

**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. 21932**

**MEWBOURNE OIL COMPANY'S  
HEARING EXHIBITS**

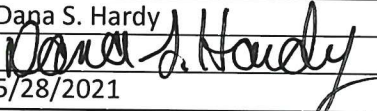
Compulsory Pooling Checklist

- |           |  |
|-----------|--|
| Exhibit A | Self-Affirmed Statement of Lee Scarborough                           |
| A-1       | Application & Proposed Notice of Hearing                             |
| A-2       | Midland Location Map   |
| A-3       | C-102(s)   |
| A-4       | Plat of Tracts, Tract Ownership, Pooled Parties, Unit Recapitulation |
| A-5       | Sample Well Proposal & AFE(s)  |
| A-6       | Communication Log  |
| A-7       | Hearing Notice Letter and Return Receipts                            |
| A-8       | Affidavit of Publication   |
| Exhibit B | Self-Affirmed Statement of Charles Crosby                            |
| B-1       | Location Map   |
| B-2       | Structure Map  |
| B-3       | Isopach  |
| B-4       | Cross Section  |
| B-5       | Production Table   |
| B-6       | Well Plan Survey   |

# COMPULSORY POOLING APPLICATION CHECKLIST

**ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

<b>Case No.:</b>	<b>21932</b>
<b>Hearing Date:</b>	<b>6/3/2021</b>
Applicant	Mewbourne Oil Company
Designated Operator & OGRID	OGRID # 14744
Applicant's Counsel	Hinkle Shanor LLP
Case Title	Application of Mewbourne Oil Company for Compulsory Pooling, Eddy County, New Mexico
Entries of Appearance/Intervenors	MRC Permian Company
Well Family	Rattlesnake
<b>Formation/Pool</b>	
Formation Name(s) or Vertical Extent	Bone Spring
Primary Product (Oil or Gas)	Oil
Pooling this vertical extent	Bone Spring
Pool Name and Pool Code	Scanlon Draw; Bone Spring pool (55510)
Well Location Setback Rules	Statewide
Spacing Unit Size	240-acre
<b>Spacing Unit</b>	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	240-acre
Building Blocks	quarter-quarter
Orientation	standup
Description: TRS/County	S/2S/2 of Section 13, Township 19 South, Range 28 East and the S/2SW/4 of Section 18, Township 19 South, Range 29 East, Eddy County
Standard Horizontal Well Spacing Unit (Y/N), if No, describe	Yes
<b>Other Situations</b>	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
<b>Well(s)</b>	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed
Well #1	Rattlesnake 13/18 B3MN (API # pending) SHL: 2070' FSL & 205' FWL (Unit L), Section 13, T19S-R28E BHL: 660' FSL & 2295' FWL (Unit N), Section 18, T19S-R29E Completion Target: Bone Spring formation (Approx. 8670' TVD)
Horizontal Well First and Last Take Points	Exhibit A-3
Completion Target (Formation, TVD and MD)	Exhibit A-5
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	8000
Production Supervision/Month \$	800
Justification for Supervision Costs	Exhibit A
Requested Risk Charge	200%
<b>Notice of Hearing</b>	
Proposed Notice of Hearing	Exhibit A-1
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit A-7
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit A-8
<b>Ownership Determination</b>	
Land Ownership Schematic of Spacing Unit	Exhibit A-4
Tract List (including lease numbers & owners)	Exhibit A-4
Pooled Parties (including ownership type)	Exhibit A-4
Unlocatable Parties to be Pooled	Exhibit A-4

Ownership Depth Severance	N/A
<b>Joinder</b>	
Sample Copy of Proposal Letter	Exhibit A-5
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-4
Chronology of Contact with Non-Joined Working Interests	Exhibit A-6
Overhead Rates In Proposal Letter	N/A
Cost Estimate to Drill and Complete	Exhibit A-5
Cost Estimate to Equip Well	Exhibit A-5
Cost Estimate for Production Facilities	Exhibit A-5
<b>Geology</b>	
Summary (including special considerations)	Exhibit B
Spacing Unit Schematic	Exhibit B-1
Gunbarrel/Lateral Trajectory Schematic	N/A
Well Orientation (with rationale)	Exhibit B
Target Formation	Exhibit B
HSU Cross Section	Exhibit B-3
Depth Severance Discussion	N/A
<b>Forms, Figures and Tables</b>	
C-102	Exhibit A-2
Tracts	Exhibit A-4
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-4
General Location Map (including basin)	Exhibit B-1
Well Bore Location Map	Exhibit B-1
Structure Contour Map - Subsea Depth	Exhibit B-2
Cross Section Location Map (including wells)	Exhibit B-2
Cross Section (including Landing Zone)	Exhibit B-3
<b>Additional Information</b>	Exhibit A-2: General location map
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
<b>Printed Name (Attorney or Party Representative):</b>	Dana S. Hardy
<b>Signed Name (Attorney or Party Representative):</b>	
<b>Date:</b>	5/28/2021

**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. 21932**

**SELF-AFFIRMED STATEMENT OF  
LEE SCARBOROUGH**

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 the lands subject to this case. A copy of the application and proposed notice are attached as **Exhibit A-1**.

3. I have previously testified before the Division, and my qualifications as an expert in petroleum land matters were accepted.

4. None of the parties proposed to be pooled in these cases indicated opposition to this case proceeding by affidavit, therefore I do not expect any opposition at hearing.

5. Mewbourne seeks an order pooling all uncommitted mineral interests in the Bone Spring formation in a 240-acre, more or less, standard horizontal spacing unit (“Unit”) comprised of the S/2S/2 of Section 13, Township 19 South, Range 28 East and the S/2SW/4 of Section 18, Township 19 South, Range 29 East, in Eddy County, New Mexico. A Midland Map depicting the Unit is attached as **Exhibit A-2**.

6. The Unit will be dedicated to the Rattlesnake 13/18 B3MN State Com #1H well (“Well”), which will be horizontally drilled from a surface location in Unit L of Section 13,

**MEWBOURNE OIL  
COMPANY  
Case No. 21932**

**Exhibit A**

Township 19 South, Range 28 East to a bottom hole location in Unit N of Section 18, Township 19 South, Range 29 East.

7. The Well is located in the Scanlon Draw; Bone Spring pool (55510). With respect to well setback requirements, this pool is subject to the statewide horizontal well rules set out in NMAC 19.15.16.15.

8. **Exhibit A-3** contains the C-102 for the Well.

9. **Exhibit A-4** identifies the tracts within the Unit, ownership interests in each tract, the interests Mewbourne seeks to pool, and a unit recapitulation.

10. There are no depth severances in the Bone Spring formation within the proposed Unit.

11. Mewbourne has the right to pool any overriding royalty owners in the Unit.

12. **Exhibit A-5** contains a sample well proposal letter and AFE sent to the working interest owners for the Well. The estimated costs reflected on the AFEs are fair and reasonable and comparable to the cost of other wells of similar depth and length drilled in the Bone Spring formation in the area.

13. Mewbourne has conducted a diligent search of all public records in Eddy County, including phone directories and computer databases.

14. There are no unlocatable interest owners within the Unit.

15. In my opinion, Mewbourne made a good-faith effort to reach voluntary joinder of uncommitted interests in the Well as indicated by the Chronology of Contact described in **Exhibit A-6**.

16. Notice of Mewbourne's application and the Division hearing was provided to the uncommitted interests by certified mail more than 20 days prior to the hearing date. A sample of the notice letter and the associated green cards are attached as **Exhibit A-7**.


17. Notice of Mewbourne's application and the Division hearing was published more than ten business days prior to the hearing date. The affidavit of publication is attached as **Exhibit A-8**.

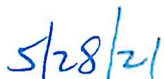
18. Mewbourne requests overhead and administrative rates of \$8,000 per month while the well is being drilled and \$800 per month while the well is producing. These rates are fair and are comparable to the rates charged by Mewbourne and by other operators in the vicinity.

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

20. In my opinion, the granting of Mewbourne's application would serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

21. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 20 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.

  
\_\_\_\_\_  
Lee Scarborough

  
\_\_\_\_\_  
Date

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

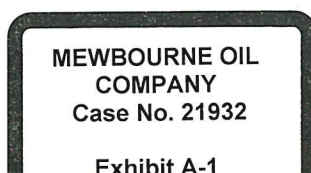
**APPLICATION OF MEWBOURNE OIL  
COMPANY FOR COMPULSORY POOLING,  
EDDY COUNTY, NEW MEXICO**

Case No. 21932

**APPLICATION**

Pursuant to NMSA § 70-2-17, Mewbourne Oil Company (“Mewbourne”) applies for an order pooling all uncommitted mineral interests in the Bone Spring formation in a 240-acre, more or less, standard horizontal spacing unit comprised of the S/2S/2 of Section 13, Township 19 South, Range 28 East and the S/2SW/4 of Section 18, Township 19 South, Range 29 East, in Eddy County, New Mexico (“Unit”). In support of its application, Mewbourne states:

1. Mewbourne (OGRID No. 14744) is a working interest owner in the Unit and has the right to drill wells thereon.
2. The Unit will be dedicated to the Rattlesnake 13/18 B3MN State Com #1H well, which will be horizontally drilled from a surface location in Unit L of Section 13, Township 19 South, Range 28 East to a bottom hole location in Unit N of Section 18, Township 19 South, Range 29 East.
3. The completed interval of the well 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 well 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 Unit 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 June 3, 2021 and that, after notice and hearing, the Division enter an order:

- A. Pooling all uncommitted interests in the Unit;
- B. Approving the well in the Unit;
- C. Designating Mewbourne as operator of the Unit and the well to be drilled thereon;
- D. Authorizing Mewbourne to recover its costs of drilling, equipping and completing the well;
- E. Approving the actual operating charges and costs of supervision while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- F. Imposing a 200% penalty for the risk assumed by Mewbourne in drilling and completing the well against any working interest owner who does not voluntarily participate in the drilling of the well.

Respectfully Submitted,

HINKLE SHANOR LLP

/s/ Dana S. Hardy

Dana S. Hardy

Michael Rodriguez

P.O. Box 2068

Santa Fe, NM 87504-2068

Phone: (505) 982-4554

Facsimile: (505) 982-8623

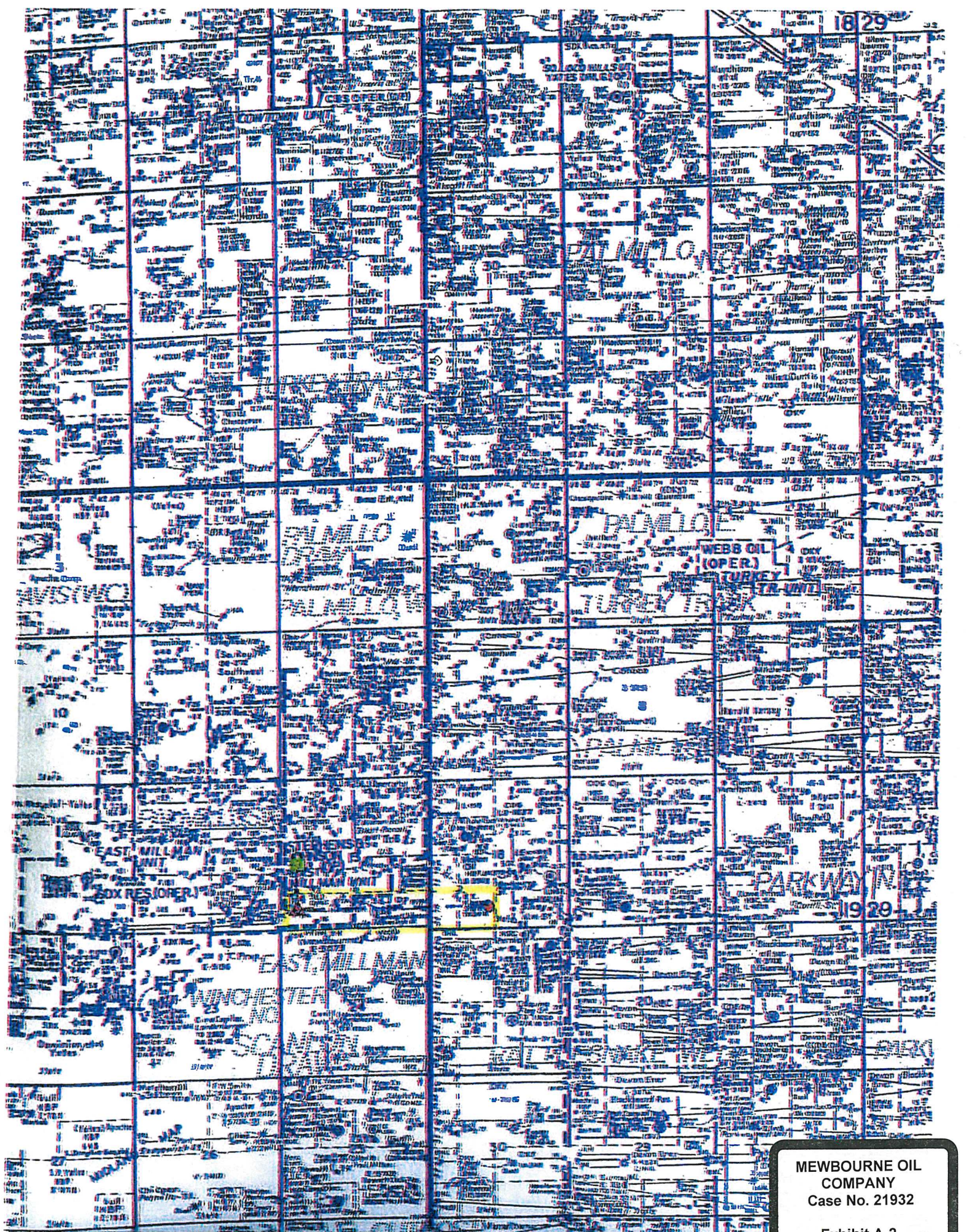
dhardy@hinklelawfirm.com

mrodriguez@hinklelawfirm.com

*Counsel for Mewbourne Oil Company*



**Application of Mewbourne Oil Company for compulsory pooling, Eddy County, New Mexico.** Applicant seeks an order pooling all uncommitted mineral interests in the Bone Spring formation in a 240-acre, more or less, standard horizontal spacing unit comprised of the S/2S/2 of Section 13, Township 19 South, Range 28 East and the S/2SW/4 of Section 18, Township 19 South, Range 29 East, in Eddy County, New Mexico ("Unit"). The Unit will be dedicated to the Rattlesnake 13/18 B3MN State Com #1H well, which will be horizontally drilled from a surface location in Unit L of Section 13, Township 19 South, Range 28 East to a bottom hole location in Unit N of Section 18, Township 19 South, Range 29 East. The completed interval for the well will be orthodox. Also to be considered will be the costs of drilling and completing the well and the allocation of the costs, the designation of Mewbourne Oil Company as the operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The well is located approximately 14 miles northeast of Carlsbad, New Mexico.



