy	ST: NM
Sec: 28	Blk: 	Survey: 	TWP: 23S RNG: 28E Prop. TVD: 9626 TMD: 19443

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$10,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$75,000	0180-0205	\$25,000
Location / Restoration		0180-0106	\$200,000	0180-0206	\$30,000
Daywork / Turnkey / Footage Drilling 27 days drlg / 3 days comp @ \$21500/d		0180-0110	\$620,000	0180-0210	\$68,900
Fuel 1700 gal/day @ \$2.74/gal		0180-0114	\$134,300	0180-0214	\$383,000
Mud, Chemical & Additives		0180-0120	\$200,000	0180-0220	
Horizontal Drillout Services				0180-0222	\$250,000
Cementing		0180-0125	\$100,000	0180-0225	\$35,000
Logging & Wireline Services		0180-0130	\$2,000	0180-0230	\$467,000
Casing / Tubing / Snubbing Service		0180-0134	\$20,000	0180-0234	\$90,000
Mud Logging		0180-0137	\$30,000		
Stimulation 59 Stg 24.5 MM gal/ 24.5 MM lb				0180-0241	\$2,350,000
Stimulation Rentals & Other				0180-0242	\$235,000
Water & Other		0180-0145	\$50,000	0180-0245	\$445,000
Bits		0180-0148	\$111,100	0180-0248	\$8,000
Inspection & Repair Services		0180-0150	\$40,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$15,000	0180-0258	\$30,000
Completion / Workover Rig				0180-0260	\$10,500
Rig Mobilization		0180-0164	\$150,000		
Transportation		0180-0165	\$20,000	0180-0265	\$20,000
Welding Services		0180-0168	\$5,000	0180-0268	\$15,000
Contract Services & Supervision		0180-0170	\$45,000	0180-0270	\$84,500
Directional Services Includes Vertical Control		0180-0175	\$312,500		
Equipment Rental		0180-0180	\$229,100	0180-0280	\$30,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$5,000	0180-0285	
Intangible Supplies		0180-0188	\$8,000	0180-0288	\$1,000
Damages		0180-0190	\$50,000	0180-0290	\$113,000
ROW & Easements		0180-0192		0180-0292	\$113,000
Pipeline Interconnect				0180-0293	
Company Supervision		0180-0195	\$144,000	0180-0295	\$110,400
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Contingencies 2% (TCP) 2% (CC)		0180-0199	\$51,800	0180-0299	\$98,600
TOTAL			\$2,642,800		\$5,027,900

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0") 400' - 13 3/8" 54.5# J-55 ST&C @ \$38.48/ft		0181-0794	\$16,400		
Casing (8.1" - 10.0") 2550' - 9 5/8" 40# HCL80 LT&C @ \$29.96/ft		0181-0795	\$81,600		
Casing (6.1" - 8.0") 9300' - 7" 29# HCP-110 LT&C @ \$23.84/ft		0181-0796	\$236,800		
Casing (4.1" - 6.0") 10600' - 4 1/2" 13.5# P-110 BPN @ \$12.16/ft				0181-0797	\$137,700
Tubing 8975' - 2 7/8" 6.5# EUE tbg @ \$5.38/ft				0181-0798	\$51,600
Drilling Head		0181-0860	\$40,000		
Tubing Head & Upper Section				0181-0870	\$50,000
Horizontal Completion Tools Completion Liner Hanger				0181-0871	\$70,000
Sucker Rods				0181-0875	
Subsurface Equipment Packer				0181-0880	\$10,000
Artificial Lift Systems Gas Lift Valves				0181-0884	\$15,000
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers				0181-0886	
Tanks - Oil (1/2) 6 - 750 bbl				0181-0890	\$75,000
Tanks - Water (1/2) 5 - 750 bbl				0181-0891	\$57,000
Separation / Treating Equipment 1/2 GB/30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/1/2VRT/				0181-0895	\$90,000
Heater Treaters, Line Heaters 8'x20'x75# HT				0181-0897	\$27,000
Metering Equipment				0181-0898	\$15,000
Line Pipe & Valves - Gathering				0181-0900	\$30,000
Fittings / Valves & Accessories				0181-0906	\$135,000
Cathodic Protection				0181-0908	\$8,000
Electrical Installation				0181-0909	\$25,000
Equipment Installation				0181-0910	\$40,000
Pipeline Construction				0181-0920	\$60,000
TOTAL			\$374,800		\$896,300
SUBTOTAL			\$3,017,600		\$5,924,200

TOTAL WELL COST		\$8,941,800
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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: <u>Jacob Maxey</u>	Date: <u>9/25/2019</u>
Company Approval: <u>m. whitte</u>	Date: <u>9/27/2019</u>
Joint Owner Interest: _____ Amount: _____	Signature: _____
Joint Owner Name: _____	

MEWBOURNE OIL COMPANY

AUTHORIZATION FOR EXPENDITURE

Well Name: STARSHIP 28/21 WOOB FEE #2H		Prospect: STARSHIP 28/21	
Location: SL: 215 FSL & 1230 FEL (28); BHL: 330 FNL & 2310 FEL (21)		County: Eddy	ST: NM
Sec. 28	Blk: 	Survey: 	TWP: 23S RNG: 28E Prop. TVD: 9616 TMD: 19480

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Mud Logging		0180-0137	\$30,000		
Stimulation 59 Stg 24.5 MM gal/ 24.5 MM lb				0180-0241	\$2,350,000
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Contract Services & Supervision		0180-0170	\$45,000	0180-0270	\$64,500
Directional Services Includes Vertical Control		0180-0175	\$312,500		
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Well / Lease Legal		0180-0184	\$5,000	0180-0284	
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Damages		0180-0190	\$50,000	0180-0290	\$113,000
ROW & Easements		0180-0192		0180-0292	\$113,000
Pipeline Interconnect				0180-0293	
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Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
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TOTAL			\$2,642,800		\$5,027,900

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Casing (8.1" - 10.0") 2550' - 9 5/8" 40# HCL80 LT&C @ \$29.96/ft		0181-0795	\$81,600		
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Horizontal Completion Tools Completion Liner Hanger				0181-0871	\$70,000
Sucker Rods				0181-0875	
Subsurface Equipment Packer				0181-0880	\$10,000
Artificial Lift Systems Gas Lift Valves				0181-0884	\$15,000
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers				0181-0886	
Tanks - Oil (1/2) 6 - 750 bbl				0181-0890	\$75,000
Tanks - Water (1/2) 5 - 750 bbl				0181-0891	\$57,000
Separation / Treating Equipment 1/2 GB/30"x10"x1k# 3 ph/36"x15"x1k# Hor 3ph/1/2VRT/				0181-0895	\$90,000
Heater Treaters, Line Heaters 8"x20"x75# HT				0181-0897	\$27,000
Metering Equipment				0181-0898	\$15,000
Line Pipe & Valves - Gathering				0181-0900	\$30,000
Fittings / Valves & Accessories				0181-0906	\$135,000
Cathodic Protection				0181-0908	\$8,000
Electrical Installation				0181-0909	\$25,000
Equipment Installation				0181-0910	\$40,000
Pipeline Construction				0181-0920	\$60,000
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SUBTOTAL			\$3,017,600		\$5,924,200

TOTAL WELL COST	\$8,941,800
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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: <u>Jacob Maxey</u>	Date: <u>9/25/2019</u>
Company Approval: <u><i>m. whitte</i></u>	Date: <u>9/27/2019</u>
Joint Owner Interest: _____ Amount: _____	Signature: _____
Joint Owner Name: _____	

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

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

Case No. 20930

**SELF-AFFIRMED STATEMENT OF
TYLER HILL**

1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein.

2. I am a geologist at Mewbourne Oil Company ("Mewbourne"). I am familiar with the geological matters that pertain to Mewbourne's application. I have previously testified before the Division, and my qualifications as an expert in geology matters were accepted.

3. Attached as Exhibit A is a structure map of the Wolfcamp formation. The map shows that the structure dips to the east. It also shows a line of cross section and the horizontal spacing unit ("HSU") for the proposed Starship 28-21 W00B Fee #1H well and the proposed Starship 28-21 W00B Fee #2H well.

4. Attached as Exhibit B is a south to north cross section. The well logs on the cross section provide a representative sample of the Wolfcamp formation in the area. The target zone for the proposed wells is continuous across the HSU.

5. Attached hereto as Exhibit C is a table containing information from other wells drilled in the vicinity. The preference is for stand-up wells (north to south or south to north), and the completed wells in the area (recent completions) apparently are commercial.

Case No. 20930

Mewbourne Oil

Exhibit 2

6. Attached as Exhibit D is the Standard Planning Report for the Starship 28-21 W00B Fee #1H well. Attached as Exhibit E is the Standard Planning Report for the Starship 28-21 W00B Fee #2H well. The wells' producing intervals will be orthodox.

7. In my opinion, the granting of Mewbourne's application will serve the interests of conservation and the prevention of waste.

8. Based on the information contained in Exhibits A through E, I am able to conclude that:

- a) The HSU is justified from a geologic standpoint;
- b) There is no faulting or other geologic impediment that could adversely affect the drilling of the proposed wells; and
- c) Each quarter-quarter section in the HSU will contribute more or less equally to production.

9. Exhibits A through E were either prepared by me or compiled from company records.

10. 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 9 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.