MEWBORNE OIL  
COMPANY  
Case No. 21932  
Exhibit A-2

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name			
4 Property Code		5 Property Name <b>RATTLESNAKE 13/18 B3MN STATE COM</b>				6 Well Number <b>1H</b>	
7 GRID NO.		8 Operator Name <b>MEWBOURNE OIL COMPANY</b>				9 Elevation <b>3388'</b>	

10 Surface Location

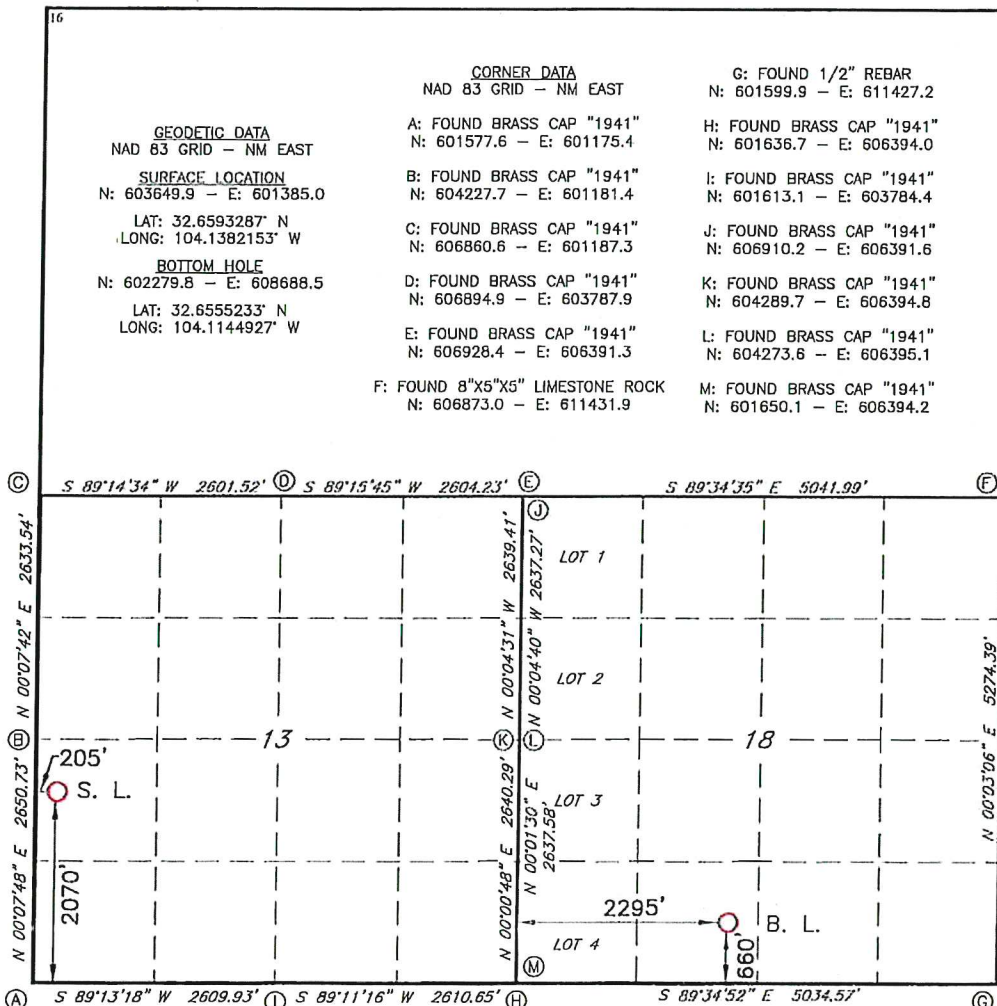
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
<b>L</b>	<b>13</b>	<b>19S</b>	<b>28E</b>		<b>2070</b>	<b>SOUTH</b>	<b>205</b>	<b>WEST</b>	<b>EDDY</b>

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>N</b>	<b>18</b>	<b>19S</b>	<b>29E</b>		<b>660</b>	<b>SOUTH</b>	<b>2295</b>	<b>WEST</b>	<b>EDDY</b>

12 Dedicated Acres	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.

**11-04-2019**  
Date of Survey  
Signature and Seal of Professional Surveyor \_\_\_\_\_

**19680**  
Certificate Number



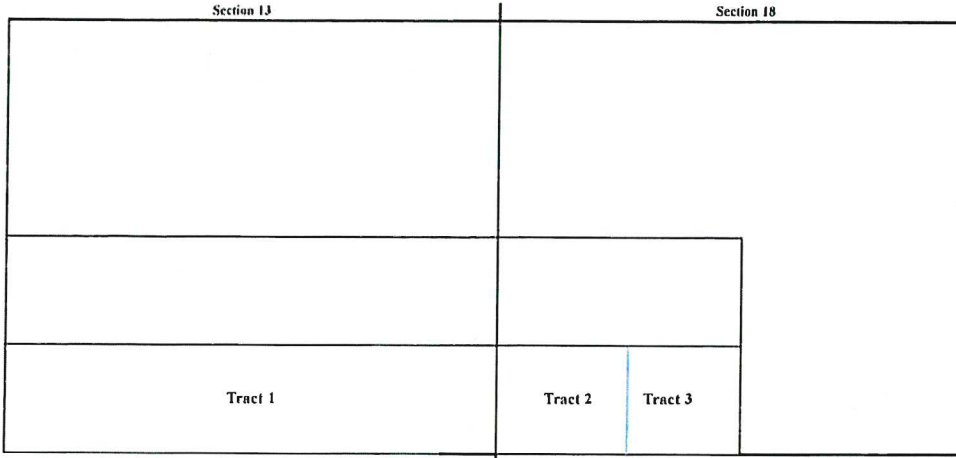
Job No.: LS

**MEWBOURNE OIL COMPANY**  
Case No. 21932  
Exhibit A-3

Section Plat  
Rattlesnake 13/18 B3MN State Com #1H  
S/2S/2 of Section 13 & S/2SW/4 of Section 18, Eddy County, New Mexico

T19S-R28E

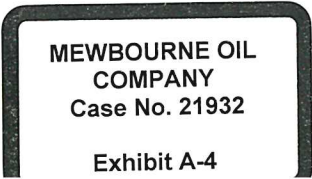
T19S-R29E



Tract Ownership		Tract 2: SW/4SW/4 of Section 18 - State Lease L-6367		Spacing Unit Ownership	
<b>Tract 1: S/2S/2 of Section 13 - State Lease 7668</b>		<b>Tract 2: SW/4SW/4 of Section 18 - State Lease L-6367</b>			
Mewbourne Oil Company	100	Mewbourne Oil Company	0.2050	Mewbourne Oil Company	68.8221
		Devon Energy Production Company, L.P.	25.0000	Devon Energy Production Company, L.P.	7.8105
<b>Tract 3: SE/4SW/4 of Section 18 - State Lease L.G-3968</b>		Oxy USA Inc	11.2448	Oxy USA Inc	1.7566
Mewbourne Oil Company	0.2050	Oxy USA WTP LP	31.4482	Oxy USA WTP LP	3.3504
Devon Energy Production Company, L.P.	25.0000	Alpha Energy Partners, LLC	10.8058	Alpha Energy Partners, LLC	3.3760
Oxy USA Inc	11.2448	Carolyn R. Beall	0.5000	Carolyn R. Beall	0.1562
Oxy USA WTP LP	21.4482	Betty R. Young	0.5000	Betty R. Young	0.1562
Alpha Energy Partners, LLC	10.8058	MRC Permian Company	2.2570	MRC Permian Company	0.7051
Carolyn R. Beall	0.5000	Norman L. Stevens, III	1.5001	Norman L. Stevens, III	0.4686
Betty R. Young	0.5000	Highland (Texas) Energy Co	0.2501	Highland (Texas) Energy Co	0.0781
MRC Permian Company	2.2570	Magnum Hunter Production, Inc	20.6327	Magnum Hunter Production, Inc	6.4461
Norman L. Stevens, III	1.5001	HFB Investments Company, LP	0.1290	HFB Investments Company, LP	0.0403
Highland (Texas) Energy Co	0.2501	Prince Petroleum Company, Ltd	2.4501	Prince Petroleum Company, Ltd	0.7655
Magnum Hunter Production, Inc	20.6327	Vladin, LLC	0.7028	Vladin, LLC	0.2196
HFB Investments Company, LP	0.1290	Trust Q	0.7028	Trust Q	0.2196
Prince Petroleum Company, Ltd	2.4501	Rubv Kenndv	0.2952	Rubv Kenndv	0.0922
Vladin, LLC	0.7028	Gerald Roach	0.1757	Gerald Roach	0.0549
Trust Q	0.7028	Golden E. Anderson	0.1757	Golden E. Anderson	0.0549
Rubv Kenndv	0.2952	Dick Blendon	0.5271	Dick Blendon	0.1647
Gerald Roach	0.1757	Wanda Porter	0.2050	Wanda Porter	0.0640
Golden E. Anderson	0.1757	Faith Kennedy	0.2050	Faith Kennedy	0.0640
Dick Blendon	0.5271	Sue Howard	0.0293	Sue Howard	0.0091
Wanda Porter	0.2050	Roxanna Lynn Mills	0.0293	Roxanna Lynn Mills	0.0091
Faith Kennedy	0.2050	Teresa Jane Burns	0.0293	Teresa Jane Burnsides	0.0091
Sue Howard	0.0293		100.0000	CRP XII, LLP	5.1070
Roxanna Lynn Mills	0.0293				100.0000
Teresa Jane Burns	0.0293			**Pooled Parties	9.81%
	100.0000				

**RECAPITULATION FOR Rattlesnake 13/18 B3MN State Com #1H**

Tract Number	Number of Acres Committed	Percentage of Interest in Communitized Area
1	160	66.66667%
2	40	33.33333%
3	40	33.33333%
<b>TOTAL</b>	<b>240</b>	<b>100.00000%</b>



# MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

March 31, 2021

## Certified Mail

### WORKING INTEREST OWNERS

Re: Rattlesnake 13/18 B2LK State Com #1H  
Rattlesnake 13/18 B3LK State Com #1H  
Rattlesnake 13/18 B3MN State Com #1H  
Section 13, Township 19 South, Range 28 East  
Section 18, Township 19 South, Range 29 East  
Eddy County, New Mexico

### WORKING INTEREST OWNER:

Mewbourne Oil Company (“Mewbourne”), as Operator, proposes to drill three (3) Bone Spring wells under the terms of the Rattlesnake 13/18 Prospect Operating Agreement dated June 1, 2019. These wells are detailed below:

Rattlesnake 13/18 B3LK State Com #1H (API# 30-015-45273)  
Surface Location: 2,100’ FSL, 205’ FWL, Section 13  
Bottom Hole Location: 2,100’ FSL, 2,187’ FWL, Section 18  
Proposed Total Vertical Depth: 7,811’  
Proposed Total Measured Depth: 15,786’  
Pool: Scanlon Draw; Bone Spring (55510) – Third Bone Spring Sand  
Estimated Spud Date: end of May, 2021

Rattlesnake 13/18 B2LK State Com #1H (API# 30-015-45272)  
Surface Location: 2,130’ FSL, 205’ FWL, Section 13  
Bottom Hole Location: 2,100’ FSL, 2,295’ FWL, Section 18  
Proposed Total Vertical Depth: 7,811’  
Proposed Total Measured Depth: 14,754’  
Pool: Scanlon Draw; Bone Spring (55510) – Second Bone Spring Sand  
Estimated Spud Date: end of June, 2021

Rattlesnake 13/18 B3MN State Com #1H (API# 30-015-46641)  
Surface Location: 2,070’ FSL, 205’ FWL, Section 13  
Bottom Hole Location: 660’ FSL, 2,295’ FWL, Section 18  
Proposed Total Vertical Depth: 8,670’  
Proposed Total Measured Depth: 16,105’  
Pool: Scanlon Draw; Bone Spring (55510) – Third Bone Spring Sand  
Estimated Spud Date: end of July, 2021

Mewbourne will drill these wells “back-to-back”, utilizing a “walking rig”, in an effort to maximize cost efficiencies by reducing mobilization charges.

MEWBOURNE OIL  
COMPANY  
Case No. 21932

Exhibit A-5

Enclosed are Mewbourne's cost estimate (AFEs) for each well. A copy of the previously executed Operating Agreement is also included along with an acknowledgement and acceptance of the revised spud date and location of the initial well (Page 5, Article VI.A) and Exhibit "A". After your review, please sign and return one AFE for each well to the undersigned along with the acknowledgement below, amending the Operating Agreement.

Should you have any questions regarding the above, please email me at [lscarborough@mewbourne.com](mailto:lscarborough@mewbourne.com) or call me at (432) 682-3715.