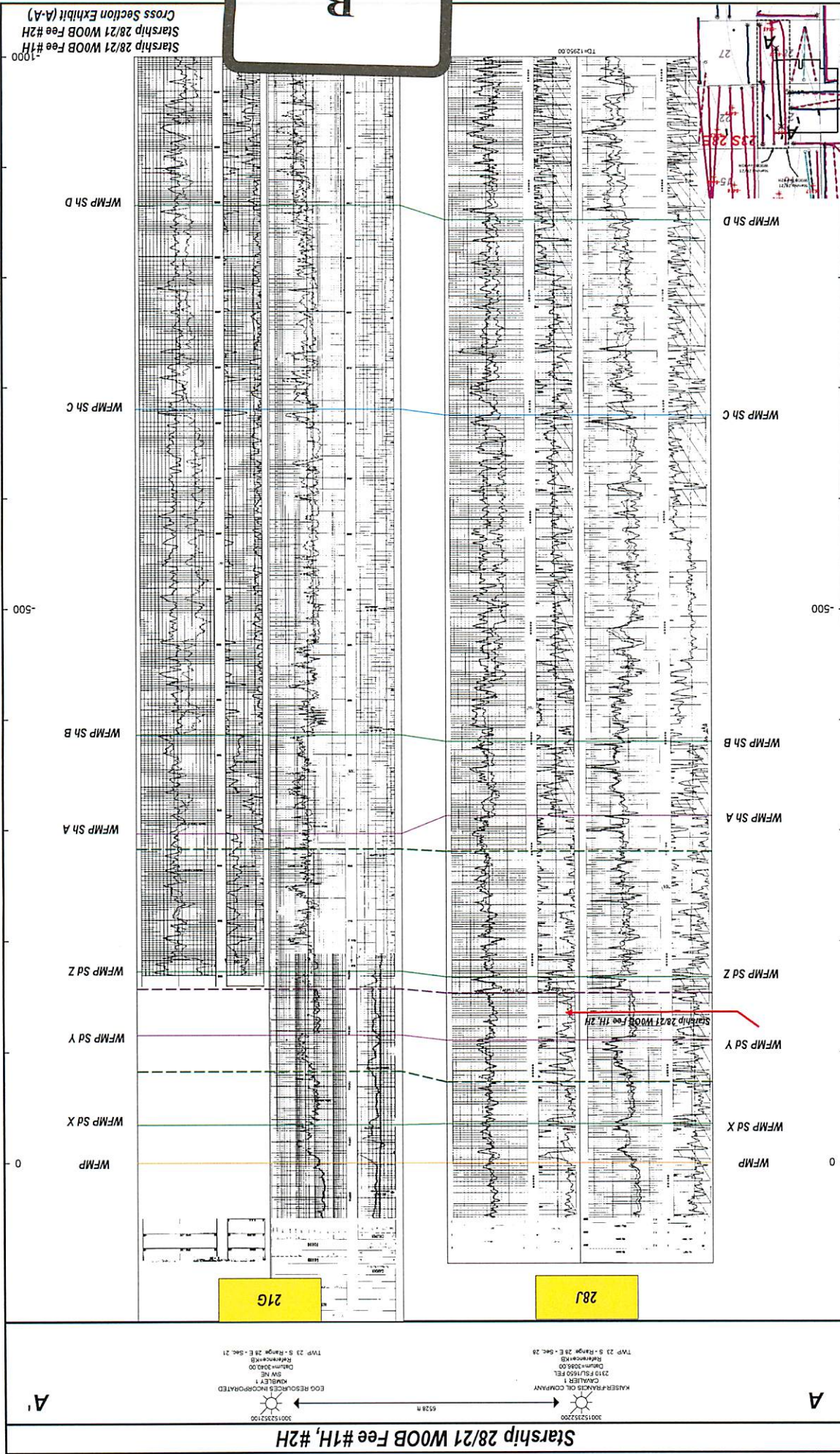

Tyler Hill

12/10/19
Date

Starship 28/21 W00B Fee #1H, #2H

30015232200
KAYSER-FRANKS OIL COMPANY
2310 S. 16th St.
Duluth, MN 55805
TWP 23 S - Range 28 E - Sec. 28
30015232100
KOBLEY 1
SW NE
Reference: DB
Duluth 55805, MN
TWP 23 S - Range 28 E - Sec. 21

A



B

Starship Area Wolfcamp Production Table

API	Lease Name	Well Num	Operator Name	Surface Location	Field Name	Oil Cum (Mbo)	Gas Cum (Bcf)	Wtr Cum	First Prod Date	WFMP Zone
300154381700	B BANKER 33 23S 28E RB	226H	MATADOR	33H/23S/28E	PURPLE SAGE	236	0.59	965	2016-08-01	WFMP Y Sand
300154349500	LOVING TOWNSITE 21 WOPA FEE	2H	MEWBOURNE	28A/23S/28E	PURPLE SAGE	386	0.96	1216	2017-06-01	WFMP Y Sand
300154402500	CHARLIE SWEENEY FEDERAL COM	208H	MATADOR	31P/23S/28E	PURPLE SAGE	181	0.46	637	2018-02-01	WFMP Y Sand
300154408800	EL TORO INVICTA 14	301H	CHEVRON	14M/23S/28E	PURPLE SAGE	215	0.47	652	2017-10-01	WFMP Y Sand
300154411500	SPEEDWAGON 27 WOPA FEE	2H	MEWBOURNE	34A/23S/28E	PURPLE SAGE	368	0.69	877	2018-02-01	WFMP Y Sand
300154413800	B BANKER 33 23S 28E RB	201H	MATADOR	33A/23S/28E	PURPLE SAGE	218	0.55	805	2017-07-01	WFMP Y Sand
300154428500	NIGHT RANGER 28 WOAP FEE	2H	MEWBOURNE	28A/23S/28E	PURPLE SAGE	169	0.32	403	2018-12-01	WFMP Y Sand
300154433900	OGDEN 20509 32 29 FEDERAL COM	5H	BTA	32F/23S/28E	PURPLE SAGE	65	0.14	249	2019-07-01	WFMP Y Sand
300154434000	OGDEN 20509 32 29 FEDERAL COM	6H	BTA	32E/23S/28E	PURPLE SAGE	72	0.15	221	2019-07-01	WFMP Y Sand
300154455900	WHITESNAKE 20 21 W08C FEE	2H	MEWBOURNE	20C/23S/28E	PURPLE SAGE	186	0.50	733	2018-07-01	WFMP Y Sand
300154456000	ZEPELIN 32 WOLI STATE COM	1H	MEWBOURNE	32L/23S/28E	PURPLE SAGE	210	0.46	613	2018-07-01	WFMP Y Sand
300154456600	MARINER FEE 23 28 20 WA	14H	MARATHON	20N/23S/28E	PURPLE SAGE	81	0.24	255	2019-05-01	WFMP Y Sand
300154456700	MARINER FEE 23 28 20 WXY	11H	MARATHON	20N/23S/28E	PURPLE SAGE	47	0.13	215	2019-05-01	WFMP Y Sand
300154456800	MARINER FEE 23 28 20 WXY	18H	MARATHON	20N/23S/28E	PURPLE SAGE	82	0.22	257	2019-05-01	WFMP Y Sand
300154460700	HERMES FEE 23 28 30 WA	10H	MARATHON	30P/23S/28E	PURPLE SAGE	60	0.31	228	2018-10-01	WFMP Z Sand
300154475000	OGDEN 20509 29 32	2H	BTA	29B/23S/28E	PURPLE SAGE	203	0.44	763	2019-01-01	WFMP Y Sand
300154505200	OGDEN 20509 29 32 FEDERAL COM	3H	BTA	29B/23S/28E	PURPLE SAGE	165	0.35	659	2019-01-01	WFMP Y Sand
300154537700	ZEPELIN 32 WOMP STATE COM	2H	MEWBOURNE	32M/23S/28E	PURPLE SAGE	11	0.03	35	2019-09-01	WFMP Y Sand
300154537800	ZEPELIN 32 WOLI STATE COM	3H	MEWBOURNE	32M/23S/28E	PURPLE SAGE	11	0.02	44	2019-09-01	WFMP Z Sand



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)

Starship 28-21

W0OB Fee #1H

OH

Plan: Plan #1

Standard Planning Report

23 October, 2019

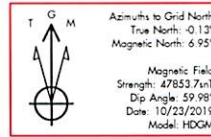


D

Plan #1



Project: Eddy Co., NM (NAD 83)
 Site: Starship 2B-21
 Well: WO08 Fee #1H
 Wellbore: OH
 Design: Plan #1
 Lat: 32.269402
 Long: -104.087503
 GL: 3063.00
 KB: RKB=28' @ 3091.00usf (Patterson 244)



Formation Tops
 No formation data is available

WELL DETAILS: WO08 Fee #1H

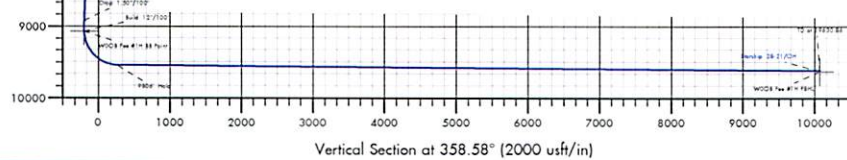
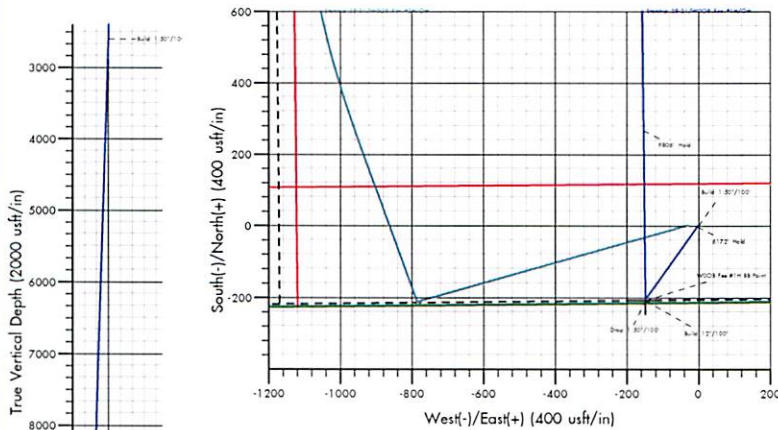
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	461828.60	617318.30	32.269402	-104.087503

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
WO08 Fee #1H BB Point	9073.00	-206.52	-148.12	461622.08	617170.18	Point
WO08 Fee #1H PBHL	9626.00	10072.40	-249.60	471901.00	617068.70	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	D/eg	T/face	V/sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	Build 1.50"/100'
2753.52	2.30	215.65	2753.48	-2.51	-1.80	1.50	215.65	-2.46	6172' Hold
8925.10	2.30	215.65	8920.07	-204.01	-146.32	0.00	0.00	-200.32	Drop 1.50"/100'
9078.62	0.00	0.00	9073.55	-206.52	-148.12	1.50	180.00	-202.79	Build 12"/100'
9824.96	89.56	359.43	9551.00	267.27	-152.80	12.00	359.43	270.97	9806' Hold
19630.86	89.56	359.43	9626.00	10072.40	-249.60	0.00	0.00	10075.49	TD at 19630.86