Very truly yours,

**MEWBOURNE OIL COMPANY**

Lee M. Scarborough  
Landman

Enclosures

**ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF REVISIONS TO THE  
RATTLESNAKE 13/18 OPERATING AGREEMENT DATED JUNE 1, 2019.**

Signature: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

**MEWBOURNE OIL COMPANY**  
AUTHORIZATION FOR EXPENDITURE

Well Name:	RATTLESNAKE 13/18 B3MN STATE COM #1H			Prospect:	Rattlesnake 13/18		
Location:	SL: 2070 FSL & 205 FWL (13); BHL: 660 FSL & 2295 FWL (18)			County:	Eddy		ST: NM
Sec.	13	Blk:		Survey:		TWP:	19S
				RNG:	28E	Prop. TVD:	8670
				TMD:	16105		

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$10,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$65,000	0180-0205	\$35,000
Location / Restoration		0180-0106	\$200,000	0180-0206	\$50,000
Daywork / Turnkey / Footage Drilling	18 days drlg / 3 days comp @ \$19500/d	0180-0110	\$374,900	0180-0210	\$62,500
Fuel	1700 gal/day @ \$3/gal	0180-0114	\$98,000	0180-0214	\$275,000
Alternate Fuels		0180-0115		0180-0215	
Mud, Chemical & Additives		0180-0120	\$60,000	0180-0220	
Mud - Specialized		0180-0121	\$100,000	0180-0221	
Horizontal Drillout Services				0180-0222	\$150,000
Stimulation Toe Preparation				0180-0223	\$25,000
Cementing		0180-0125	\$80,000	0180-0225	\$35,000
Logging & Wireline Services		0180-0130	\$2,300	0180-0230	\$253,000
Casing / Tubing / Snubbing Services		0180-0134	\$18,000	0180-0234	\$40,000
Mud Logging		0180-0137	\$15,000		
Stimulation	44 Stg 14.5 MM gal / 14.5 MM lb			0180-0241	\$1,070,000
Stimulation Rentals & Other				0180-0242	\$150,000
Water & Other		0180-0145	\$40,000	0180-0245	\$173,000
Bits		0180-0148	\$85,400	0180-0248	\$5,000
Inspection & Repair Services		0180-0150	\$50,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$12,000	0180-0258	\$24,000
Completion / Workover Rlg				0180-0260	\$10,500
Rig Mobilization		0180-0164	\$120,000		
Transportation		0180-0165	\$30,000	0180-0265	\$13,400
Welding, Construction & Maint. Services		0180-0168	\$4,000	0180-0268	\$15,000
Contract Services & Supervision		0180-0170	\$34,500	0180-0270	\$31,500
Directional Services	Includes Vertical Control	0180-0175	\$232,500		
Equipment Rental		0180-0180	\$155,500	0180-0280	\$5,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$4,200	0180-0285	
Intangible Supplies		0180-0188	\$7,000	0180-0288	\$1,000
Damages		0180-0190	\$10,000	0180-0290	\$10,000
Pipeline Interconnect, ROW Easements		0180-0192		0180-0292	\$5,000
Company Supervision		0180-0195	\$138,000	0180-0295	\$63,000
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Contingencies	2% (TCP) 2% (CC)	0180-0199	\$39,200	0180-0299	\$50,700
<b>TOTAL</b>			<b>\$2,000,500</b>		<b>\$2,587,500</b>

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0")	360' - 13 3/8" 54.5# J-55 ST&C @ \$36.5/ft	0181-0794	\$14,000		
Casing (8.1" - 10.0")	1100' - 9 5/8" 36# J-55 LT&C @ \$20.5/ft	0181-0795	\$24,100		
Casing (6.1" - 8.0")	8850' - 7" 29# HCP-110 LT&C @ \$27/ft	0181-0796	\$255,200		
Casing (4.1" - 6.0")	7800' - 4 1/2" 13.5# P-110 BPN @ \$14.5/ft			0181-0797	\$120,800
Tubing	8325' - 2 7/8" 6.5# L-80 Tbg @ \$7.82/ft			0181-0798	\$69,500
Drilling Head		0181-0860	\$35,000		
Tubing Head & Upper Section				0181-0870	\$30,000
Horizontal Completion Tools	Completion Liner Hanger			0181-0871	\$50,000
Subsurface Equip. & Artificial Lift				0181-0880	\$25,000
Pumping Unit Systems				0181-0885	
Service Pumps	(1/3) TP/CP/Circ pump			0181-0886	\$8,400
Storage Tanks	(1/3) 6 OT/5 WT/GB			0181-0890	\$100,000
Emissions Control Equipment	(1/3) VRT's/VRU/Flare/KO's			0181-0892	\$80,200
Separation / Treating Equipment	(1/3) H sep/V sep/IHT			0181-0895	\$85,000
Automation Metering Equipment				0181-0898	\$50,000
Line Pipe & Valves - Gathering	(1/3) 1 mile gas			0181-0900	\$15,900
Fittings / Valves & Accessories				0181-0906	\$133,400
Cathodic Protection				0181-0908	\$5,000
Electrical Installation				0181-0909	\$83,400
Equipment Installation				0181-0910	\$58,400
Pipeline Construction	(1/3) 1 mile gas			0181-0920	\$45,800
<b>TOTAL</b>			<b>\$328,300</b>		<b>\$960,800</b>
<b>SUBTOTAL</b>			<b>\$2,328,800</b>		<b>\$3,548,400</b>

<b>TOTAL WELL COST</b>		<b>\$5,877,200</b>	
------------------------	--	--------------------	--

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: Levi Jackson Date: 3/25/2021

Company Approval: *M. Whittle* Date: 3/30/2021

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_ Signature: \_\_\_\_\_

**Summary of Communications**  
Rattlesnake 13/18 B3MN State Com #1H

Devon Energy Production Company, LP

- 1) Mailed well proposal via Certified Mail March 31, 2021; proof of receipt dated April 8, 2021 is also included.
- 2) Email on drill schedule – 4/19/2021.
- 3) Email on drill schedule – 4/29/2021.

MRC Permian Company

- 1) Mailed well proposal via Certified Mail March 21, 2021; proof of receipt dated April 8, 2021 is also included.
- 2) 4/16/21 - Email from MRC requesting technical data.
- 3) 4/19/21 – Sent type log to MRC per request.

Carolyn Read Beall

- 1) Mailed well proposal via Certified Mail March 31, 2021; proof of receipt dated April 6, 2021 is also included.
- 2) 5/21/21 – met on operating agreement – currently working through issues.

Ruby Kennedy

- 1) Mailed well proposal via Certified Mail April 29, 2021; Undeliverable notice dated 5/21/21 received.

Wanda Porter

- 1) Unknown address.

Faith Kennedy

- 1) Unknown address.

Gerald F. Roach

- 1) Unknown address.

Golden E. Anderson

- 1) Mailed well proposal via Certified Mail April 29, 2021; not deliverable.

HFB Investments Company, LP

- 1) Mailed well proposal via Certified Mail April 29, 2021; not deliverable.
- 2) Spoke with Mr. Boles 5/21/21.
- 3) Sent title information 5/24/21.

Prince Petroleum Company, LP

- 1) Unknown address.

Sue Howard

- 1) Unknown address.

Teresa Jane Burnside

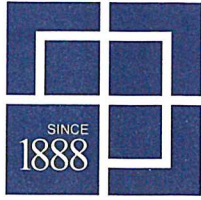


Summary of Communications  
Page 2 of 2

- 1) Mailed well proposal via Certified Mail April 29, 2021; not deliverable.

Roxanna Lynne Mill

- 1) Mailed well proposal via Certified Mail April 29, 2021; not deliverable.



hinklelawfirm.com

# 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

May 6, 2021

VIA CERTIFIED MAIL

TO ALL INTEREST OWNERS SUBJECT TO POOLING PROCEEDINGS

Re: Mewbourne Oil Company NMOCD Application,  
NMOCD Case No. 21932

To Whom it May Concern:

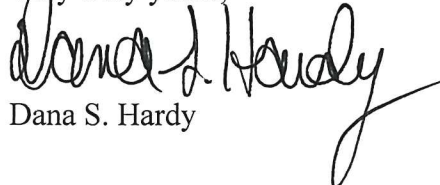
Enclosed is a copy of an application that Mewbourne Oil Company ("Mewbourne") has filed with the New Mexico Oil Conservation Division ("the Division"). The application (Case No. 21932) seeks an order pooling all uncommitted mineral interests in the Bone Spring formation in a 240-acre, more or less, standard horizontal spacing unit comprised of the S/2S/2 of Section 13, Township 19 South, Range 28 East and the S/2SW/4 of Section 18, Township 19 South, Range 29 East, in Eddy County, New Mexico.

During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on June 3, 2021, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: <http://www.emnrd.state.nm.us/OCD/hearings.html>. You are not required to attend the hearing, but as an owner of an interest that may be affected by Mewbourne's application, you may appear at the hearing and present testimony. If you do not appear at that time and become a party of record, you 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 May 27, 2021. The Pre-Hearing Statement must be filed with the Division 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

**MEWBOURNE OIL  
COMPANY  
Case No. 21932**

**Exhibit A-7**

DSH:kca  
Enclosure

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

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

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Return Receipt (electronic) \$ \_\_\_\_\_

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Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage \$ \_\_\_\_\_

Total Postage and Fees \$ \_\_\_\_\_

Sent To Golden E. Anderson  
 Street and # Rt. 8, Box 358  
 City, State, & Zip Benton, KY 42025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

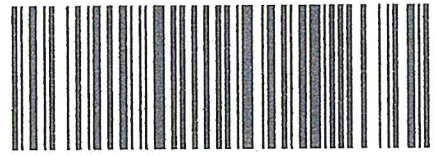


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 SANTA FE, NEW MEXICO 87504

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 MAY 18 2021

Hinkle Shanor LLP  
 Santa Fe NM 87504

UTF



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Golden E. Anderson  
 Rt. 8, Box 358  
 101 Hillcrest Drive  
 Benton, KY 42025

First Notice \_\_\_\_\_  
 Second Notice \_\_\_\_\_  
 Returner \_\_\_\_\_

NIXIE 402 FE 1 0005/14

RETURN TO SENDER  
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 UNABLE TO FORWARD

BC: 875042000615400 \*0268-03956-01

1: 93270000615400

UTF

42025-87504 9628

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Adult Signature Required \$ \_\_\_\_\_

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Postage \$ \_\_\_\_\_

**Total Postage and Fees** \$ \_\_\_\_\_

Sent To Carolyn Read Beall  
P.O. Box 3098  
Street and Apt Midland, TX 79702  
City, State, Zip \_\_\_\_\_

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, front if space permits.</li> </ul>	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X <i>Carolyn Beall</i></p> <p>B. Received by (Printed Name) <i>Carolyn Beall</i> C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No  If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p>Carolyn Read Beall  P.O. Box 3098  Midland, TX 79702</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)</p> <p>7019 2280 0001 9628 5972</p>	

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Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

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Total Postage and Fees \$ \_\_\_\_\_

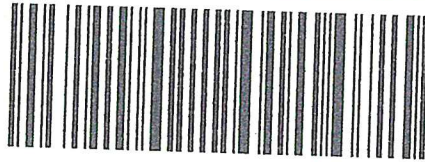
Sent To \_\_\_\_\_

Street and Ap \_\_\_\_\_  
Teresa Jane Burnsidess  
301 Wilcrest, #3605  
Houston, TX 77042

City, State, Zi \_\_\_\_\_

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MAY 18 2021

Teresa Jane Burnsidess  
301 Wilcrest, #3605  
Houston, TX 77042

Hinkle Shanor LLP  
Santa Fe NM 87504

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7704281040 002

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Sent To Devon Energy Production Co., L.P.  
Attn: Cari J. Allen  
Street and Apt 333 W. Sheridan Ave.  
City, State, Zip Oklahoma City, OK 73102-5015

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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1. Article Addressed to:  
Devon Energy Production Company,  
L.P.  
Attn: Cari J. Allen  
333 W. Sheridan Ave.  
Oklahoma City, OK 73102-5015



9590 9402 5941 0062 9807 16

2. Article Number (Transfer from service label)

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A. Signature  Agent  
 DLUPER  Addressee

B. Received by (Printed Name) to CJL C. Date of Delivery

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



3. Service Type
- Adult Signature
  - Adult Signature Restricted Delivery
  - Certified Mail®
  - Certified Mail Restricted Delivery
  - Collect on Delivery
  - Collect on Delivery Restricted Delivery
  - Insured Mail
  - Insured Mail Restricted Delivery (over \$500)
  - Priority Mail Express®
  - Registered Mail™
  - Registered Mail Restricted Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053

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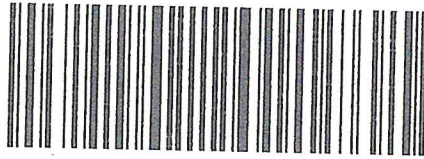
Certified Mail Fee \$  
 Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$  
 Return Receipt (electronic) \$  
 Certified Mail Restricted Delivery \$  
 Adult Signature Required \$  
 Adult Signature Restricted Delivery \$

Postage \$  
 Total Postage and Fees \$

Sent To The Ferguson Family Trust  
 Street and Rosemary Martin Ferguson, Trustee  
 713 W. Clayton Ave.  
 City, State, Artesia, NM 88210

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 301 WEST OFFICE BOX 2068  
 ALBUQUERQUE, NEW MEXICO 87504

05/22/2021



The Ferguson Family Trust  
 Rosemary Martin Ferguson, Trustee  
 713 W. Clayton Ave.  
 Artesia, NM 88210

NIXIE 750 PE 1 88210/18/20

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Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postmark  
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Street and Apt. HFB Investments Company, LP \_\_\_\_\_

P.O. Box 2021 \_\_\_\_\_

City, State, Zip Midland, TX 79702 \_\_\_\_\_

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<p>1. Article Addressed to:</p> <p>HFB Investments Company, LP                      Attn: Herbert F. Boles                      P.O. Box 2021                      Midland, TX 79702</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery</p> <p><input checked="" type="checkbox"/> Certified Mail®</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>2. Article Number (Transfer from service label)</p> <p>7019 2280 0001 9628 6016</p>	<p>Barcode: 9590 9402 5941 0062 9806 93</p>

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



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Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
 \$ \_\_\_\_\_

Total Postage and Fees  
 \$ \_\_\_\_\_

Sent To  
 Highland (Texas) Energy Company  
 7557 Rambler Road, #918  
 Dallas, TX 75231

Street and Ap  
 \_\_\_\_\_

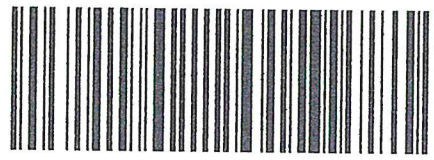
City, State, Zi  
 \_\_\_\_\_

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7019 2280 0001 9628 6054



5/10

Highland (Texas) Energy Company  
 Attn: Truitt Matthews  
 7557 Rambler Road, #918  
 Dallas, TX 75231

871 NEE 1 22810005/05/21  
 FORWARD TIME EXP RTN TO SEND  
 HIGHLAND TEXAS ENERGY COMPANY  
 11886 GREENVILLE AVE VIL 156  
 DALLAS TX 75243-3569

RETURN TO SENDER

87504 2068  
 75231 9628 6054

7019 2280 0001 9628 5965

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage \$ \_\_\_\_\_

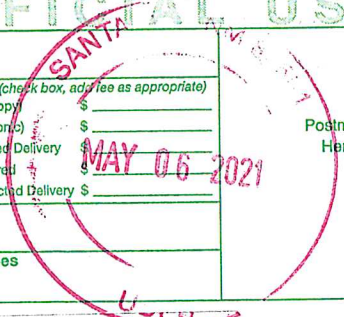
Total Postage and Fees \$ \_\_\_\_\_


Sent To \_\_\_\_\_

Street and \_\_\_\_\_  
 City, State \_\_\_\_\_

Huntington Resources, Inc.  
 2118 South Atlanta Place, #201  
 Tulsa, OK 74114

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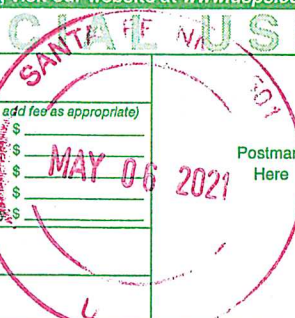
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Street and: Ruby Kennedy  
1503 Sears  
City, State: Artesia, NM 88210

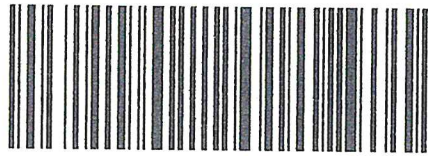
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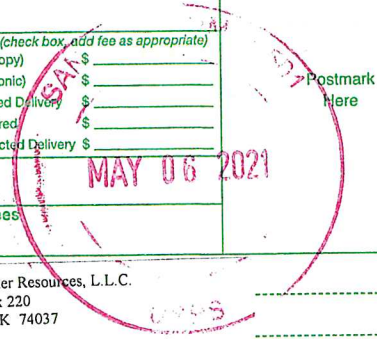
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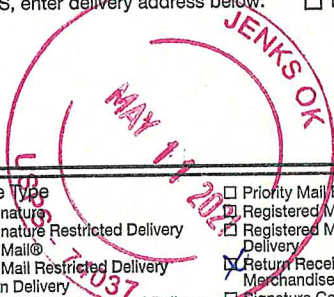
Total Postage and Fees \$ \_\_\_\_\_

Sent To Landcaster Resources, L.L.C.  
 Street and P.O. Box 220  
 Jenks, OK 74037  
 City, State, \_\_\_\_\_

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<p>1. Article Addressed to:</p> <p>Landcaster Resources, L.L.C.          Attn: Jeffrey D. Allen          P.O. Box 220          Jenks, OK 74037</p> <p>9590 9402 5941 0062 9806 48</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail® <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail  <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>2. Article Number (Transfer from service label)          7019 2280 0001 9628 5934</p>	<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>



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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: **Magnum Hunter Production, Inc.**  
Street and: 600 N. Marienfeld, #600  
City, State: Midland, TX 79701

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1. Article Addressed to:

Magnum Hunter Production, Inc.  
Attn: Riley C. Morris  
600 N. Marienfeld, #600  
Midland, TX 79701



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*[Signature]*

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*Riley C. Morris*

C. Date of Delivery

*5-10-2021*

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 MRC Permian Company  
 Street and #: 5400 LBJ Freeway, #1500  
 Dallas, TX 75240  
 City, State, : \_\_\_\_\_

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<p>1. Article Addressed to:</p> <p>MRC Permian Company          Attn: Nick Weeks          5400 LBJ Freeway, #1500          Dallas, TX 75240</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Signature Confirmation Restricted Delivery (over \$500)</p>
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 5 Greenway Plaza, #110  
 Houston, TX 77046-0521

City, State \_\_\_\_\_

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<p>1. Article Addressed to:</p> <p>Oxy USA, Inc.          Attn: Jonathan I. Gonzales          5 Greenway Plaza, #110          Houston, TX 77046-0521</p> <p>9590 9402 5941 0062 9890 61</p>	<p>B. Received by (Printed Name) <u>OK</u> C. Date of Delivery <u>5/10/21</u></p>
<p>2. Article Number (Transfer from service label)          7019 2280 0001 9628 5903</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No          If YES, enter delivery address below:</p> <p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input checked="" type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>	<p>Domestic Return Receipt</p>

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 Adult Signature Restricted Delivery \$

Postage \$  
 Total Postage and Fees \$

Sent To  
 Prince Petroleum Company, LP  
 Street and Apt. 306 W. 7<sup>th</sup> St., #701  
 City, State, ZIP Ft. Worth, TX 76102

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1. Article Addressed to:

Prince Petroleum Company, LP  
 Attn: Landon Hodges, III  
 306 W. 7<sup>th</sup> St., #701  
 Ft. Worth, TX 76102



9590 9402 5941 0062 9890 54

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 X Route 201 KY  Agent  
 Addressee

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Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage \$ \_\_\_\_\_

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Sent To

Gerald F. Roach  
 Street and Apt. 3517 Northwest  
 Hobbs, NM 88240  
 City, State, Z \_\_\_\_\_

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<p>1. Article Addressed to:</p> <p>Gerald F. Roach          3517 Northwest          Hobbs, NM 88240</p> <p>          9590 9402 5941 0062 9890 47</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>
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**Affidavit of Publication**

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**HINKLE SHANOR LLP**  
218 MONTEZUMA

**SANTA FE, NM 87501**

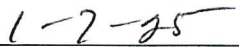
I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements 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:

05/14/2021

  
Legal Clerk

Subscribed and sworn before me this May 14, 2021:

  
State of WI, County of Brown  
NOTARY PUBLIC

  
My commission expires

KATHLEEN ALLEN  
Notary Public  
State of Wisconsin

This is to notify all interested parties, including Golden E. Anderson, Carolyn Read Beall, Theresa Jane Burnside, Devon Energy Production Company, Ferguson Family Trust, HFB Investments Company, LP, Highland (Texas) Energy Company, Sue Howard, Huntington Resources, Inc., Ruby Kennedy, Landcaster Resources, L.L.C., Magnum Hunter Production, Inc., Roxanna Lynne Mills, MRC Permian Company, Oxy USA, Inc., Prince Petroleum Company, LP, Gerald F. Roach, and their successors and assigns, that the New Mexico Oil Conservation Division will conduct a hearing on an application submitted by Mewbourne Oil Company (Case No. 21932). During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on June 3, 2021 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date at: <http://www.emnrd.state.nm.us/OCD/hearing.html>. Applicant seeks an order pooling all uncommitted mineral interests in the Bone Spring formation in a 240-acre, more or less, standard horizontal spacing unit comprised of the S/2S/2 of Section 13, Township 19 South, Range 28 East and the S/2SW/4 of Section 18, Township 19 South, Range 29 East, in Eddy County, New Mexico ("Unit"). The Unit will be dedicated to the Rattlesnake 13/18 B3MN State Com #1H well, which will be horizontally drilled from a surface location in Unit L of Section 13, Township 19 South, Range 28 East to a bottom hole location in Unit N of Section 18, Township 19 South, Range 29 East. The completed interval for the well will be orthodox. Also to be considered will be the costs of drilling and completing the well and the allocation of the costs, the designation of Mewbourne Oil Company as the operator of the well, and a 200% charge for the risk involved in drilling and completing the well. The well is located approximately 14 miles northeast of Carlsbad, New Mexico.

May 14, 2021

Ad # 0004736127  
PO #: 21932  
# of Affidavits 1

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**MEWBOURNE OIL  
COMPANY**  
Case No. 21932  
  
Exhibit A-8

**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. 21932**

**SELF-AFFIRMED STATEMENT OF  
CHARLES CROSBY**

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.
3. I have previously testified before the New Mexico Oil Conservation Division as an expert in geology, and my qualifications were accepted.
4. **Exhibit B-1** is a general location map of the proposed horizontal spacing unit (“Unit”). The approximate wellbore path of the proposed Rattlesnake 13/18 B3MN State Com #1H well is marked by a dashed red arrow.
5. **Exhibit B-2** is a structure map of the top of the Wolfcamp formation that is representative of the targeted interval. The map demonstrates the formation is dipping to the southeast in this area. I do not observe any faulting, pinch-outs, or geologic impediments to developing the targeted intervals with horizontal wells.
6. **Exhibit B-2** also contains a cross-section line consisting of five wells penetrating the Bone Spring formation used to construct a stratigraphic cross-section from A to A’.

MEWBOURNE OIL  
COMPANY  
Case No. 21932

Exhibit B

7. **Exhibit B-3** is a gross thickness isopach of the 3<sup>rd</sup> Bone Spring Sand, which is the target interval for the Rattlesnake 13/18 B3MN State Com 1H. The thickness of the 3<sup>rd</sup> Bone Spring Sand across the horizontal spacing unit is approximately 360-380 feet.

8. **Exhibit B-4** is a stratigraphic cross-section using the representative wells identified on **Exhibit B-2**. I consider these well logs to be representative of the geology in the area. Each well in the cross-section contains a gamma ray, resistivity and porosity log. The landing zone for the proposed well is labeled on the exhibit. The cross-section demonstrates the target interval within the Bone Spring formation is continuous across the Unit.

9. **Exhibit B-5** is a production table of other 3<sup>rd</sup> Bone Spring Sand wells in the area.

10. **Exhibit B-6** is a well plan schematic and proposed survey for the Rattlesnake 13/18 B3MN State Com 1H.

11. In my opinion, the laydown orientation of the proposed well is the preferred orientation for horizontal well development in this area and is appropriate to develop the subject acreage efficiently and effectively.

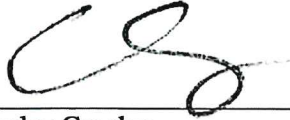
12. Based on my geologic study of the area, the Bone Spring formation underlying the subject area and Unit is suitable for development by horizontal wells and the tracts comprising the Unit will contribute more or less equally to the production of the well.

13. In my opinion, the granting of Mewbourne's application will serve the interests of conservation, the protection of correlative rights, and the prevention of waste.

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

15. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 11 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.