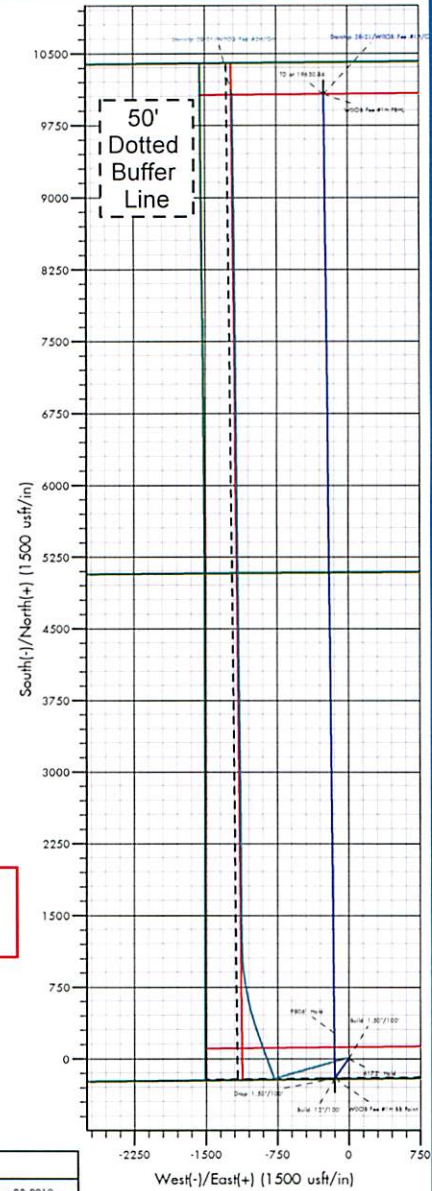


1H SHL:
 215' FSL & 1200'
 FEL

1H PBHL:
 330' FNL & 1350' FEL

330' N/S Hardlines
 330' FEL Hard Line
 2321' FEL Hard Line

Plan: Plan #1 (WO08 Fee #1H/OH)
 Created By: Marcus Spurgeon Date: 9-11-October-23-2019



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W00B Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy Co., NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Starship 28-21				
Site Position:		Northing:	461,828.60 usft	Latitude:	32.269402
From:	Map	Easting:	617,318.30 usft	Longitude:	-104.087504
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	W00B Fee #1H					
Well Position	+N/-S	0.00 usft	Northing:	461,828.60 usft	Latitude:	32.269402
	+E/-W	0.00 usft	Easting:	617,318.30 usft	Longitude:	-104.087504
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,063.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/23/19	7.08	59.98	47,853.70000000

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	358.58

Plan Survey Tool Program	Date	10/23/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,630.78 Plan #1 (OH)	MWD	
			OWSG MWD - Standard	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,753.52	2.30	215.65	2,753.48	-2.51	-1.80	1.50	1.50	0.00	215.65	
8,925.10	2.30	215.65	8,920.07	-204.01	-146.32	0.00	0.00	0.00	0.00	
9,078.62	0.00	0.00	9,073.55	-206.52	-148.12	1.50	-1.50	0.00	180.00	
9,824.96	89.56	359.43	9,551.00	267.27	-152.80	12.00	12.00	-0.08	359.43	
19,630.86	89.56	359.43	9,626.00	10,072.40	-249.60	0.00	0.00	0.00	0.00	W00B Fee #1H PBHI

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W00B Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1.50°/100'									
2,700.00	1.50	215.65	2,699.99	-1.06	-0.76	-1.04	1.50	1.50	0.00
2,753.52	2.30	215.65	2,753.48	-2.51	-1.80	-2.46	1.50	1.50	0.00
6172' Hold									
2,800.00	2.30	215.65	2,799.92	-4.02	-2.89	-3.95	0.00	0.00	0.00
2,900.00	2.30	215.65	2,899.84	-7.29	-5.23	-7.16	0.00	0.00	0.00
3,000.00	2.30	215.65	2,999.76	-10.55	-7.57	-10.36	0.00	0.00	0.00
3,100.00	2.30	215.65	3,099.68	-13.82	-9.91	-13.57	0.00	0.00	0.00
3,200.00	2.30	215.65	3,199.60	-17.08	-12.25	-16.78	0.00	0.00	0.00
3,300.00	2.30	215.65	3,299.52	-20.35	-14.59	-19.98	0.00	0.00	0.00
3,400.00	2.30	215.65	3,399.44	-23.61	-16.94	-23.19	0.00	0.00	0.00
3,500.00	2.30	215.65	3,499.36	-26.88	-19.28	-26.39	0.00	0.00	0.00
3,600.00	2.30	215.65	3,599.28	-30.14	-21.62	-29.60	0.00	0.00	0.00
3,700.00	2.30	215.65	3,699.19	-33.41	-23.96	-32.81	0.00	0.00	0.00
3,800.00	2.30	215.65	3,799.11	-36.67	-26.30	-36.01	0.00	0.00	0.00
3,900.00	2.30	215.65	3,899.03	-39.94	-28.65	-39.22	0.00	0.00	0.00
4,000.00	2.30	215.65	3,998.95	-43.20	-30.99	-42.42	0.00	0.00	0.00
4,100.00	2.30	215.65	4,098.87	-46.47	-33.33	-45.63	0.00	0.00	0.00
4,200.00	2.30	215.65	4,198.79	-49.73	-35.67	-48.84	0.00	0.00	0.00
4,300.00	2.30	215.65	4,298.71	-53.00	-38.01	-52.04	0.00	0.00	0.00
4,400.00	2.30	215.65	4,398.63	-56.27	-40.35	-55.25	0.00	0.00	0.00
4,500.00	2.30	215.65	4,498.55	-59.53	-42.70	-58.45	0.00	0.00	0.00
4,600.00	2.30	215.65	4,598.47	-62.80	-45.04	-61.66	0.00	0.00	0.00
4,700.00	2.30	215.65	4,698.39	-66.06	-47.38	-64.87	0.00	0.00	0.00
4,800.00	2.30	215.65	4,798.31	-69.33	-49.72	-68.07	0.00	0.00	0.00
4,900.00	2.30	215.65	4,898.23	-72.59	-52.06	-71.28	0.00	0.00	0.00

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Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
5,000.00	2.30	215.65	4,998.14	-75.86	-54.40	-74.48	0.00	0.00	0.00
5,100.00	2.30	215.65	5,098.06	-79.12	-56.75	-77.69	0.00	0.00	0.00
5,200.00	2.30	215.65	5,197.98	-82.39	-59.09	-80.90	0.00	0.00	0.00
5,300.00	2.30	215.65	5,297.90	-85.65	-61.43	-84.10	0.00	0.00	0.00
5,400.00	2.30	215.65	5,397.82	-88.92	-63.77	-87.31	0.00	0.00	0.00
5,500.00	2.30	215.65	5,497.74	-92.18	-66.11	-90.51	0.00	0.00	0.00
5,600.00	2.30	215.65	5,597.66	-95.45	-68.45	-93.72	0.00	0.00	0.00
5,700.00	2.30	215.65	5,697.58	-98.71	-70.80	-96.93	0.00	0.00	0.00
5,800.00	2.30	215.65	5,797.50	-101.98	-73.14	-100.13	0.00	0.00	0.00
5,900.00	2.30	215.65	5,897.42	-105.24	-75.48	-103.34	0.00	0.00	0.00
6,000.00	2.30	215.65	5,997.34	-108.51	-77.82	-106.54	0.00	0.00	0.00
6,100.00	2.30	215.65	6,097.26	-111.77	-80.16	-109.75	0.00	0.00	0.00
6,200.00	2.30	215.65	6,197.18	-115.04	-82.51	-112.96	0.00	0.00	0.00
6,300.00	2.30	215.65	6,297.09	-118.30	-84.85	-116.16	0.00	0.00	0.00
6,400.00	2.30	215.65	6,397.01	-121.57	-87.19	-119.37	0.00	0.00	0.00
6,500.00	2.30	215.65	6,496.93	-124.83	-89.53	-122.57	0.00	0.00	0.00
6,600.00	2.30	215.65	6,596.85	-128.10	-91.87	-125.78	0.00	0.00	0.00
6,700.00	2.30	215.65	6,696.77	-131.36	-94.21	-128.99	0.00	0.00	0.00
6,800.00	2.30	215.65	6,796.69	-134.63	-96.56	-132.19	0.00	0.00	0.00
6,900.00	2.30	215.65	6,896.61	-137.89	-98.90	-135.40	0.00	0.00	0.00
7,000.00	2.30	215.65	6,996.53	-141.16	-101.24	-138.61	0.00	0.00	0.00
7,100.00	2.30	215.65	7,096.45	-144.42	-103.58	-141.81	0.00	0.00	0.00
7,200.00	2.30	215.65	7,196.37	-147.69	-105.92	-145.02	0.00	0.00	0.00
7,300.00	2.30	215.65	7,296.29	-150.95	-108.26	-148.22	0.00	0.00	0.00
7,400.00	2.30	215.65	7,396.21	-154.22	-110.61	-151.43	0.00	0.00	0.00
7,500.00	2.30	215.65	7,496.13	-157.48	-112.95	-154.64	0.00	0.00	0.00
7,600.00	2.30	215.65	7,596.05	-160.75	-115.29	-157.84	0.00	0.00	0.00
7,700.00	2.30	215.65	7,695.96	-164.01	-117.63	-161.05	0.00	0.00	0.00
7,800.00	2.30	215.65	7,795.88	-167.28	-119.97	-164.25	0.00	0.00	0.00
7,900.00	2.30	215.65	7,895.80	-170.54	-122.32	-167.46	0.00	0.00	0.00
8,000.00	2.30	215.65	7,995.72	-173.81	-124.66	-170.67	0.00	0.00	0.00
8,100.00	2.30	215.65	8,095.64	-177.07	-127.00	-173.87	0.00	0.00	0.00
8,200.00	2.30	215.65	8,195.56	-180.34	-129.34	-177.08	0.00	0.00	0.00
8,300.00	2.30	215.65	8,295.48	-183.60	-131.68	-180.28	0.00	0.00	0.00
8,400.00	2.30	215.65	8,395.40	-186.87	-134.02	-183.49	0.00	0.00	0.00
8,500.00	2.30	215.65	8,495.32	-190.13	-136.37	-186.70	0.00	0.00	0.00
8,600.00	2.30	215.65	8,595.24	-193.40	-138.71	-189.90	0.00	0.00	0.00
8,700.00	2.30	215.65	8,695.16	-196.66	-141.05	-193.11	0.00	0.00	0.00
8,800.00	2.30	215.65	8,795.08	-199.93	-143.39	-196.31	0.00	0.00	0.00
8,900.00	2.30	215.65	8,895.00	-203.19	-145.73	-199.52	0.00	0.00	0.00
8,925.10	2.30	215.65	8,920.07	-204.01	-146.32	-200.32	0.00	0.00	0.00
Drop 1.50°/100'									
9,000.00	1.18	215.65	8,994.94	-205.86	-147.65	-202.14	1.50	-1.50	0.00
9,078.62	0.00	0.00	9,073.55	-206.52	-148.12	-202.79	1.50	-1.50	0.00
Build 12°/100'									
9,100.00	2.57	359.43	9,094.93	-206.04	-148.12	-202.31	12.00	12.00	0.00
9,125.00	5.57	359.43	9,119.86	-204.27	-148.14	-200.53	12.00	12.00	0.00
9,150.00	8.57	359.43	9,144.67	-201.19	-148.17	-197.46	12.00	12.00	0.00
9,175.00	11.57	359.43	9,169.28	-196.82	-148.21	-193.09	12.00	12.00	0.00
9,200.00	14.57	359.43	9,193.63	-191.17	-148.27	-187.44	12.00	12.00	0.00
9,225.00	17.57	359.43	9,217.65	-184.26	-148.34	-180.52	12.00	12.00	0.00
9,250.00	20.57	359.43	9,241.28	-176.09	-148.42	-172.36	12.00	12.00	0.00
9,275.00	23.57	359.43	9,264.44	-166.70	-148.51	-162.97	12.00	12.00	0.00
9,300.00	26.57	359.43	9,287.09	-156.11	-148.62	-152.38	12.00	12.00	0.00

Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Eddy Co., NM (NAD 83)
Site: Starship 28-21
Well: W00B Fee #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well W00B Fee #1H
TVD Reference: RKB=28' @ 3091.00usft (Patterson 244)
MD Reference: RKB=28' @ 3091.00usft (Patterson 244)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
9,325.00	29.57	359.43	9,309.14	-144.35	-148.73	-140.62	12.00	12.00	0.00
9,350.00	32.57	359.43	9,330.56	-131.45	-148.86	-127.72	12.00	12.00	0.00
9,375.00	35.57	359.43	9,351.26	-117.45	-149.00	-113.72	12.00	12.00	0.00
9,400.00	38.57	359.43	9,371.21	-102.38	-149.15	-98.66	12.00	12.00	0.00
9,425.00	41.57	359.43	9,390.34	-86.29	-149.30	-82.57	12.00	12.00	0.00
9,450.00	44.57	359.43	9,408.60	-69.23	-149.47	-65.50	12.00	12.00	0.00
9,475.00	47.57	359.43	9,425.95	-51.23	-149.65	-47.50	12.00	12.00	0.00
9,500.00	50.57	359.43	9,442.32	-32.34	-149.84	-28.62	12.00	12.00	0.00
9,525.00	53.57	359.43	9,457.69	-12.63	-150.03	-8.91	12.00	12.00	0.00
9,550.00	56.57	359.43	9,472.00	7.86	-150.23	11.58	12.00	12.00	0.00
9,575.00	59.57	359.43	9,485.23	29.08	-150.44	32.80	12.00	12.00	0.00
9,600.00	62.57	359.43	9,497.32	50.95	-150.66	54.67	12.00	12.00	0.00
9,625.00	65.57	359.43	9,508.25	73.43	-150.88	77.15	12.00	12.00	0.00
9,650.00	68.57	359.43	9,517.99	96.45	-151.11	100.17	12.00	12.00	0.00
9,675.00	71.57	359.43	9,526.52	119.95	-151.34	123.66	12.00	12.00	0.00
9,700.00	74.57	359.43	9,533.80	143.86	-151.58	147.57	12.00	12.00	0.00
9,725.00	77.57	359.43	9,539.82	168.12	-151.82	171.83	12.00	12.00	0.00
9,750.00	80.57	359.43	9,544.56	192.67	-152.06	196.37	12.00	12.00	0.00
9,775.00	83.57	359.43	9,548.01	217.42	-152.30	221.13	12.00	12.00	0.00
9,800.00	86.57	359.43	9,550.16	242.33	-152.55	246.03	12.00	12.00	0.00
9,824.96	89.56	359.43	9,551.00	267.27	-152.80	270.97	12.00	12.00	0.00
9806' Hold									
9,900.00	89.56	359.43	9,551.57	342.30	-153.54	346.00	0.00	0.00	0.00
10,000.00	89.56	359.43	9,552.34	442.29	-154.52	445.99	0.00	0.00	0.00
10,100.00	89.56	359.43	9,553.10	542.29	-155.51	545.97	0.00	0.00	0.00
10,200.00	89.56	359.43	9,553.87	642.28	-156.50	645.96	0.00	0.00	0.00
10,300.00	89.56	359.43	9,554.63	742.27	-157.49	745.94	0.00	0.00	0.00
10,400.00	89.56	359.43	9,555.40	842.26	-158.47	845.93	0.00	0.00	0.00
10,500.00	89.56	359.43	9,556.16	942.25	-159.46	945.92	0.00	0.00	0.00
10,600.00	89.56	359.43	9,556.93	1,042.25	-160.45	1,045.90	0.00	0.00	0.00
10,700.00	89.56	359.43	9,557.69	1,142.24	-161.43	1,145.89	0.00	0.00	0.00
10,800.00	89.56	359.43	9,558.46	1,242.23	-162.42	1,245.87	0.00	0.00	0.00
10,900.00	89.56	359.43	9,559.22	1,342.22	-163.41	1,345.86	0.00	0.00	0.00
11,000.00	89.56	359.43	9,559.99	1,442.22	-164.40	1,445.85	0.00	0.00	0.00
11,100.00	89.56	359.43	9,560.75	1,542.21	-165.38	1,545.83	0.00	0.00	0.00
11,200.00	89.56	359.43	9,561.52	1,642.20	-166.37	1,645.82	0.00	0.00	0.00
11,300.00	89.56	359.43	9,562.28	1,742.19	-167.36	1,745.80	0.00	0.00	0.00
11,400.00	89.56	359.43	9,563.05	1,842.18	-168.34	1,845.79	0.00	0.00	0.00
11,500.00	89.56	359.43	9,563.81	1,942.18	-169.33	1,945.77	0.00	0.00	0.00
11,600.00	89.56	359.43	9,564.58	2,042.17	-170.32	2,045.76	0.00	0.00	0.00
11,700.00	89.56	359.43	9,565.34	2,142.16	-171.31	2,145.75	0.00	0.00	0.00
11,800.00	89.56	359.43	9,566.11	2,242.15	-172.29	2,245.73	0.00	0.00	0.00
11,900.00	89.56	359.43	9,566.87	2,342.14	-173.28	2,345.72	0.00	0.00	0.00
12,000.00	89.56	359.43	9,567.64	2,442.14	-174.27	2,445.70	0.00	0.00	0.00
12,100.00	89.56	359.43	9,568.40	2,542.13	-175.25	2,545.69	0.00	0.00	0.00
12,200.00	89.56	359.43	9,569.17	2,642.12	-176.24	2,645.68	0.00	0.00	0.00
12,300.00	89.56	359.43	9,569.93	2,742.11	-177.23	2,745.66	0.00	0.00	0.00
12,400.00	89.56	359.43	9,570.70	2,842.11	-178.22	2,845.65	0.00	0.00	0.00
12,500.00	89.56	359.43	9,571.46	2,942.10	-179.20	2,945.63	0.00	0.00	0.00
12,600.00	89.56	359.43	9,572.23	3,042.09	-180.19	3,045.62	0.00	0.00	0.00
12,700.00	89.56	359.43	9,572.99	3,142.08	-181.18	3,145.61	0.00	0.00	0.00
12,800.00	89.56	359.43	9,573.76	3,242.07	-182.17	3,245.59	0.00	0.00	0.00
12,900.00	89.56	359.43	9,574.52	3,342.07	-183.15	3,345.58	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Eddy Co., NM (NAD 83)
Site: Starship 28-21
Well: W00B Fee #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well W00B Fee #1H
TVD Reference: RKB=28' @ 3091.00usft (Patterson 244)
MD Reference: RKB=28' @ 3091.00usft (Patterson 244)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
13,000.00	89.56	359.43	9,575.28	3,442.06	-184.14	3,445.56	0.00	0.00	0.00
13,100.00	89.56	359.43	9,576.05	3,542.05	-185.13	3,545.55	0.00	0.00	0.00
13,200.00	89.56	359.43	9,576.81	3,642.04	-186.11	3,645.54	0.00	0.00	0.00
13,300.00	89.56	359.43	9,577.58	3,742.04	-187.10	3,745.52	0.00	0.00	0.00
13,400.00	89.56	359.43	9,578.34	3,842.03	-188.09	3,845.51	0.00	0.00	0.00
13,500.00	89.56	359.43	9,579.11	3,942.02	-189.08	3,945.49	0.00	0.00	0.00
13,600.00	89.56	359.43	9,579.87	4,042.01	-190.06	4,045.48	0.00	0.00	0.00
13,700.00	89.56	359.43	9,580.64	4,142.00	-191.05	4,145.47	0.00	0.00	0.00
13,800.00	89.56	359.43	9,581.40	4,242.00	-192.04	4,245.45	0.00	0.00	0.00
13,900.00	89.56	359.43	9,582.17	4,341.99	-193.02	4,345.44	0.00	0.00	0.00
14,000.00	89.56	359.43	9,582.93	4,441.98	-194.01	4,445.42	0.00	0.00	0.00
14,100.00	89.56	359.43	9,583.70	4,541.97	-195.00	4,545.41	0.00	0.00	0.00
14,200.00	89.56	359.43	9,584.46	4,641.97	-195.99	4,645.40	0.00	0.00	0.00
14,300.00	89.56	359.43	9,585.23	4,741.96	-196.97	4,745.38	0.00	0.00	0.00
14,400.00	89.56	359.43	9,585.99	4,841.95	-197.96	4,845.37	0.00	0.00	0.00
14,500.00	89.56	359.43	9,586.76	4,941.94	-198.95	4,945.35	0.00	0.00	0.00
14,600.00	89.56	359.43	9,587.52	5,041.93	-199.94	5,045.34	0.00	0.00	0.00
14,700.00	89.56	359.43	9,588.29	5,141.93	-200.92	5,145.33	0.00	0.00	0.00
14,800.00	89.56	359.43	9,589.05	5,241.92	-201.91	5,245.31	0.00	0.00	0.00
14,900.00	89.56	359.43	9,589.82	5,341.91	-202.90	5,345.30	0.00	0.00	0.00
15,000.00	89.56	359.43	9,590.58	5,441.90	-203.88	5,445.28	0.00	0.00	0.00
15,100.00	89.56	359.43	9,591.35	5,541.90	-204.87	5,545.27	0.00	0.00	0.00
15,200.00	89.56	359.43	9,592.11	5,641.89	-205.86	5,645.26	0.00	0.00	0.00
15,300.00	89.56	359.43	9,592.88	5,741.88	-206.85	5,745.24	0.00	0.00	0.00
15,400.00	89.56	359.43	9,593.64	5,841.87	-207.83	5,845.23	0.00	0.00	0.00
15,500.00	89.56	359.43	9,594.41	5,941.86	-208.82	5,945.21	0.00	0.00	0.00
15,600.00	89.56	359.43	9,595.17	6,041.86	-209.81	6,045.20	0.00	0.00	0.00
15,700.00	89.56	359.43	9,595.94	6,141.85	-210.79	6,145.19	0.00	0.00	0.00
15,800.00	89.56	359.43	9,596.70	6,241.84	-211.78	6,245.17	0.00	0.00	0.00
15,900.00	89.56	359.43	9,597.47	6,341.83	-212.77	6,345.16	0.00	0.00	0.00
16,000.00	89.56	359.43	9,598.23	6,441.83	-213.76	6,445.14	0.00	0.00	0.00
16,100.00	89.56	359.43	9,598.99	6,541.82	-214.74	6,545.13	0.00	0.00	0.00
16,200.00	89.56	359.43	9,599.76	6,641.81	-215.73	6,645.12	0.00	0.00	0.00
16,300.00	89.56	359.43	9,600.52	6,741.80	-216.72	6,745.10	0.00	0.00	0.00
16,400.00	89.56	359.43	9,601.29	6,841.79	-217.70	6,845.09	0.00	0.00	0.00
16,500.00	89.56	359.43	9,602.05	6,941.79	-218.69	6,945.07	0.00	0.00	0.00
16,600.00	89.56	359.43	9,602.82	7,041.78	-219.68	7,045.06	0.00	0.00	0.00
16,700.00	89.56	359.43	9,603.58	7,141.77	-220.67	7,145.05	0.00	0.00	0.00
16,800.00	89.56	359.43	9,604.35	7,241.76	-221.65	7,245.03	0.00	0.00	0.00
16,900.00	89.56	359.43	9,605.11	7,341.76	-222.64	7,345.02	0.00	0.00	0.00
17,000.00	89.56	359.43	9,605.88	7,441.75	-223.63	7,445.00	0.00	0.00	0.00
17,100.00	89.56	359.43	9,606.64	7,541.74	-224.62	7,544.99	0.00	0.00	0.00
17,200.00	89.56	359.43	9,607.41	7,641.73	-225.60	7,644.98	0.00	0.00	0.00
17,300.00	89.56	359.43	9,608.17	7,741.72	-226.59	7,744.96	0.00	0.00	0.00
17,400.00	89.56	359.43	9,608.94	7,841.72	-227.58	7,844.95	0.00	0.00	0.00
17,500.00	89.56	359.43	9,609.70	7,941.71	-228.56	7,944.93	0.00	0.00	0.00
17,600.00	89.56	359.43	9,610.47	8,041.70	-229.55	8,044.92	0.00	0.00	0.00
17,700.00	89.56	359.43	9,611.23	8,141.69	-230.54	8,144.91	0.00	0.00	0.00
17,800.00	89.56	359.43	9,612.00	8,241.69	-231.53	8,244.89	0.00	0.00	0.00
17,900.00	89.56	359.43	9,612.76	8,341.68	-232.51	8,344.88	0.00	0.00	0.00
18,000.00	89.56	359.43	9,613.53	8,441.67	-233.50	8,444.86	0.00	0.00	0.00
18,100.00	89.56	359.43	9,614.29	8,541.66	-234.49	8,544.85	0.00	0.00	0.00
18,200.00	89.56	359.43	9,615.06	8,641.65	-235.47	8,644.84	0.00	0.00	0.00
18,300.00	89.56	359.43	9,615.82	8,741.65	-236.46	8,744.82	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W00B Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)	
18,400.00	89.56	359.43	9,616.59	8,841.64	-237.45	8,844.81	0.00	0.00	0.00	
18,500.00	89.56	359.43	9,617.35	8,941.63	-238.44	8,944.79	0.00	0.00	0.00	
18,600.00	89.56	359.43	9,618.12	9,041.62	-239.42	9,044.78	0.00	0.00	0.00	
18,700.00	89.56	359.43	9,618.88	9,141.61	-240.41	9,144.77	0.00	0.00	0.00	
18,800.00	89.56	359.43	9,619.65	9,241.61	-241.40	9,244.75	0.00	0.00	0.00	
18,900.00	89.56	359.43	9,620.41	9,341.60	-242.38	9,344.74	0.00	0.00	0.00	
19,000.00	89.56	359.43	9,621.18	9,441.59	-243.37	9,444.72	0.00	0.00	0.00	
19,100.00	89.56	359.43	9,621.94	9,541.58	-244.36	9,544.71	0.00	0.00	0.00	
19,200.00	89.56	359.43	9,622.70	9,641.58	-245.35	9,644.69	0.00	0.00	0.00	
19,300.00	89.56	359.43	9,623.47	9,741.57	-246.33	9,744.68	0.00	0.00	0.00	
19,400.00	89.56	359.43	9,624.23	9,841.56	-247.32	9,844.67	0.00	0.00	0.00	
19,500.00	89.56	359.43	9,625.00	9,941.55	-248.31	9,944.65	0.00	0.00	0.00	
19,600.00	89.56	359.43	9,625.76	10,041.54	-249.30	10,044.64	0.00	0.00	0.00	
19,630.86	89.56	359.43	9,626.00	10,072.40	-249.60	10,075.49	0.00	0.00	0.00	
TD at 19630.86										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
W00B Fee #1H BB Poir	0.00	0.00	9,073.00	-206.52	-148.12	461,622.08	617,170.19	32.268836	-104.087984	
- plan hits target center										
- Point										
W00B Fee #1H PBHL	0.00	0.00	9,626.00	10,072.40	-249.60	471,901.00	617,068.70	32.297092	-104.088237	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,600.00	2,600.00	0.00	0.00	Build 1.50°/100'	
2,753.52	2,753.48	-2.51	-1.80	6172' Hold	
8,925.10	8,920.07	-204.01	-146.32	Drop 1.50°/100'	
9,078.62	9,073.55	-206.52	-148.12	Build 12°/100'	
9,824.96	9,551.00	267.27	-152.80	9806' Hold	
19,630.86	9,626.00	10,072.40	-249.60	TD at 19630.86	