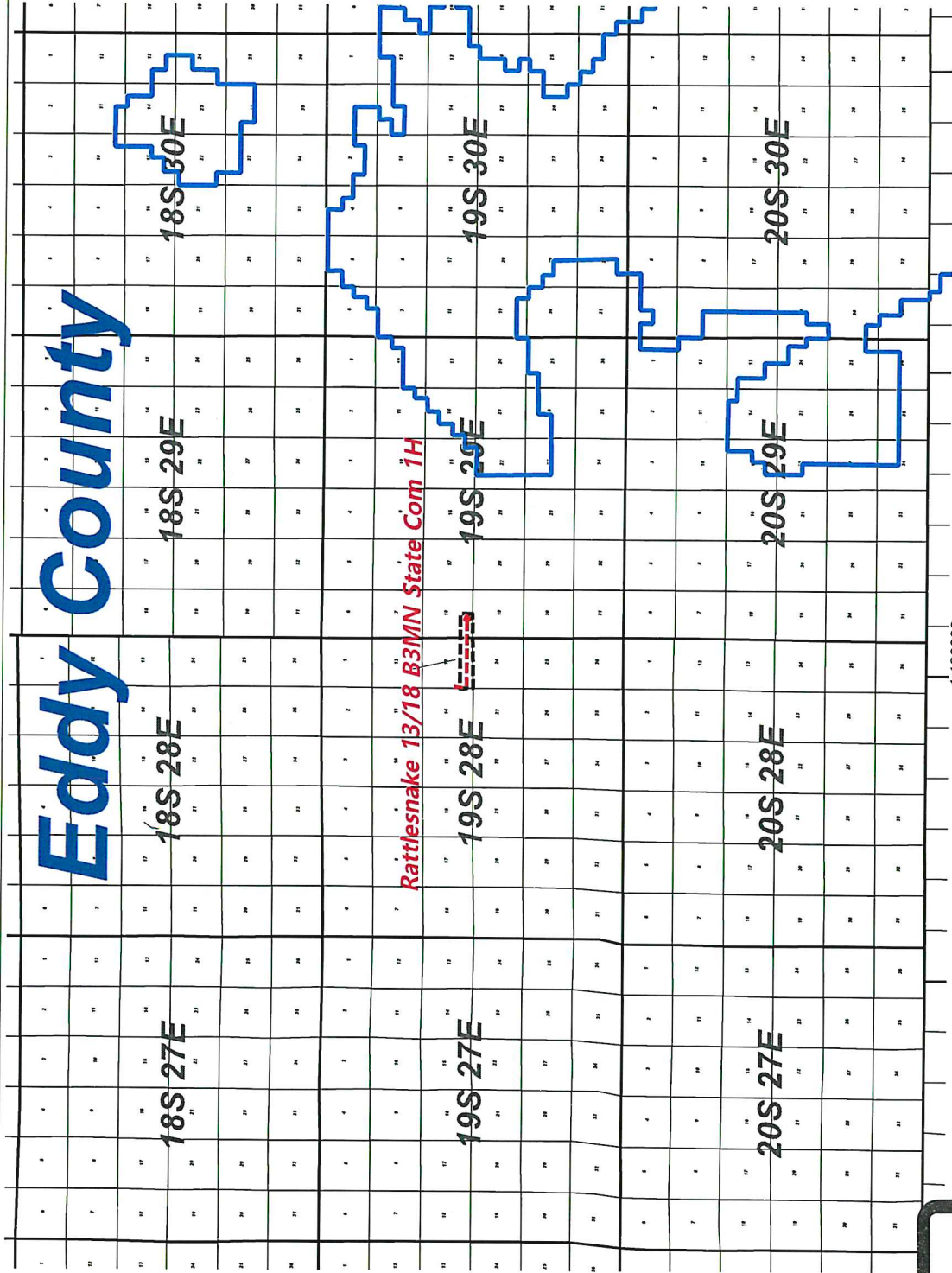


Charles Crosby



Date

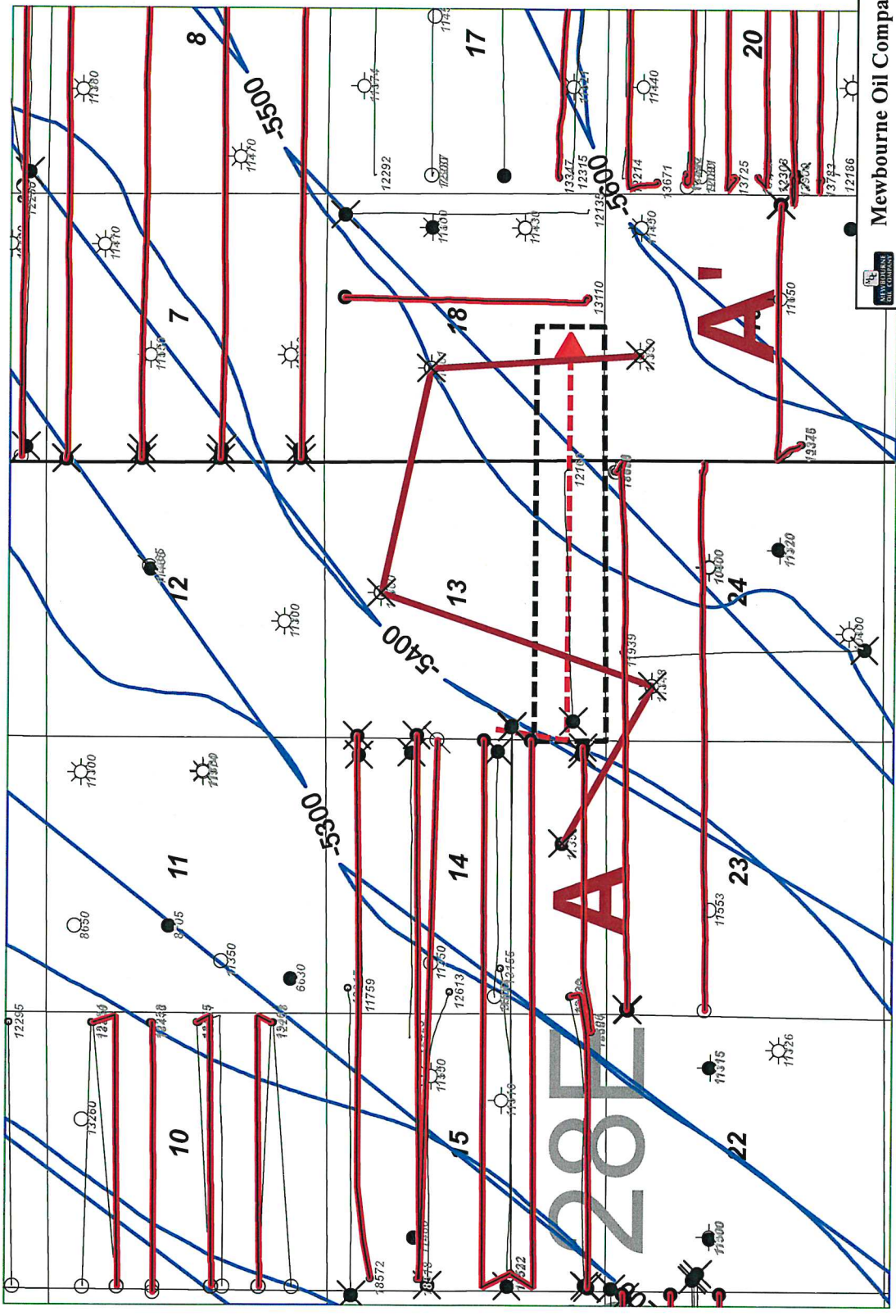
# Eddy County



Mewbourne Oil Company	
Regional Locator Map	
Rattlesnake 13/18 B31MN State Com 1H	
5/21/21	New Mexico
Eddy County	Geol. C. Osby



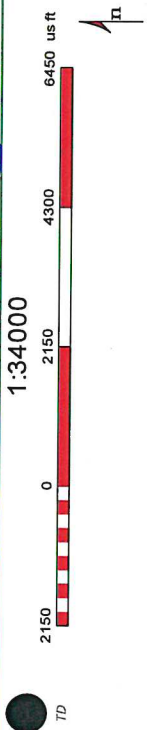
MEWBOURNE OIL COMPANY  
Case No. 21932



**Mewbourne Oil Company**

Rattlesnake 13/18 B3MN State Com 1H  
Horizontal Activity Map  
Top Wolfcamp Structure (C.I. 100')

52521	Eddy County	New Mexico
Wells TD - 500' Filtered out		Geol. C. Crosby

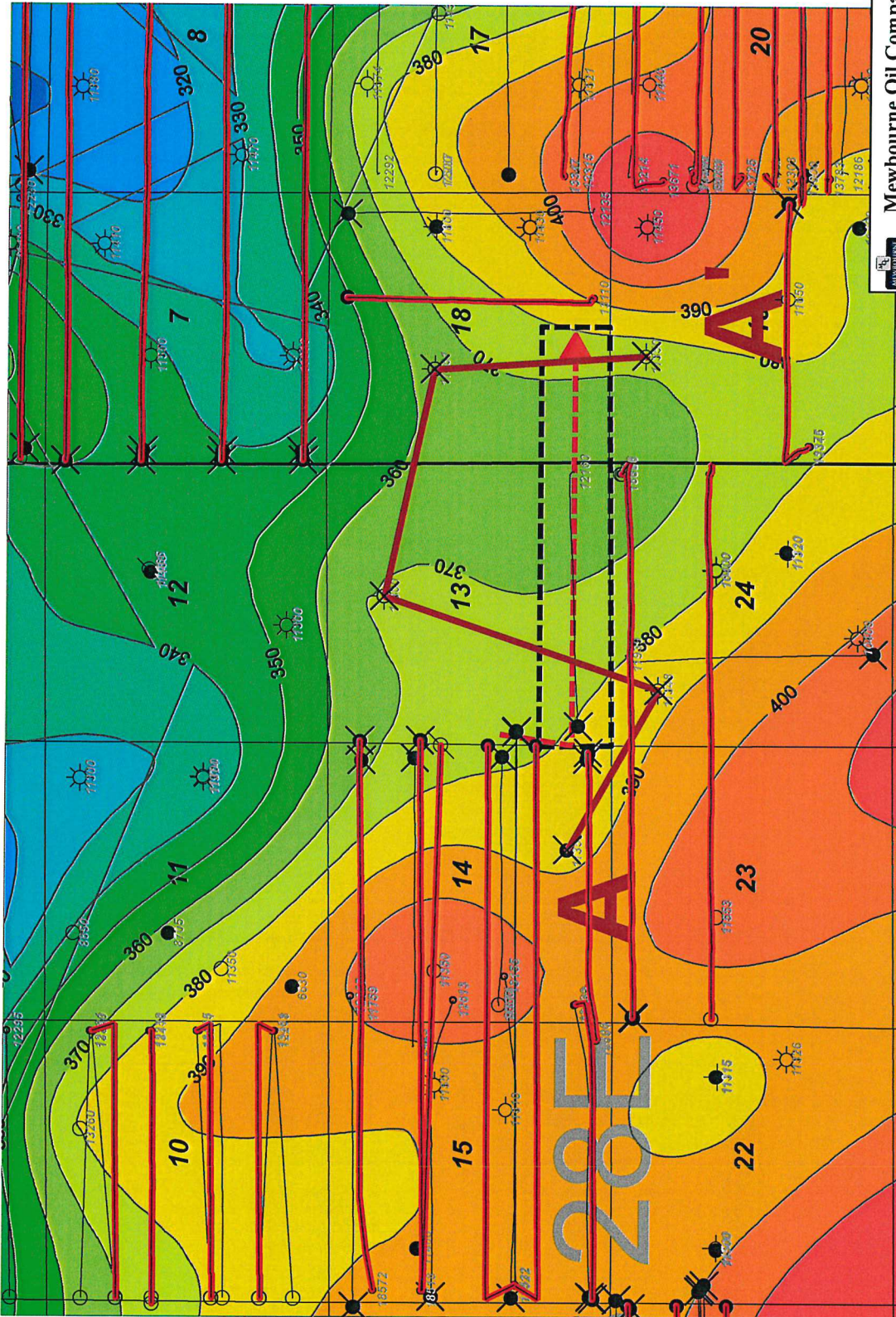


Horizontal Activity Color Code

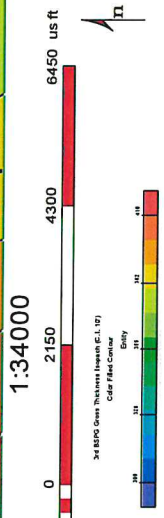
● TD

■ 3<sup>rd</sup> BSPG 5D

**MEWBOURNE OIL COMPANY**  
Case No. 21932



<b>Mewbourne Oil Company</b>	
Rattlesnake 13/18 B3MN State Com 1H Horizontal Activity Map 3 <sup>rd</sup> BSPG SD Gross Thickness (C.I.)	
5/25/21	Well ID - 1000' filtered out
	New Mexico
	Goal: C. Crosby



Horizontal Activity Color Code  
█ 3<sup>rd</sup> BSPG SD

**MEWBOURNE OIL COMPANY**  
 Case No. 21932  
 Exhibit B-3



A' E

3001122000000  
ATLANTIC REEFIELD  
3411 E  
NEWBURNE OIL CO  
SOUTHWING OIL CO  
EAST BURLINGTON FT  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

3001122000000  
MIDCON OIL FIELD  
FLUID TO STATE COM  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

3001122000000  
SOUTHWING OIL CO  
EAST BURLINGTON FT  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

3001122000000  
SOUTHWING OIL CO  
EAST BURLINGTON FT  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

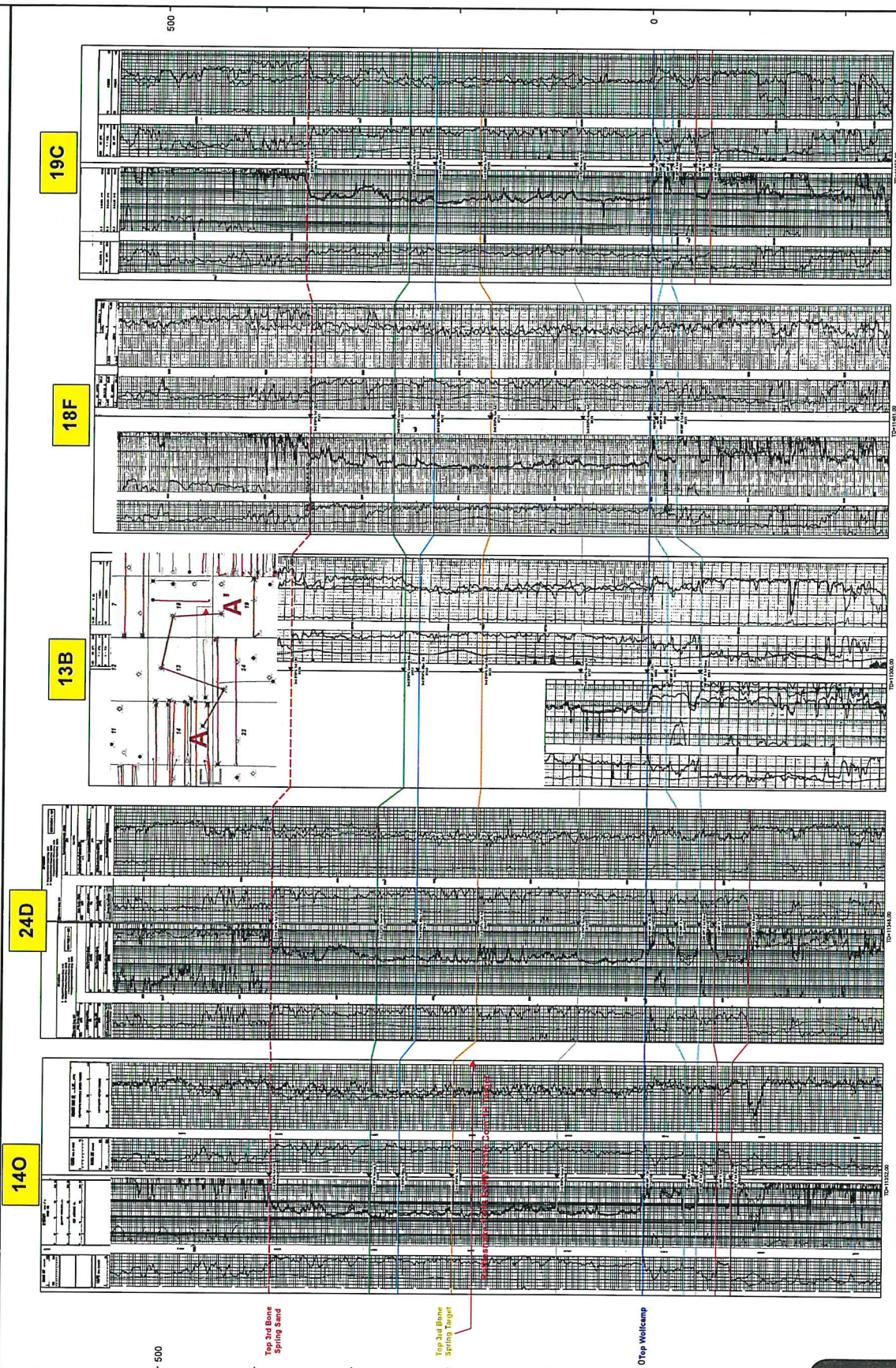
3001122000000  
NEWBURNE OIL CO  
SOUTHWING OIL CO  
EAST BURLINGTON FT  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

3001122000000  
NEWBURNE OIL CO  
SOUTHWING OIL CO  
EAST BURLINGTON FT  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

3001122000000  
ATLANTIC REEFIELD  
3411 E  
NEWBURNE OIL CO  
SOUTHWING OIL CO  
EAST BURLINGTON FT  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

3001122000000  
ATLANTIC REEFIELD  
3411 E  
NEWBURNE OIL CO  
SOUTHWING OIL CO  
EAST BURLINGTON FT  
1501 PM 5319 TEL  
Typ 18 5 - Range 11 E - Sec 13

A W



Rattlesnake 13/18 BSMN State Com  
1H Cross Section Exhibit (A-A')

MEWBOURNE OIL  
COMPANY  
Case No. 21932

Exhibit B 1

Well Name	Operator	API	Location	Completion Date	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	NS/EW	Production Zone
Phantom 18 State 2H	COG	30015382580000	18O/19S/29E	6/21/2011	69.5	0.2	134.7	NS	3rd Bone Spring Sand
Longboard PWU 20 1H	Devon	30015400250100	20E/19S/29E	12/3/2012	202.2	1.3	282.8	EW	3rd Bone Spring Sand
Emerald PWU 20 9H	Devon	30015429460000	20D/19S/29E	10/26/2015	115.6	0.2	75.4	EW	3rd Bone Spring Sand
Emerald PWU 20 10H	Devon	30015433320000	20E/19S/29E	2/13/2016	139.6	0.7	275.7	EW	3rd Bone Spring Sand
Emerald PWU 20 11H	Devon	30015433710000	20M/19S29E	9/17/2015	93.8	0.7	164.5	EW	3rd Bone Spring Sand
Emerald PWU 20 62H	Devon	30015433720000	20M/19S/29E	1/24/2017	191.8	0.7	339.7	EW	3rd Bone Spring Sand
Emerald PWU 20 66H	Devon	30015433820000	20L/19S/29E	2/21/2016	154	0.5	286.3	EW	3rd Bone Spring Sand
Palmillo 14/15 State 301H	Apache	30015440400000	15P/19S/29E	9/8/2017	223.5	0.7	532.8	EW	3rd Bone Spring Sand
Emerald PWU 20/22 12H	Devon	30015440970100	20M/19S/29E	4/15/2018	357.4	1.3	427.5	EW	3rd Bone Spring Sand
Turkey Track 8/7 State 33H	OXY	30015441590000	9L/19S/29E	8/23/2019	268.2	0.7	252.1	EW	3rd Bone Spring Sand
Turkey Track 8/7 State 34H	OXY	30015441600000	9L/19S/29E	8/23/2019	353.2	0.8	340.1	EW	3rd Bone Spring Sand
Turkey Track 8/7 State 31H	OXY	30015442660000	9D/19S/29E	8/23/2019	367.7	1.1	288.8	EW	3rd Bone Spring Sand
Turkey Track 8/7 State 32H	OXY	30015442670000	9D/19S/29E	9/1/2019	396.1	1.1	278.9	EW	3rd Bone Spring Sand
Parkway 17 State 6H	Cimarex	30015442750000	17M/19S/29E	2/17/2018	160	0.3	153.2	EW	3rd Bone Spring Sand
Marbob 19 State Com 133H	Matador	30015446880000	19L/19S/29E	5/29/2018	90.5	0.5	235.9	EW	3rd Bone Spring Sand
Palmillo 14/15 State 302H	Apache	30015453410000	15L/19S/28E	11/4/2019	125.4	0.3	319.4	EW	3rd Bone Spring Sand
Palmillo 14-15 State 304H	Apache	30015453420000	15E/19S/29E	8/20/2019		TA		EW	3rd Bone Spring Sand
Palmillo 14/15 State Com 305H	Apache	30015453430000	15E/19S/28E	11/4/2019	224.6	0.8	363.1	EW	3rd Bone Spring Sand
Palmillo 14/15 State 303H	Apache	30015453800000	15L/19S/28E	11/4/2019	207.2	0.7	360.9	EW	3rd Bone Spring Sand
Palmillo 14/15 State 307H	Apache	30015453810000	14M/19S/28E	10/24/2019	128.9	0.5	311.1	EW	3rd Bone Spring Sand
Palmillo 14/15 State Com 206H	Apache	30015453820000	15D/19S/28E	11/4/2019	231.6	0.8	292.4	EW	3rd Bone Spring Sand
Palmillo 10 State Com 335H	Apache	30015457950000	10A/19S/28E		Pending			EW	3rd Bone Spring Sand
Palmillo 10 State Com 332H	Apache	30015458070000	10P/19S/28E		Pending			EW	3rd Bone Spring Sand
Palmillo 10 State 333H	Apache	30015458080000	10I/19S/28E		Pending			EW	3rd Bone Spring Sand
Palmillo 10 State 334H	Apache	30015458090000	10H/19S/28E		Pending			EW	3rd Bone Spring Sand
Parkchester 24/23 B3AD State Com 2H	Mewbourne	30015460620000	24A/19S/28E	10/19/2019	253	0.7	613.9	EW	3rd Bone Spring Sand

MEWBOURNE OIL  
COMPANY  
Case No. 21932



Company: Mewbourne Oil Company  
 Well: Rattlesnake 13-18 B3MN State Com 1H  
 County: Eddy County, New Mexico (NAD 83)  
 Rig: Patterson 588  
 Wellbore: Wellbore #1  
 Design: Design #1  
 Date: 14:48, April 21 2021



Azimuths to Grid North  
 True North: -0.11°  
 Magnetic North: 7.06°  
 Magnetic Field  
 Strength: 47885.4nT  
 Dip Angle: 60.37°  
 Date: 5/1/2020  
 Model: HDGM2021

To convert a Magnetic Direction to a Grid Direction, Add 7.061°  
 To convert a Magnetic Direction to a True Direction, Add 7.167° East  
 To convert a True Direction to a Grid Direction, Subtract 0.105°

WELL DETAILS: Rattlesnake 13-18 B3MN State Com 1H

+N-S	+E-W	GL @ 3388.00	Well @ 3416.00usft (Patterson 588)	Longitude
0.00	0.00	Northing 603649.90	Easting 601385.00	32° 39' 33.583 N 104° 8' 17.575 W

DESIGN TARGET DETAILS

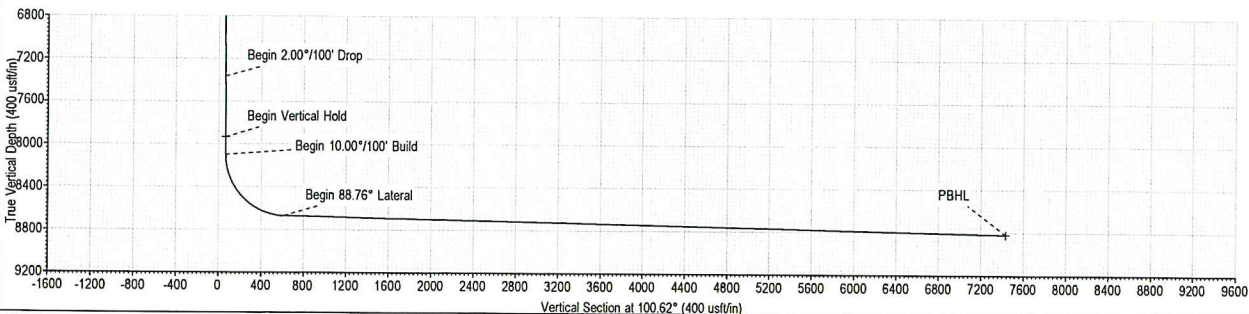
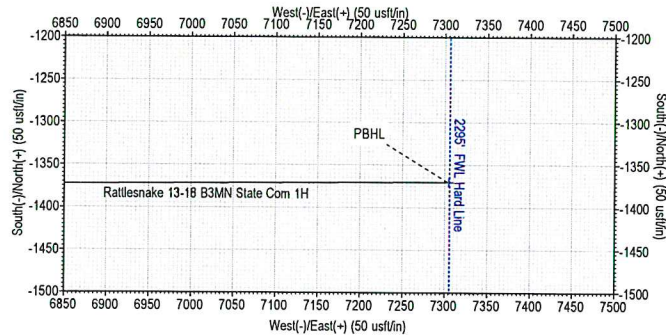
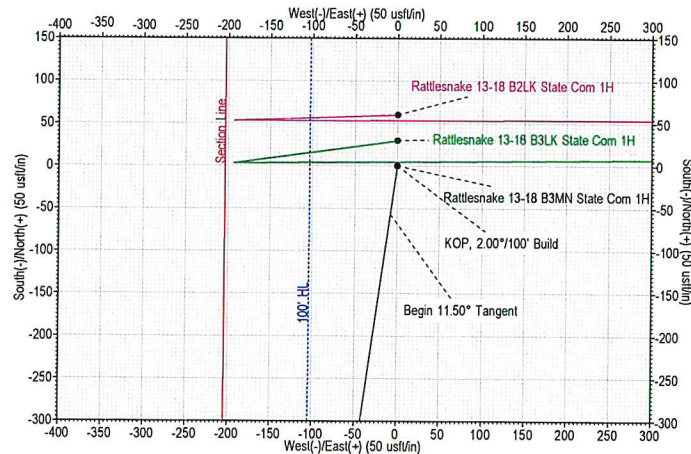
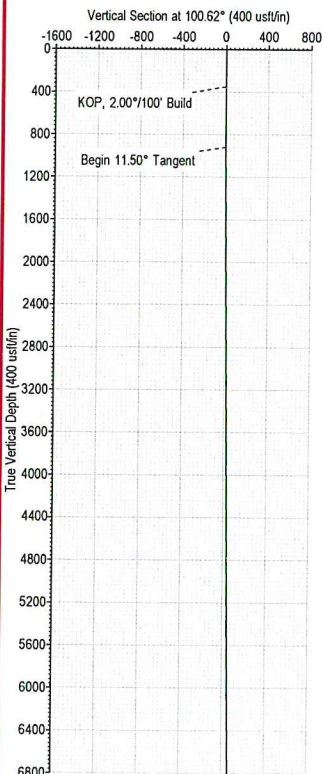
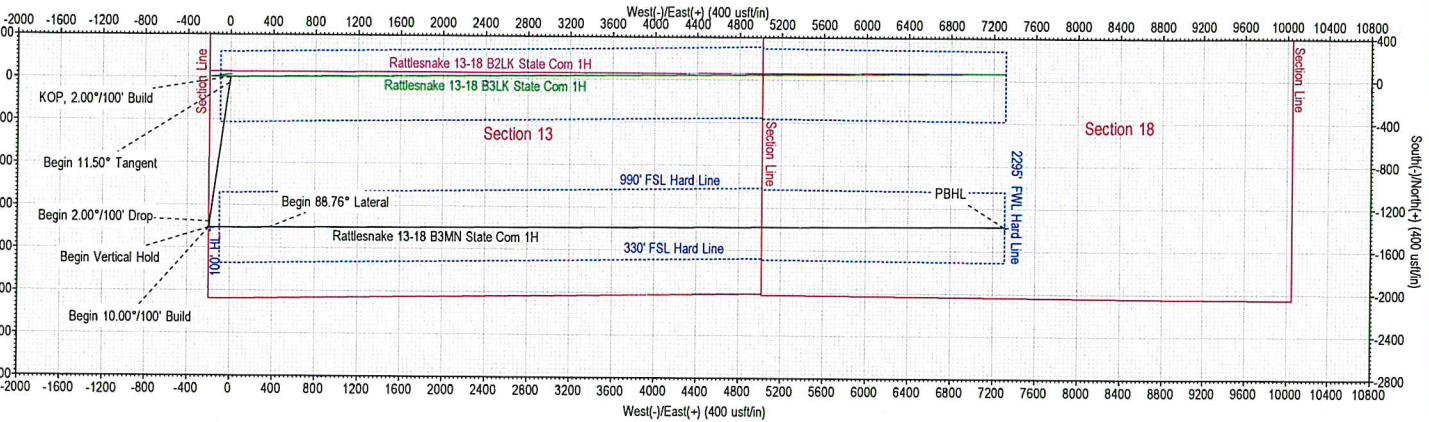
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
VP	7936.00	-1412.08	-198.11	602237.82	601186.89	32° 39' 19.613 N	104° 8' 19.923 W
PBHL	8821.00	-1370.10	7303.50	602279.80	608688.50	32° 39' 19.884 N	104° 6' 52.173 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.000	0.00	KOP, 2.00°/100' Build
924.96	11.50	187.99	924.11	-56.95	-7.99	2.00	187.985	2.65	Begin 11.50° Tangent
7500.74	11.50	187.99	7364.89	-1355.14	-190.12	0.00	0.000	63.00	
8075.70	0.00	0.00	7936.00	-1412.08	-198.11	2.00	180.000	65.65	Begin Vertical Hold
8237.87	0.00	0.00	8098.17	-1412.08	-198.11	0.00	0.000	65.65	Begin 10.00°/100' Build
9125.49	88.76	89.68	8671.00	-1408.95	362.46	10.00	89.679	616.03	Begin 88.76° Lateral
16068.25	88.76	89.68	8821.00	-1370.10	7303.50	0.00	0.000	7430.90	PBHL