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)

Starship 28-21

W00B Fee #2H

OH

Plan: Plan #1

Standard Planning Report

23 October, 2019



E

Plan #1



Project: Eddy Co., NM (NAD 83)
 Site: Starship 28-21
 Well: WO08 Fee #2H
 Wellbore: OH
 Design: Plan #1
 Lat: 32.269402
 Long: -104.087600
 GL: 3063.00
 KB: RKB=28' @ 3091.00usf (Patterson 244)

WELL DETAILS: WO08 Fee #2H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	461828.30	617288.30	32.269402	-104.087600

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
WO08 Fee #2H PBHL	9616.00	10065.50	-1179.40	471893.80	616108.90	Point

SECTION DETAILS

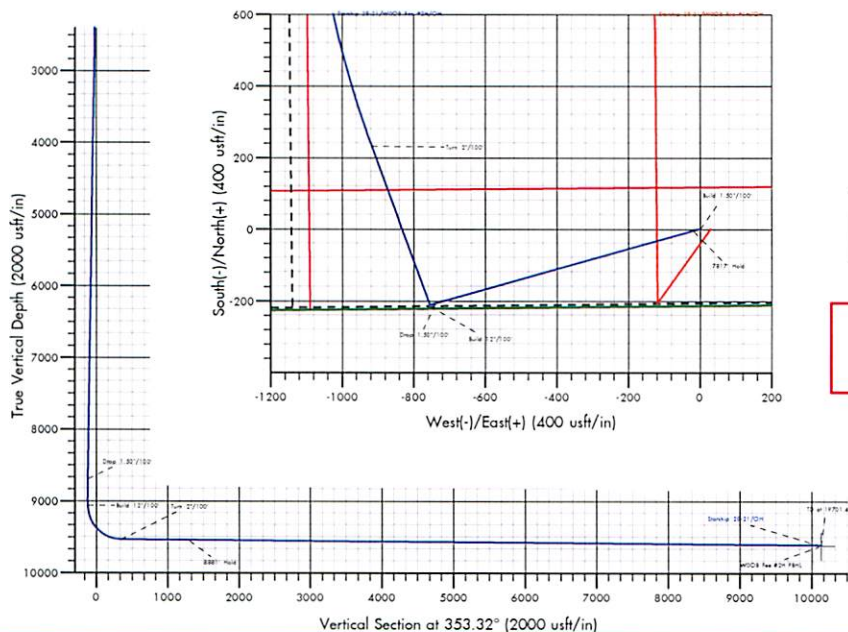
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	Build 1.50"/100'
916.69	5.50	254.25	916.12	-4.78	-16.93	1.50	254.25	-2.77	7817' Hold
8733.98	5.50	254.25	8697.43	-208.22	-738.07	0.00	0.00	-120.92	Drip 1.50"/100'
9100.67	0.00	0.00	9043.55	-213.00	-755.00	1.50	180.00	-123.70	Build 12"/100'
9847.00	89.56	339.95	9541.00	232.08	-917.44	12.00	339.95	337.27	Turn 2"/100'
10820.93	89.56	359.43	9548.51	1185.64	-1090.91	2.00	90.06	1304.54	8881' Hold
19701.48	89.56	359.43	9616.00	10065.50	-1179.40	0.00	0.00	10134.36	TD at 19701.48



Azimuths to Grid North
 True North: -0.13°
 Magnetic North: 6.95°
 Magnetic Field
 Strength: 47853.7uT
 Dip Angle: 59.98°
 Date: 10/23/2019
 Model: HDGM