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	16068.25	Design #1 (Wellbore #1) MWD+HRGM	



MEWBOURNE OIL COMPANY  
 Case No. 21932  
 Exhibit B-6



# **Mewbourne Oil Company**

**Eddy County, New Mexico (NAD 83)**

**Rattlesnake 13-18 State Com**

**Rattlesnake 13-18 B3MN State Com 1H**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**21 April, 2021**





**MS Directional**  
Planning Report



<b>Database:</b>	5000.1 Conroe DB	<b>Local Co-ordinate Reference:</b>	Well Rattlesnake 13-18 B3MN State Com 1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Project:</b>	Eddy County, New Mexico (NAD 83)	<b>MD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Site:</b>	Rattlesnake 13-18 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Rattlesnake 13-18 B3MN State Com 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	Rattlesnake 13-18 State Com				
<b>Site Position:</b>		<b>Northing:</b>	603,709.90 usft	<b>Latitude:</b>	32° 39' 34.176 N
<b>From:</b>	Map	<b>Easting:</b>	601,385.20 usft	<b>Longitude:</b>	104° 8' 17.571 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	Rattlesnake 13-18 B3MN State Com 1H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	603,649.90 usft	<b>Latitude:</b>	32° 39' 33.583 N
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	601,385.00 usft	<b>Longitude:</b>	104° 8' 17.575 W
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,388.00 usft	
<b>Grid Convergence:</b>	0.105 °					

<b>Wellbore</b>	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021	5/1/2020	7.167	60.367	47,885.40

<b>Design</b>	Design #1
---------------	-----------

<b>Audit Notes:</b>									
<b>Version:</b>	<b>Phase:</b> PLAN <b>Tie On Depth:</b> 0.00								
<b>Vertical Section:</b>	<table border="1"> <thead> <tr> <th>Depth From (TVD) (usft)</th> <th>+N/-S (usft)</th> <th>+E/-W (usft)</th> <th>Direction (°)</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>100.62</td> </tr> </tbody> </table>	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	0.00	0.00	0.00	100.62
Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)						
0.00	0.00	0.00	100.62						

<b>Plan Survey Tool Program</b>	<b>Date</b> 4/21/2021			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,068.25	Design #1 (Wellbore #1)	MWD+HRGM OWSG MWD + HRGM

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	0.000	
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.000	
924.96	11.50	187.99	921.11	-56.95	-7.99	2.00	2.00	0.00	187.986	
7,500.74	11.50	187.99	7,364.89	-1,355.14	-190.12	0.00	0.00	0.00	0.000	
8,075.70	0.00	0.00	7,936.00	-1,412.08	-198.11	2.00	-2.00	0.00	180.000	VP - Rattlesnake 13
8,237.87	0.00	0.00	8,098.17	-1,412.08	-198.11	0.00	0.00	0.00	0.000	
9,125.49	88.76	89.68	8,671.00	-1,408.95	362.46	10.00	10.00	0.00	89.679	
16,068.25	88.76	89.68	8,821.00	-1,370.10	7,303.50	0.00	0.00	0.00	0.000	PBHL - Rattlesnake



**MS Directional**  
Planning Report



<b>Database:</b>	5000.1 Conroe DB	<b>Local Co-ordinate Reference:</b>	Well Rattlesnake 13-18 B3MN State Com 1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Project:</b>	Eddy County, New Mexico (NAD 83)	<b>MD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Site:</b>	Rattlesnake 13-18 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Rattlesnake 13-18 B3MN State Com 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>13 3/8"</b>									
300.00	0.00	0.00	300.00	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	0.00
<b>KOP, 2.00°/100' Build</b>									
400.00	1.00	187.99	400.00	-0.43	-0.06	0.02	2.00	2.00	0.00
500.00	3.00	187.99	499.93	-3.89	-0.55	0.18	2.00	2.00	0.00
600.00	5.00	187.99	599.68	-10.80	-1.51	0.50	2.00	2.00	0.00
700.00	7.00	187.99	699.13	-21.15	-2.97	0.98	2.00	2.00	0.00
800.00	9.00	187.99	798.15	-34.93	-4.90	1.62	2.00	2.00	0.00
900.00	11.00	187.99	896.63	-52.12	-7.31	2.42	2.00	2.00	0.00
924.96	11.50	187.99	921.11	-56.95	-7.99	2.65	2.00	2.00	0.00
925.04	11.50	187.99	921.19	-56.96	-7.99	2.65	0.00	0.00	0.00
<b>Begin 11.50° Tangent</b>									
1,000.00	11.50	187.99	994.64	-71.76	-10.07	3.34	0.00	0.00	0.00
1,100.00	11.50	187.99	1,092.63	-91.50	-12.84	4.25	0.00	0.00	0.00
1,200.00	11.50	187.99	1,190.63	-111.24	-15.61	5.17	0.00	0.00	0.00
1,300.00	11.50	187.99	1,288.62	-130.99	-18.38	6.09	0.00	0.00	0.00
1,400.00	11.50	187.99	1,386.61	-150.73	-21.15	7.01	0.00	0.00	0.00
1,500.00	11.50	187.99	1,484.61	-170.47	-23.92	7.93	0.00	0.00	0.00
1,600.00	11.50	187.99	1,582.60	-190.21	-26.69	8.84	0.00	0.00	0.00
1,700.00	11.50	187.99	1,680.59	-209.95	-29.46	9.76	0.00	0.00	0.00
1,800.00	11.50	187.99	1,778.58	-229.70	-32.22	10.68	0.00	0.00	0.00
1,900.00	11.50	187.99	1,876.58	-249.44	-34.99	11.60	0.00	0.00	0.00
2,000.00	11.50	187.99	1,974.57	-269.18	-37.76	12.51	0.00	0.00	0.00
2,100.00	11.50	187.99	2,072.56	-288.92	-40.53	13.43	0.00	0.00	0.00
2,200.00	11.50	187.99	2,170.55	-308.66	-43.30	14.35	0.00	0.00	0.00
2,300.00	11.50	187.99	2,268.55	-328.41	-46.07	15.27	0.00	0.00	0.00
2,400.00	11.50	187.99	2,366.54	-348.15	-48.84	16.19	0.00	0.00	0.00
2,500.00	11.50	187.99	2,464.53	-367.89	-51.61	17.10	0.00	0.00	0.00
2,600.00	11.50	187.99	2,562.53	-387.63	-54.38	18.02	0.00	0.00	0.00
2,700.00	11.50	187.99	2,660.52	-407.37	-57.15	18.94	0.00	0.00	0.00
2,800.00	11.50	187.99	2,758.51	-427.12	-59.92	19.86	0.00	0.00	0.00
2,900.00	11.50	187.99	2,856.50	-446.86	-62.69	20.77	0.00	0.00	0.00
3,000.00	11.50	187.99	2,954.50	-466.60	-65.46	21.69	0.00	0.00	0.00
3,100.00	11.50	187.99	3,052.49	-486.34	-68.23	22.61	0.00	0.00	0.00
3,200.00	11.50	187.99	3,150.48	-506.08	-71.00	23.53	0.00	0.00	0.00
3,300.00	11.50	187.99	3,248.48	-525.83	-73.77	24.45	0.00	0.00	0.00
3,400.00	11.50	187.99	3,346.47	-545.57	-76.54	25.36	0.00	0.00	0.00
3,500.00	11.50	187.99	3,444.46	-565.31	-79.31	26.28	0.00	0.00	0.00
3,600.00	11.50	187.99	3,542.45	-585.05	-82.08	27.20	0.00	0.00	0.00
3,700.00	11.50	187.99	3,640.45	-604.79	-84.85	28.12	0.00	0.00	0.00
3,800.00	11.50	187.99	3,738.44	-624.54	-87.62	29.04	0.00	0.00	0.00
3,900.00	11.50	187.99	3,836.43	-644.28	-90.39	29.95	0.00	0.00	0.00
4,000.00	11.50	187.99	3,934.42	-664.02	-93.16	30.87	0.00	0.00	0.00
4,100.00	11.50	187.99	4,032.42	-683.76	-95.93	31.79	0.00	0.00	0.00
4,200.00	11.50	187.99	4,130.41	-703.50	-98.70	32.71	0.00	0.00	0.00
4,300.00	11.50	187.99	4,228.40	-723.25	-101.47	33.62	0.00	0.00	0.00
4,400.00	11.50	187.99	4,326.40	-742.99	-104.24	34.54	0.00	0.00	0.00
4,500.00	11.50	187.99	4,424.39	-762.73	-107.01	35.46	0.00	0.00	0.00



**MS Directional**  
Planning Report



<b>Database:</b>	5000.1 Conroe DB	<b>Local Co-ordinate Reference:</b>	Well Rattlesnake 13-18 B3MN State Com 1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Project:</b>	Eddy County, New Mexico (NAD 83)	<b>MD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Site:</b>	Rattlesnake 13-18 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Rattlesnake 13-18 B3MN State Com 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	11.50	187.99	4,522.38	-782.47	-109.78	36.38	0.00	0.00	0.00
4,700.00	11.50	187.99	4,620.37	-802.21	-112.55	37.30	0.00	0.00	0.00
4,800.00	11.50	187.99	4,718.37	-821.96	-115.31	38.21	0.00	0.00	0.00
4,900.00	11.50	187.99	4,816.36	-841.70	-118.08	39.13	0.00	0.00	0.00
5,000.00	11.50	187.99	4,914.35	-861.44	-120.85	40.05	0.00	0.00	0.00
5,100.00	11.50	187.99	5,012.35	-881.18	-123.62	40.97	0.00	0.00	0.00
5,200.00	11.50	187.99	5,110.34	-900.93	-126.39	41.88	0.00	0.00	0.00
5,300.00	11.50	187.99	5,208.33	-920.67	-129.16	42.80	0.00	0.00	0.00
5,400.00	11.50	187.99	5,306.32	-940.41	-131.93	43.72	0.00	0.00	0.00
5,500.00	11.50	187.99	5,404.32	-960.15	-134.70	44.64	0.00	0.00	0.00
5,600.00	11.50	187.99	5,502.31	-979.89	-137.47	45.56	0.00	0.00	0.00
5,700.00	11.50	187.99	5,600.30	-999.64	-140.24	46.47	0.00	0.00	0.00
5,800.00	11.50	187.99	5,698.29	-1,019.38	-143.01	47.39	0.00	0.00	0.00
5,900.00	11.50	187.99	5,796.29	-1,039.12	-145.78	48.31	0.00	0.00	0.00
6,000.00	11.50	187.99	5,894.28	-1,058.86	-148.55	49.23	0.00	0.00	0.00
6,100.00	11.50	187.99	5,992.27	-1,078.60	-151.32	50.15	0.00	0.00	0.00
6,200.00	11.50	187.99	6,090.27	-1,098.35	-154.09	51.06	0.00	0.00	0.00
6,300.00	11.50	187.99	6,188.26	-1,118.09	-156.86	51.98	0.00	0.00	0.00
6,400.00	11.50	187.99	6,286.25	-1,137.83	-159.63	52.90	0.00	0.00	0.00
6,500.00	11.50	187.99	6,384.24	-1,157.57	-162.40	53.82	0.00	0.00	0.00
6,600.00	11.50	187.99	6,482.24	-1,177.31	-165.17	54.73	0.00	0.00	0.00
6,700.00	11.50	187.99	6,580.23	-1,197.06	-167.94	55.65	0.00	0.00	0.00
6,800.00	11.50	187.99	6,678.22	-1,216.80	-170.71	56.57	0.00	0.00	0.00
6,900.00	11.50	187.99	6,776.21	-1,236.54	-173.48	57.49	0.00	0.00	0.00
7,000.00	11.50	187.99	6,874.21	-1,256.28	-176.25	58.41	0.00	0.00	0.00
7,100.00	11.50	187.99	6,972.20	-1,276.02	-179.02	59.32	0.00	0.00	0.00
7,200.00	11.50	187.99	7,070.19	-1,295.77	-181.79	60.24	0.00	0.00	0.00
7,300.00	11.50	187.99	7,168.19	-1,315.51	-184.56	61.16	0.00	0.00	0.00
7,400.00	11.50	187.99	7,266.18	-1,335.25	-187.33	62.08	0.00	0.00	0.00
7,499.67	11.50	187.99	7,363.85	-1,354.93	-190.09	62.99	0.00	0.00	0.00
<b>Begin 2.00°/100' Drop</b>									
7,500.74	11.50	187.99	7,364.89	-1,355.14	-190.12	63.00	0.00	0.00	0.00
7,600.00	9.51	187.99	7,462.49	-1,373.06	-192.63	63.84	2.00	-2.00	0.00
7,700.00	7.51	187.99	7,561.38	-1,387.72	-194.69	64.52	2.00	-2.00	0.00
7,800.00	5.51	187.99	7,660.73	-1,398.96	-196.26	65.04	2.00	-2.00	0.00
7,900.00	3.51	187.99	7,760.41	-1,406.75	-197.36	65.40	2.00	-2.00	0.00
8,000.00	1.51	187.99	7,860.31	-1,411.09	-197.97	65.60	2.00	-2.00	0.00
8,074.72	0.02	187.99	7,935.02	-1,412.08	-198.11	65.65	2.00	-2.00	0.00
<b>Begin Vertical Hold</b>									
8,075.70	0.00	0.00	7,936.00	-1,412.08	-198.11	65.65	2.00	-2.00	0.00
8,100.00	0.00	0.00	7,960.30	-1,412.08	-198.11	65.65	0.00	0.00	0.00
8,200.00	0.00	0.00	8,060.30	-1,412.08	-198.11	65.65	0.00	0.00	0.00
8,237.87	0.00	0.00	8,098.17	-1,412.08	-198.11	65.65	0.00	0.00	0.00
<b>Begin 10.00°/100' Build</b>									
8,250.00	1.21	89.68	8,110.30	-1,412.08	-197.98	65.78	10.00	10.00	0.00
8,300.00	6.21	89.68	8,160.18	-1,412.06	-194.74	68.95	10.00	10.00	0.00
8,350.00	11.21	89.68	8,209.59	-1,412.02	-187.17	76.39	10.00	10.00	0.00
8,400.00	16.21	89.68	8,258.15	-1,411.96	-175.32	88.02	10.00	10.00	0.00
8,450.00	21.21	89.68	8,305.49	-1,411.87	-159.28	103.77	10.00	10.00	0.00
8,500.00	26.21	89.68	8,351.26	-1,411.75	-139.18	123.50	10.00	10.00	0.00
8,550.00	31.21	89.68	8,395.09	-1,411.62	-115.17	147.08	10.00	10.00	0.00
8,600.00	36.21	89.68	8,436.67	-1,411.46	-87.43	174.32	10.00	10.00	0.00
8,650.00	41.21	89.68	8,475.67	-1,411.29	-56.17	205.01	10.00	10.00	0.00