Formation Tops

No formation data is available

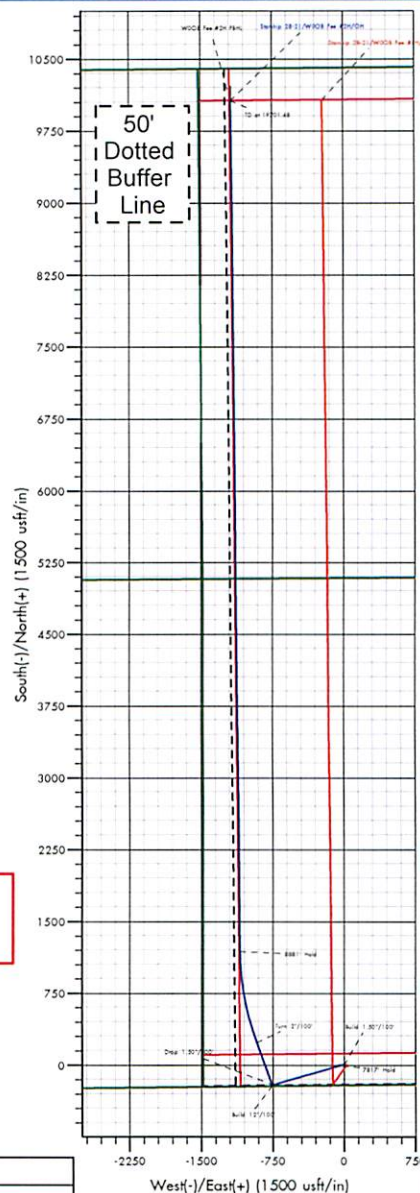


2H SHL:
215' FSL & 1230'
FEL

2H PBHL:
330' FNL & 2310' FEL

330' N/S Hardlines
330' FEL Hard Line
2321' FEL Hard Line

Plan: Plan #1 (WO08 Fee #2H/OH)
 Created By: Marcus Seurgin Date: 7:30 October 23, 2019



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W00B Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy Co., NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Starship 28-21		
Site Position:		Northing:	461,828.60 usft
From:	Map	Easting:	617,318.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.269402
		Longitude:	-104.087504
		Grid Convergence:	0.13 °

Well	W00B Fee #2H		
Well Position	+N/-S	-0.30 usft	Northing:
	+E/-W	-30.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32.269402
		Longitude:	-104.087601
		Ground Level:	3,063.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	10/23/19	7.08
			Dip Angle (°)
			59.98
			Field Strength (nT)
			47,853.70000000

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			353.32

Plan Survey Tool Program	Date	10/23/19
Depth From (usft)	Depth To (usft)	Survey (Wellbore)
1	0.00	19,701.47
		Plan #1 (OH)
		Tool Name
		MWD
		OWSG MWD - Standard
		Remarks

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	0.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	
916.69	5.50	254.25	916.12	-4.78	-16.93	1.50	1.50	0.00	254.25	
8,733.98	5.50	254.25	8,697.43	-208.22	-738.07	0.00	0.00	0.00	0.00	
9,100.67	0.00	0.00	9,063.55	-213.00	-755.00	1.50	-1.50	0.00	180.00	
9,847.00	89.56	339.95	9,541.00	232.08	-917.44	12.00	12.00	0.00	339.95	
10,820.93	89.56	359.43	9,548.51	1,185.64	-1,090.91	2.00	0.00	2.00	90.06	
19,701.48	89.56	359.43	9,616.00	10,065.50	-1,179.40	0.00	0.00	0.00	0.00	W00B Fee #2H PBH

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W00B Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
550.00	0.00	0.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1.50°/100'									
600.00	0.75	254.25	600.00	-0.09	-0.31	-0.05	1.50	1.50	0.00
700.00	2.25	254.25	699.96	-0.80	-2.83	-0.46	1.50	1.50	0.00
800.00	3.75	254.25	799.82	-2.22	-7.87	-1.29	1.50	1.50	0.00
900.00	5.25	254.25	899.51	-4.35	-15.42	-2.53	1.50	1.50	0.00
916.69	5.50	254.25	916.12	-4.78	-16.93	-2.77	1.50	1.50	0.00
7817' Hold									
1,000.00	5.50	254.25	999.05	-6.94	-24.61	-4.03	0.00	0.00	0.00
1,100.00	5.50	254.25	1,098.59	-9.55	-33.84	-5.54	0.00	0.00	0.00
1,200.00	5.50	254.25	1,198.13	-12.15	-43.06	-7.06	0.00	0.00	0.00
1,300.00	5.50	254.25	1,297.67	-14.75	-52.29	-8.57	0.00	0.00	0.00
1,400.00	5.50	254.25	1,397.21	-17.35	-61.51	-10.08	0.00	0.00	0.00
1,500.00	5.50	254.25	1,496.75	-19.96	-70.74	-11.59	0.00	0.00	0.00
1,600.00	5.50	254.25	1,596.29	-22.56	-79.96	-13.10	0.00	0.00	0.00
1,700.00	5.50	254.25	1,695.83	-25.16	-89.19	-14.61	0.00	0.00	0.00
1,800.00	5.50	254.25	1,795.37	-27.76	-98.41	-16.12	0.00	0.00	0.00
1,900.00	5.50	254.25	1,894.91	-30.37	-107.64	-17.63	0.00	0.00	0.00
2,000.00	5.50	254.25	1,994.45	-32.97	-116.86	-19.15	0.00	0.00	0.00
2,100.00	5.50	254.25	2,093.99	-35.57	-126.09	-20.66	0.00	0.00	0.00
2,200.00	5.50	254.25	2,193.53	-38.17	-135.31	-22.17	0.00	0.00	0.00
2,300.00	5.50	254.25	2,293.07	-40.78	-144.54	-23.68	0.00	0.00	0.00
2,400.00	5.50	254.25	2,392.61	-43.38	-153.76	-25.19	0.00	0.00	0.00
2,500.00	5.50	254.25	2,492.15	-45.98	-162.99	-26.70	0.00	0.00	0.00
2,600.00	5.50	254.25	2,591.69	-48.58	-172.21	-28.21	0.00	0.00	0.00
2,700.00	5.50	254.25	2,691.23	-51.19	-181.44	-29.73	0.00	0.00	0.00
2,800.00	5.50	254.25	2,790.77	-53.79	-190.66	-31.24	0.00	0.00	0.00
2,900.00	5.50	254.25	2,890.31	-56.39	-199.89	-32.75	0.00	0.00	0.00
3,000.00	5.50	254.25	2,989.84	-58.99	-209.11	-34.26	0.00	0.00	0.00
3,100.00	5.50	254.25	3,089.38	-61.60	-218.34	-35.77	0.00	0.00	0.00
3,200.00	5.50	254.25	3,188.92	-64.20	-227.56	-37.28	0.00	0.00	0.00
3,300.00	5.50	254.25	3,288.46	-66.80	-236.79	-38.79	0.00	0.00	0.00
3,400.00	5.50	254.25	3,388.00	-69.40	-246.01	-40.31	0.00	0.00	0.00
3,500.00	5.50	254.25	3,487.54	-72.01	-255.24	-41.82	0.00	0.00	0.00
3,600.00	5.50	254.25	3,587.08	-74.61	-264.46	-43.33	0.00	0.00	0.00
3,700.00	5.50	254.25	3,686.62	-77.21	-273.69	-44.84	0.00	0.00	0.00
3,800.00	5.50	254.25	3,786.16	-79.82	-282.91	-46.35	0.00	0.00	0.00
3,900.00	5.50	254.25	3,885.70	-82.42	-292.14	-47.86	0.00	0.00	0.00
4,000.00	5.50	254.25	3,985.24	-85.02	-301.36	-49.37	0.00	0.00	0.00
4,100.00	5.50	254.25	4,084.78	-87.62	-310.59	-50.89	0.00	0.00	0.00
4,200.00	5.50	254.25	4,184.32	-90.23	-319.81	-52.40	0.00	0.00	0.00
4,300.00	5.50	254.25	4,283.86	-92.83	-329.04	-53.91	0.00	0.00	0.00
4,400.00	5.50	254.25	4,383.40	-95.43	-338.26	-55.42	0.00	0.00	0.00
4,500.00	5.50	254.25	4,482.94	-98.03	-347.49	-56.93	0.00	0.00	0.00
4,600.00	5.50	254.25	4,582.48	-100.64	-356.71	-58.44	0.00	0.00	0.00
4,700.00	5.50	254.25	4,682.02	-103.24	-365.94	-59.95	0.00	0.00	0.00
4,800.00	5.50	254.25	4,781.56	-105.84	-375.16	-61.46	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W00B Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
4,900.00	5.50	254.25	4,881.10	-108.44	-384.39	-62.98	0.00	0.00	0.00
5,000.00	5.50	254.25	4,980.64	-111.05	-393.61	-64.49	0.00	0.00	0.00
5,100.00	5.50	254.25	5,080.18	-113.65	-402.84	-66.00	0.00	0.00	0.00
5,200.00	5.50	254.25	5,179.72	-116.25	-412.06	-67.51	0.00	0.00	0.00
5,300.00	5.50	254.25	5,279.26	-118.85	-421.29	-69.02	0.00	0.00	0.00
5,400.00	5.50	254.25	5,378.79	-121.46	-430.51	-70.53	0.00	0.00	0.00
5,500.00	5.50	254.25	5,478.33	-124.06	-439.74	-72.04	0.00	0.00	0.00
5,600.00	5.50	254.25	5,577.87	-126.66	-448.96	-73.56	0.00	0.00	0.00
5,700.00	5.50	254.25	5,677.41	-129.26	-458.19	-75.07	0.00	0.00	0.00
5,800.00	5.50	254.25	5,776.95	-131.87	-467.41	-76.58	0.00	0.00	0.00
5,900.00	5.50	254.25	5,876.49	-134.47	-476.64	-78.09	0.00	0.00	0.00
6,000.00	5.50	254.25	5,976.03	-137.07	-485.86	-79.60	0.00	0.00	0.00
6,100.00	5.50	254.25	6,075.57	-139.67	-495.09	-81.11	0.00	0.00	0.00
6,200.00	5.50	254.25	6,175.11	-142.28	-504.31	-82.62	0.00	0.00	0.00
6,300.00	5.50	254.25	6,274.65	-144.88	-513.54	-84.14	0.00	0.00	0.00
6,400.00	5.50	254.25	6,374.19	-147.48	-522.76	-85.65	0.00	0.00	0.00
6,500.00	5.50	254.25	6,473.73	-150.08	-531.99	-87.16	0.00	0.00	0.00
6,600.00	5.50	254.25	6,573.27	-152.69	-541.21	-88.67	0.00	0.00	0.00
6,700.00	5.50	254.25	6,672.81	-155.29	-550.44	-90.18	0.00	0.00	0.00
6,800.00	5.50	254.25	6,772.35	-157.89	-559.66	-91.69	0.00	0.00	0.00
6,900.00	5.50	254.25	6,871.89	-160.49	-568.89	-93.20	0.00	0.00	0.00
7,000.00	5.50	254.25	6,971.43	-163.10	-578.11	-94.72	0.00	0.00	0.00
7,100.00	5.50	254.25	7,070.97	-165.70	-587.34	-96.23	0.00	0.00	0.00
7,200.00	5.50	254.25	7,170.51	-168.30	-596.56	-97.74	0.00	0.00	0.00
7,300.00	5.50	254.25	7,270.05	-170.90	-605.79	-99.25	0.00	0.00	0.00
7,400.00	5.50	254.25	7,369.59	-173.51	-615.01	-100.76	0.00	0.00	0.00
7,500.00	5.50	254.25	7,469.13	-176.11	-624.24	-102.27	0.00	0.00	0.00
7,600.00	5.50	254.25	7,568.67	-178.71	-633.46	-103.78	0.00	0.00	0.00
7,700.00	5.50	254.25	7,668.20	-181.31	-642.69	-105.29	0.00	0.00	0.00
7,800.00	5.50	254.25	7,767.74	-183.92	-651.91	-106.81	0.00	0.00	0.00
7,900.00	5.50	254.25	7,867.28	-186.52	-661.14	-108.32	0.00	0.00	0.00
8,000.00	5.50	254.25	7,966.82	-189.12	-670.36	-109.83	0.00	0.00	0.00
8,100.00	5.50	254.25	8,066.36	-191.72	-679.59	-111.34	0.00	0.00	0.00
8,200.00	5.50	254.25	8,165.90	-194.33	-688.81	-112.85	0.00	0.00	0.00
8,300.00	5.50	254.25	8,265.44	-196.93	-698.04	-114.36	0.00	0.00	0.00
8,400.00	5.50	254.25	8,364.98	-199.53	-707.26	-115.87	0.00	0.00	0.00
8,500.00	5.50	254.25	8,464.52	-202.14	-716.49	-117.39	0.00	0.00	0.00
8,600.00	5.50	254.25	8,564.06	-204.74	-725.71	-118.90	0.00	0.00	0.00
8,700.00	5.50	254.25	8,663.60	-207.34	-734.94	-120.41	0.00	0.00	0.00
8,733.98	5.50	254.25	8,697.43	-208.22	-738.07	-120.92	0.00	0.00	0.00
Drop 1.50°/100'									
8,800.00	4.51	254.25	8,763.19	-209.79	-743.62	-121.83	1.50	-1.50	0.00
8,900.00	3.01	254.25	8,862.97	-211.57	-749.93	-122.86	1.50	-1.50	0.00
9,000.00	1.51	254.25	8,962.89	-212.64	-753.72	-123.49	1.50	-1.50	0.00
9,100.67	0.00	0.00	9,063.55	-213.00	-755.00	-123.70	1.50	-1.50	0.00
Build 12°/100'									
9,125.00	2.92	339.95	9,087.87	-212.42	-755.21	-123.09	12.00	12.00	0.00
9,150.00	5.92	339.95	9,112.79	-210.61	-755.87	-121.22	12.00	12.00	0.00
9,175.00	8.92	339.95	9,137.58	-207.58	-756.98	-118.08	12.00	12.00	0.00
9,200.00	11.92	339.95	9,162.17	-203.33	-758.53	-113.68	12.00	12.00	0.00
9,225.00	14.92	339.95	9,186.48	-197.88	-760.52	-108.04	12.00	12.00	0.00
9,250.00	17.92	339.95	9,210.46	-191.24	-762.94	-101.16	12.00	12.00	0.00
9,275.00	20.92	339.95	9,234.03	-183.43	-765.79	-93.07	12.00	12.00	0.00
9,300.00	23.92	339.95	9,257.14	-174.48	-769.06	-83.80	12.00	12.00	0.00

Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Eddy Co., NM (NAD 83)
Site: Starship 28-21
Well: W00B Fee #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well W00B Fee #2H
TVD Reference: RKB=28' @ 3091.00usft (Patterson 244)
MD Reference: RKB=28' @ 3091.00usft (Patterson 244)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
9,325.00	26.92	339.95	9,279.72	-164.40	-772.74	-73.36	12.00	12.00	0.00
9,350.00	29.92	339.95	9,301.70	-153.22	-776.82	-61.79	12.00	12.00	0.00
9,375.00	32.92	339.95	9,323.03	-140.98	-781.28	-49.11	12.00	12.00	0.00
9,400.00	35.92	339.95	9,343.66	-127.71	-786.13	-35.36	12.00	12.00	0.00
9,425.00	38.92	339.95	9,363.51	-113.44	-791.34	-20.58	12.00	12.00	0.00
9,450.00	41.92	339.95	9,382.54	-98.21	-796.89	-4.81	12.00	12.00	0.00
9,475.00	44.92	339.95	9,400.70	-82.07	-802.78	11.90	12.00	12.00	0.00
9,500.00	47.92	339.95	9,417.93	-65.06	-808.99	29.52	12.00	12.00	0.00
9,525.00	50.92	339.95	9,434.19	-47.23	-815.50	47.99	12.00	12.00	0.00
9,550.00	53.92	339.95	9,449.43	-28.62	-822.29	67.26	12.00	12.00	0.00
9,575.00	56.92	339.95	9,463.62	-9.29	-829.35	87.29	12.00	12.00	0.00
9,600.00	59.92	339.95	9,476.71	10.72	-836.65	108.01	12.00	12.00	0.00
9,625.00	62.92	339.95	9,488.67	31.34	-844.17	129.36	12.00	12.00	0.00
9,650.00	65.92	339.95	9,499.46	52.52	-851.90	151.30	12.00	12.00	0.00
9,675.00	68.92	339.95	9,509.06	74.20	-859.82	173.75	12.00	12.00	0.00
9,700.00	71.92	339.95	9,517.44	96.33	-867.89	196.67	12.00	12.00	0.00
9,725.00	74.92	339.95	9,524.57	118.83	-876.11	219.98	12.00	12.00	0.00
9,750.00	77.92	339.95	9,530.44	141.66	-884.44	243.62	12.00	12.00	0.00
9,775.00	80.92	339.95	9,535.03	164.74	-892.86	267.52	12.00	12.00	0.00
9,800.00	83.92	339.95	9,538.33	188.02	-901.36	291.63	12.00	12.00	0.00
9,825.00	86.92	339.95	9,540.33	211.43	-909.90	315.87	12.00	12.00	0.00
9,847.00	89.56	339.95	9,541.00	232.08	-917.44	337.27	12.00	12.00	0.00
Turn 2°/100'									
9,900.00	89.56	341.01	9,541.41	282.03	-935.14	388.94	2.00	0.00	2.00
10,000.00	89.56	343.01	9,542.18	377.14	-966.03	486.99	2.00	0.00	2.00
10,100.00	89.56	345.01	9,542.95	473.26	-993.57	585.66	2.00	0.00	2.00
10,200.00	89.56	347.01	9,543.73	570.28	-1,017.74	684.84	2.00	0.00	2.00
10,300.00	89.56	349.01	9,544.50	668.10	-1,038.52	784.41	2.00	0.00	2.00
10,400.00	89.56	351.01	9,545.28	766.57	-1,055.86	884.23	2.00	0.00	2.00
10,500.00	89.56	353.01	9,546.05	865.59	-1,069.76	984.20	2.00	0.00	2.00
10,600.00	89.56	355.01	9,546.82	965.04	-1,080.20	1,084.18	2.00	0.00	2.00
10,700.00	89.56	357.01	9,547.59	1,064.79	-1,087.15	1,184.06	2.00	0.00	2.00
10,800.00	89.56	359.01	9,548.35	1,164.72	-1,090.62	1,283.72	2.00	0.00	2.00
10,820.93	89.56	359.43	9,548.51	1,185.64	-1,090.91	1,304.54	2.00	0.00	2.00
8881' Hold									
10,900.00	89.56	359.43	9,549.11	1,264.71	-1,091.70	1,383.16	0.00	0.00	0.00
11,000.00	89.56	359.43	9,549.87	1,364.70	-1,092.69	1,482.59	0.00	0.00	0.00
11,100.00	89.56	359.43	9,550.63	1,464.70	-1,093.69	1,582.01	0.00	0.00	0.00
11,200.00	89.56	359.43	9,551.39	1,564.69	-1,094.69	1,681.44	0.00	0.00	0.00
11,300.00	89.56	359.43	9,552.15	1,664.68	-1,095.68	1,780.87	0.00	0.00	0.00
11,400.00	89.56	359.43	9,552.91	1,764.67	-1,096.68	1,880.30	0.00	0.00	0.00
11,500.00	89.56	359.43	9,553.67	1,864.66	-1,097.68	1,979.73	0.00	0.00	0.00
11,600.00	89.56	359.43	9,554.43	1,964.66	-1,098.67	2,079.16	0.00	0.00	0.00
11,700.00	89.56	359.43	9,555.19	2,064.65	-1,099.67	2,178.59	0.00	0.00	0.00
11,800.00	89.56	359.43	9,555.95	2,164.64	-1,100.66	2,278.02	0.00	0.00	0.00
11,900.00	89.56	359.43	9,556.71	2,264.63	-1,101.66	2,377.45	0.00	0.00	0.00
12,000.00	89.56	359.43	9,557.47	2,364.63	-1,102.66	2,476.87	0.00	0.00	0.00
12,100.00	89.56	359.43	9,558.23	2,464.62	-1,103.65	2,576.30	0.00	0.00	0.00
12,200.00	89.56	359.43	9,558.99	2,564.61	-1,104.65	2,675.73	0.00	0.00	0.00
12,300.00	89.56	359.43	9,559.75	2,664.60	-1,105.65	2,775.16	0.00	0.00	0.00
12,400.00	89.56	359.43	9,560.51	2,764.59	-1,106.64	2,874.59	0.00	0.00	0.00
12,500.00	89.56	359.43	9,561.27	2,864.59	-1,107.64	2,974.02	0.00	0.00	0.00
12,600.00	89.56	359.43	9,562.03	2,964.58	-1,108.64	3,073.45	0.00	0.00	0.00
12,700.00	89.56	359.43	9,562.79	3,064.57	-1,109.63	3,172.88	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Eddy Co., NM (NAD 83)
Site: Starship 28-21
Well: W00B Fee #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well W00B Fee #2H
RKB=28' @ 3091.00usft (Patterson 244)
RKB=28' @ 3091.00usft (Patterson 244)
Grid
Minimum Curvature

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)
12,800.00	89.56	359.43	9,563.55	3,164.56	-1,110.63	3,272.30	0.00	0.00	0.00
12,900.00	89.56	359.43	9,564.31	3,264.55	-1,111.63	3,371.73	0.00	0.00	0.00
13,000.00	89.56	359.43	9,565.07	3,364.55	-1,112.62	3,471.16	0.00	0.00	0.00
13,100.00	89.56	359.43	9,565.83	3,464.54	-1,113.62	3,570.59	0.00	0.00	0.00
13,200.00	89.56	359.43	9,566.59	3,564.53	-1,114.62	3,670.02	0.00	0.00	0.00
13,300.00	89.56	359.43	9,567.35	3,664.52	-1,115.61	3,769.45	0.00	0.00	0.00
13,400.00	89.56	359.43	9,568.11	3,764.52	-1,116.61	3,868.88	0.00	0.00	0.00
13,500.00	89.56	359.43	9,568.87	3,864.51	-1,117.60	3,968.31	0.00	0.00	0.00
13,600.00	89.56	359.43	9,569.63	3,964.50	-1,118.60	4,067.73	0.00	0.00	0.00
13,700.00	89.56	359.43	9,570.39	4,064.49	-1,119.60	4,167.16	0.00	0.00	0.00
13,800.00	89.56	359.43	9,571.15	4,164.48	-1,120.59	4,266.59	0.00	0.00	0.00
13,900.00	89.56	359.43	9,571.91	4,264.48	-1,121.59	4,366.02	0.00	0.00	0.00
14,000.00	89.56	359.43	9,572.67	4,364.47	-1,122.59	4,465.45	0.00	0.00	0.00
14,100.00	89.56	359.43	9,573.43	4,464.46	-1,123.58	4,564.88	0.00	0.00	0.00
14,200.00	89.56	359.43	9,574.19	4,564.45	-1,124.58	4,664.31	0.00	0.00	0.00
14,300.00	89.56	359.43	9,574.95	4,664.44	-1,125.58	4,763.74	0.00	0.00	0.00
14,400.00	89.56	359.43	9,575.71	4,764.44	-1,126.57	4,863.16	0.00	0.00	0.00
14,500.00	89.56	359.43	9,576.47	4,864.43	-1,127.57	4,962.59	0.00	0.00	0.00
14,600.00	89.56	359.43	9,577.23	4,964.42	-1,128.57	5,062.02	0.00	0.00	0.00
14,700.00	89.56	359.43	9,577.99	5,064.41	-1,129.56	5,161.45	0.00	0.00	0.00
14,800.00	89.56	359.43	9,578.75	5,164.41	-1,130.56	5,260.88	0.00	0.00	0.00
14,900.00	89.56	359.43	9,579.51	5,264.40	-1,131.55	5,360.31	0.00	0.00	0.00
15,000.00	89.56	359.43	9,580.27	5,364.39	-1,132.55	5,459.74	0.00	0.00	0.00
15,100.00	89.56	359.43	9,581.03	5,464.38	-1,133.55	5,559.17	0.00	0.00	0.00
15,200.00	89.56	359.43	9,581.79	5,564.37	-1,134.54	5,658.59	0.00	0.00	0.00
15,300.00	89.56	359.43	9,582.55	5,664.37	-1,135.54	5,758.02	0.00	0.00	0.00
15,400.00	89.56	359.43	9,583.31	5,764.36	-1,136.54	5,857.45	0.00	0.00	0.00
15,500.00	89.56	359.43	9,584.07	5,864.35	-1,137.53	5,956.88	0.00	0.00	0.00
15,600.00	89.56	359.43	9,584.83	5,964.34	-1,138.53	6,056.31	0.00	0.00	0.00
15,700.00	89.56	359.43	9,585.59	6,064.33	-1,139.53	6,155.74	0.00	0.00	0.00
15,800.00	89.56	359.43	9,586.35	6,164.33	-1,140.52	6,255.17	0.00	0.00	0.00
15,900.00	89.56	359.43	9,587.11	6,264.32	-1,141.52	6,354.60	0.00	0.00	0.00
16,000.00	89.56	359.43	9,587.87	6,364.31	-1,142.52	6,454.03	0.00	0.00	0.00
16,100.00	89.56	359.43	9,588.63	6,464.30	-1,143.51	6,553.45	0.00	0.00	0.00
16,200.00	89.56	359.43	9,589.39	6,564.30	-1,144.51	6,652.88	0.00	0.00	0.00
16,300.00	89.56	359.43	9,590.15	6,664.29	-1,145.51	6,752.31	0.00	0.00	0.00
16,400.00	89.56	359.43	9,590.91	6,764.28	-1,146.50	6,851.74	0.00	0.00	0.00
16,500.00	89.56	359.43	9,591.67	6,864.27	-1,147.50	6,951.17	0.00	0.00	0.00
16,600.00	89.56	359.43	9,592.43	6,964.26	-1,148.49	7,050.60	0.00	0.00	0.00
16,700.00	89.56	359.43	9,593.19	7,064.25	-1,149.49	7,150.03	0.00	0.00	0.00
16,800.00	89.56	359.43	9,593.95	7,164.25	-1,150.49	7,249.46	0.00	0.00	0.00
16,900.00	89.56	359.43	9,594.71	7,264.24	-1,151.48	7,348.88	0.00	0.00	0.00
17,000.00	89.56	359.43	9,595.47	7,364.23	-1,152.48	7,448.31	0.00	0.00	0.00
17,100.00	89.56	359.43	9,596.23	7,464.22	-1,153.48	7,547.74	0.00	0.00	0.00
17,200.00	89.56	359.43	9,596.99	7,564.22	-1,154.47	7,647.17	0.00	0.00	0.00
17,300.00	89.56	359.43	9,597.75	7,664.21	-1,155.47	7,746.60	0.00	0.00	0.00
17,400.00	89.56	359.43	9,598.51	7,764.20	-1,156.47	7,846.03	0.00	0.00	0.00
17,500.00	89.56	359.43	9,599.27	7,864.19	-1,157.46	7,945.46	0.00	0.00	0.00
17,600.00	89.56	359.43	9,600.03	7,964.19	-1,158.46	8,044.89	0.00	0.00	0.00
17,700.00	89.56	359.43	9,600.79	8,064.18	-1,159.46	8,144.31	0.00	0.00	0.00
17,800.00	89.56	359.43	9,601.55	8,164.17	-1,160.45	8,243.74	0.00	0.00	0.00
17,900.00	89.56	359.43	9,602.31	8,264.16	-1,161.45	8,343.17	0.00	0.00	0.00
18,000.00	89.56	359.43	9,603.07	8,364.15	-1,162.45	8,442.60	0.00	0.00	0.00
18,100.00	89.56	359.43	9,603.83	8,464.15	-1,163.44	8,542.03	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W00B Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Project:	Eddy Co., NM (NAD 83)	MD Reference:	RKB=28' @ 3091.00usft (Patterson 244)
Site:	Starship 28-21	North Reference:	Grid
Well:	W00B Fee #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
18,200.00	89.56	359.43	9,604.59	8,564.14	-1,164.44	8,641.46	0.00	0.00	0.00
18,300.00	89.56	359.43	9,605.35	8,664.13	-1,165.43	8,740.89	0.00	0.00	0.00
18,400.00	89.56	359.43	9,606.11	8,764.12	-1,166.43	8,840.32	0.00	0.00	0.00
18,500.00	89.56	359.43	9,606.87	8,864.11	-1,167.43	8,939.74	0.00	0.00	0.00
18,600.00	89.56	359.43	9,607.63	8,964.11	-1,168.42	9,039.17	0.00	0.00	0.00
18,700.00	89.56	359.43	9,608.39	9,064.10	-1,169.42	9,138.60	0.00	0.00	0.00
18,800.00	89.56	359.43	9,609.15	9,164.09	-1,170.42	9,238.03	0.00	0.00	0.00
18,900.00	89.56	359.43	9,609.91	9,264.08	-1,171.41	9,337.46	0.00	0.00	0.00
19,000.00	89.56	359.43	9,610.67	9,364.08	-1,172.41	9,436.89	0.00	0.00	0.00
19,100.00	89.56	359.43	9,611.43	9,464.07	-1,173.41	9,536.32	0.00	0.00	0.00
19,200.00	89.56	359.43	9,612.19	9,564.06	-1,174.40	9,635.75	0.00	0.00	0.00
19,300.00	89.56	359.43	9,612.95	9,664.05	-1,175.40	9,735.17	0.00	0.00	0.00
19,400.00	89.56	359.43	9,613.71	9,764.04	-1,176.40	9,834.60	0.00	0.00	0.00
19,500.00	89.56	359.43	9,614.47	9,864.04	-1,177.39	9,934.03	0.00	0.00	0.00
19,600.00	89.56	359.43	9,615.23	9,964.03	-1,178.39	10,033.46	0.00	0.00	0.00
19,701.48	89.56	359.43	9,616.00	10,065.50	-1,179.40	10,134.36	0.00	0.00	0.00
TD at 19701.48									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
W00B Fee #2H PBHL	0.00	0.00	9,616.00	10,065.50	-1,179.40	471,893.80	616,108.90	32.297078	-104.091343
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
550.00	550.00	0.00	0.00	Build 1.50°/100'
916.69	916.12	-4.78	-16.93	7817' Hold
8,733.98	8,697.43	-208.22	-738.07	Drop 1.50°/100'
9,100.67	9,063.55	-213.00	-755.00	Build 12°/100'
9,847.00	9,541.00	232.08	-917.44	Turn 2°/100'
10,820.93	9,548.51	1,185.64	-1,090.91	8881' Hold
19,701.48	9,616.00	10,065.50	-1,179.40	TD at 19701.48