**MS Directional**  
Planning Report



<b>Database:</b>	5000.1 Conroe DB	<b>Local Co-ordinate Reference:</b>	Well Rattlesnake 13-18 B3MN State Com 1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Project:</b>	Eddy County, New Mexico (NAD 83)	<b>MD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Site:</b>	Rattlesnake 13-18 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Rattlesnake 13-18 B3MN State Com 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.00	46.21	89.68	8,511.80	-1,411.09	-21.62	238.92	10.00	10.00	0.00
8,750.00	51.21	89.68	8,544.78	-1,410.88	15.93	275.80	10.00	10.00	0.00
8,800.00	56.21	89.68	8,574.37	-1,410.66	56.22	315.35	10.00	10.00	0.00
8,850.00	61.21	89.68	8,600.32	-1,410.42	98.94	357.29	10.00	10.00	0.00
8,900.00	66.21	89.68	8,622.46	-1,410.17	143.75	401.29	10.00	10.00	0.00
8,950.00	71.21	89.68	8,640.61	-1,409.91	190.33	447.02	10.00	10.00	0.00
9,000.00	76.21	89.68	8,654.62	-1,409.64	238.30	494.12	10.00	10.00	0.00
9,050.00	81.21	89.68	8,664.41	-1,409.37	287.32	542.25	10.00	10.00	0.00
9,100.00	86.21	89.68	8,669.88	-1,409.09	337.00	591.03	10.00	10.00	0.00
9,125.49	88.76	89.68	8,671.00	-1,408.95	362.47	616.03	10.00	10.00	0.00
<b>Begin 88.76° Lateral</b>									
9,200.00	88.76	89.68	8,672.61	-1,408.53	436.96	689.17	0.00	0.00	0.00
9,300.00	88.76	89.68	8,674.77	-1,407.97	536.93	787.33	0.00	0.00	0.00
9,400.00	88.76	89.68	8,676.93	-1,407.41	636.91	885.48	0.00	0.00	0.00
9,500.00	88.76	89.68	8,679.09	-1,406.85	736.88	983.64	0.00	0.00	0.00
9,600.00	88.76	89.68	8,681.25	-1,406.29	836.86	1,081.80	0.00	0.00	0.00
9,700.00	88.76	89.68	8,683.41	-1,405.73	936.83	1,179.96	0.00	0.00	0.00
9,800.00	88.76	89.68	8,685.57	-1,405.17	1,036.81	1,278.11	0.00	0.00	0.00
9,900.00	88.76	89.68	8,687.73	-1,404.61	1,136.78	1,376.27	0.00	0.00	0.00
10,000.00	88.76	89.68	8,689.89	-1,404.05	1,236.76	1,474.43	0.00	0.00	0.00
10,100.00	88.76	89.68	8,692.05	-1,403.49	1,336.73	1,572.59	0.00	0.00	0.00
10,200.00	88.76	89.68	8,694.21	-1,402.93	1,436.71	1,670.75	0.00	0.00	0.00
10,300.00	88.76	89.68	8,696.37	-1,402.37	1,536.68	1,768.90	0.00	0.00	0.00
10,400.00	88.76	89.68	8,698.53	-1,401.81	1,636.66	1,867.06	0.00	0.00	0.00
10,500.00	88.76	89.68	8,700.70	-1,401.25	1,736.63	1,965.22	0.00	0.00	0.00
10,600.00	88.76	89.68	8,702.86	-1,400.70	1,836.61	2,063.38	0.00	0.00	0.00
10,700.00	88.76	89.68	8,705.02	-1,400.14	1,936.58	2,161.54	0.00	0.00	0.00
10,800.00	88.76	89.68	8,707.18	-1,399.58	2,036.56	2,259.69	0.00	0.00	0.00
10,900.00	88.76	89.68	8,709.34	-1,399.02	2,136.53	2,357.85	0.00	0.00	0.00
11,000.00	88.76	89.68	8,711.50	-1,398.46	2,236.51	2,456.01	0.00	0.00	0.00
11,100.00	88.76	89.68	8,713.66	-1,397.90	2,336.48	2,554.17	0.00	0.00	0.00
11,200.00	88.76	89.68	8,715.82	-1,397.34	2,436.46	2,652.33	0.00	0.00	0.00
11,300.00	88.76	89.68	8,717.98	-1,396.78	2,536.43	2,750.48	0.00	0.00	0.00
11,400.00	88.76	89.68	8,720.14	-1,396.22	2,636.41	2,848.64	0.00	0.00	0.00
11,500.00	88.76	89.68	8,722.30	-1,395.66	2,736.38	2,946.80	0.00	0.00	0.00
11,600.00	88.76	89.68	8,724.46	-1,395.10	2,836.36	3,044.96	0.00	0.00	0.00
11,700.00	88.76	89.68	8,726.62	-1,394.54	2,936.33	3,143.11	0.00	0.00	0.00
11,800.00	88.76	89.68	8,728.78	-1,393.98	3,036.31	3,241.27	0.00	0.00	0.00
11,900.00	88.76	89.68	8,730.94	-1,393.42	3,136.28	3,339.43	0.00	0.00	0.00
12,000.00	88.76	89.68	8,733.10	-1,392.86	3,236.26	3,437.59	0.00	0.00	0.00
12,100.00	88.76	89.68	8,735.26	-1,392.30	3,336.23	3,535.75	0.00	0.00	0.00
12,200.00	88.76	89.68	8,737.42	-1,391.74	3,436.21	3,633.90	0.00	0.00	0.00
12,300.00	88.76	89.68	8,739.59	-1,391.18	3,536.18	3,732.06	0.00	0.00	0.00
12,400.00	88.76	89.68	8,741.75	-1,390.62	3,636.16	3,830.22	0.00	0.00	0.00
12,500.00	88.76	89.68	8,743.91	-1,390.06	3,736.13	3,928.38	0.00	0.00	0.00
12,600.00	88.76	89.68	8,746.07	-1,389.51	3,836.11	4,026.54	0.00	0.00	0.00
12,700.00	88.76	89.68	8,748.23	-1,388.95	3,936.08	4,124.69	0.00	0.00	0.00
12,800.00	88.76	89.68	8,750.39	-1,388.39	4,036.06	4,222.85	0.00	0.00	0.00
12,900.00	88.76	89.68	8,752.55	-1,387.83	4,136.03	4,321.01	0.00	0.00	0.00
13,000.00	88.76	89.68	8,754.71	-1,387.27	4,236.01	4,419.17	0.00	0.00	0.00
13,100.00	88.76	89.68	8,756.87	-1,386.71	4,335.99	4,517.33	0.00	0.00	0.00
13,200.00	88.76	89.68	8,759.03	-1,386.15	4,435.96	4,615.48	0.00	0.00	0.00
13,300.00	88.76	89.68	8,761.19	-1,385.59	4,535.94	4,713.64	0.00	0.00	0.00
13,400.00	88.76	89.68	8,763.35	-1,385.03	4,635.91	4,811.80	0.00	0.00	0.00





**MS Directional**  
Planning Report



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<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Project:</b>	Eddy County, New Mexico (NAD 83)	<b>MD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Site:</b>	Rattlesnake 13-18 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Rattlesnake 13-18 B3MN State Com 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.00	88.76	89.68	8,765.51	-1,384.47	4,735.89	4,909.96	0.00	0.00	0.00
13,600.00	88.76	89.68	8,767.67	-1,383.91	4,835.86	5,008.11	0.00	0.00	0.00
13,700.00	88.76	89.68	8,769.83	-1,383.35	4,935.84	5,106.27	0.00	0.00	0.00
13,800.00	88.76	89.68	8,771.99	-1,382.79	5,035.81	5,204.43	0.00	0.00	0.00
13,900.00	88.76	89.68	8,774.15	-1,382.23	5,135.79	5,302.59	0.00	0.00	0.00
14,000.00	88.76	89.68	8,776.31	-1,381.67	5,235.76	5,400.75	0.00	0.00	0.00
14,100.00	88.76	89.68	8,778.48	-1,381.11	5,335.74	5,498.90	0.00	0.00	0.00
14,200.00	88.76	89.68	8,780.64	-1,380.55	5,435.71	5,597.06	0.00	0.00	0.00
14,300.00	88.76	89.68	8,782.80	-1,379.99	5,535.69	5,695.22	0.00	0.00	0.00
14,400.00	88.76	89.68	8,784.96	-1,379.43	5,635.66	5,793.38	0.00	0.00	0.00
14,500.00	88.76	89.68	8,787.12	-1,378.87	5,735.64	5,891.54	0.00	0.00	0.00
14,600.00	88.76	89.68	8,789.28	-1,378.32	5,835.61	5,989.69	0.00	0.00	0.00
14,700.00	88.76	89.68	8,791.44	-1,377.76	5,935.59	6,087.85	0.00	0.00	0.00
14,800.00	88.76	89.68	8,793.60	-1,377.20	6,035.56	6,186.01	0.00	0.00	0.00
14,900.00	88.76	89.68	8,795.76	-1,376.64	6,135.54	6,284.17	0.00	0.00	0.00
15,000.00	88.76	89.68	8,797.92	-1,376.08	6,235.51	6,382.33	0.00	0.00	0.00
15,100.00	88.76	89.68	8,800.08	-1,375.52	6,335.49	6,480.48	0.00	0.00	0.00
15,200.00	88.76	89.68	8,802.24	-1,374.96	6,435.46	6,578.64	0.00	0.00	0.00
15,300.00	88.76	89.68	8,804.40	-1,374.40	6,535.44	6,676.80	0.00	0.00	0.00
15,400.00	88.76	89.68	8,806.56	-1,373.84	6,635.41	6,774.96	0.00	0.00	0.00
15,500.00	88.76	89.68	8,808.72	-1,373.28	6,735.39	6,873.11	0.00	0.00	0.00
15,600.00	88.76	89.68	8,810.88	-1,372.72	6,835.36	6,971.27	0.00	0.00	0.00
15,700.00	88.76	89.68	8,813.04	-1,372.16	6,935.34	7,069.43	0.00	0.00	0.00
15,800.00	88.76	89.68	8,815.20	-1,371.60	7,035.31	7,167.59	0.00	0.00	0.00
15,900.00	88.76	89.68	8,817.36	-1,371.04	7,135.29	7,265.75	0.00	0.00	0.00
16,000.00	88.76	89.68	8,819.53	-1,370.48	7,235.26	7,363.90	0.00	0.00	0.00
16,068.25	88.76	89.68	8,821.00	-1,370.10	7,303.50	7,430.90	0.00	0.00	0.00
<b>PBHL</b>									

**Design Targets**

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Rattlesnake 13-1 - hit/miss target - Shape - Point	0.00	0.00	7,936.00	-1,412.08	-198.11	602,237.82	601,186.90	32° 39' 19.613 N	104° 8' 19.923 W
PBHL - Rattlesnake 1: - plan hits target center - Point	0.00	0.00	8,821.00	-1,370.10	7,303.50	602,279.80	608,688.50	32° 39' 19.884 N	104° 6' 52.173 W

**Casing Points**

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
250.00	250.00	13 3/8"	13-3/8	17-1/2



**MS Directional**  
Planning Report



<b>Database:</b>	5000.1 Conroe DB	<b>Local Co-ordinate Reference:</b>	Well Rattlesnake 13-18 B3MN State Com 1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Project:</b>	Eddy County, New Mexico (NAD 83)	<b>MD Reference:</b>	Well @ 3416.00usft (Patterson 588)
<b>Site:</b>	Rattlesnake 13-18 State Com	<b>North Reference:</b>	Grid
<b>Well:</b>	Rattlesnake 13-18 B3MN State Com 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
350.00	350.00	0.00	0.00	KOP, 2.00°/100' Build
925.04	921.19	-56.96	-7.99	Begin 11.50° Tangent
7,499.67	7,363.85	-1,354.93	-190.09	Begin 2.00°/100' Drop
8,074.72	7,935.02	-1,412.08	-198.11	Begin Vertical Hold
8,237.87	8,098.17	-1,412.08	-198.11	Begin 10.00°/100' Build
9,125.49	8,671.00	-1,408.95	362.47	Begin 88.76° Lateral
16,068.25	8,821.00	-1,370.10	7,303.50	PBHL