

District I

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

District II

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

District III

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

District IV

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

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

Form C-101
August 1, 2011

Permit 283203

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

1. Operator Name and Address MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241		2. OGRID Number 14744
		3. API Number 30-015-47184
4. Property Code 328293	5. Property Name PALE RIDER 8 5 W1MD STATE COM	6. Well No. 001H

7. Surface Location

UL - Lot N	Section 8	Township 25S	Range 28E	Lot Idn N	Feet From 300	N/S Line S	Feet From 1460	E/W Line W	County Eddy
---------------	--------------	-----------------	--------------	--------------	------------------	---------------	-------------------	---------------	----------------

8. Proposed Bottom Hole Location

UL - Lot D	Section 5	Township 25S	Range 28E	Lot Idn 4	Feet From 330	N/S Line N	Feet From 990	E/W Line W	County Eddy
---------------	--------------	-----------------	--------------	--------------	------------------	---------------	------------------	---------------	----------------

9. Pool Information

98220	98220
-------	-------

Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3031
16. Multiple N	17. Proposed Depth 19508	18. Formation Wolfcamp	19. Contractor	20. Spud Date 7/8/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	450	375	0
Int1	12.25	9.625	36	2355	530	0
Prod	8.75	7	26	9809	860	2155
Liner1	6.125	4.5	13.5	19508	430	8914

Casing/Cement Program: Additional Comments

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

22. Proposed Blowout Prevention Program

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

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Electronically filed by Monty Whetstone	Approved By: Raymond Podany
Title: Vice President Operations	Title: Geologist
Email Address: prodmgr@mewbourne.com	Approved Date: 6/17/2020 Expiration Date: 6/17/2022
Date: 6/16/2020 Phone: 903-561-2900	Conditions of Approval Attached

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

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

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

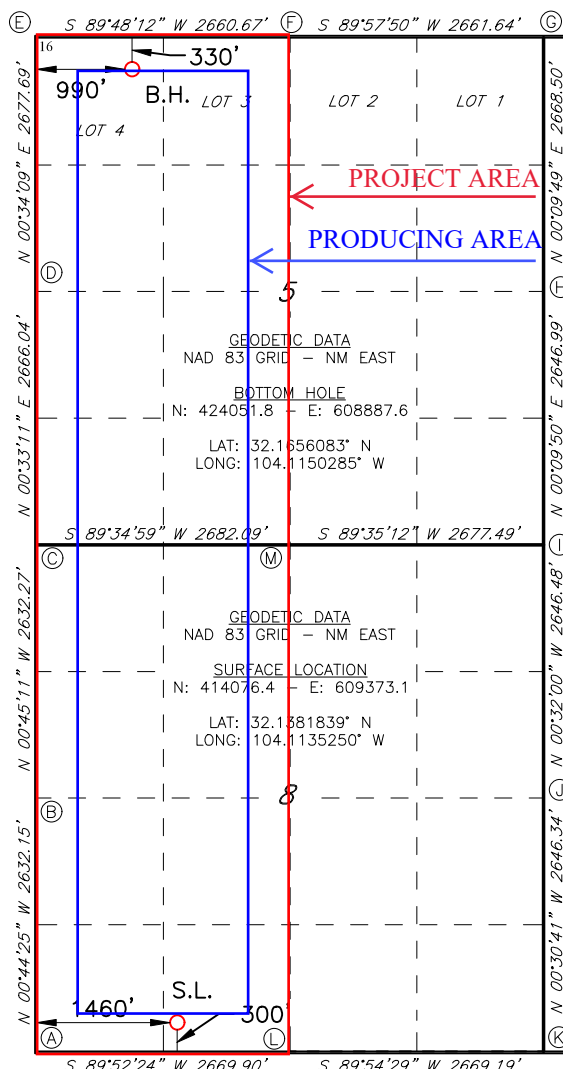
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP GAS POOL					
⁴ Property Code		⁵ Property Name PALE RIDER 8/5 W1MD STATE COM						⁶ Well Number 1H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 3031'	
¹⁰ Surface Location									
UL or lot no. N	Section 8	Township 25S	Range 28E	Lot Idn	Feet from the 300	North/South line SOUTH	Feet From the 1460	East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. 4	Section 5	Township 25S	Range 28E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 990	East/West line WEST	County EDDY
¹² Dedicated Acres 640.81		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.

Bradley C. Birney

6-8-20

Signature _____

BRADLEY BISHOP

Printed Name _____

BBISHOP@MEWBOURNE.COM

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

06-03-2020

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

Job No: LS20060275

District I

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

District II

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

District III

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

District IV

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

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

GAS CAPTURE PLAN

Date: 6/17/2020

☒ Original

Operator & OGRID No.: [14744] MEWBOURNE OIL CO

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
PALE RIDER 8 5 W1MD STATE COM #001H	30-015-47184	N-8-25S-28E	0300S 1460W	10	None	ONLINE AFTER FRAC

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 3400' of pipeline to connect the facility to High Pressure gathering system. MEWBOURNE OIL CO provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MEWBOURNE OIL CO and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 25, Twn. 18S, Rng. 25E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is MEWBOURNE OIL CO's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

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

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

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

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

Form APD Comments

Permit 283203

PERMIT COMMENTS

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241		API Number: 30-015-47184
		Well: PALE RIDER 8 5 W1MD STATE COM #001H

Created By	Comment	Comment Date
------------	---------	--------------

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

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

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

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

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

Form APD Conditions

Permit 283203

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:		API Number:
MEWBOURNE OIL CO [14744]		30-015-47184
P.O. Box 5270		Well:
Hobbs, NM 88241		PALE RIDER 8 5 W1MD STATE COM #001H
OCD Reviewer	Condition	
jagarcia	Will require a directional survey with the C-104	
jagarcia	Cement is required to circulate on both surface and intermediate1 strings of casing	

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Pale Rider 8/5 W1MD St Com #1H

Sec 8, T25S, R28E

SHL: 300' FSL & 1460' FWL, Sec 8

BHL: 330' FNL & 990' FWL, Sec 5

Plan: Design #1

Standard Planning Report

10 June, 2020

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pale Rider 8/5 W1MD St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3059.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3059.0usft (Original Well Elev)
Site:	Pale Rider 8/5 W1MD St Com #1H	North Reference:	Grid
Well:	Sec 8, T25S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 5		
Design:	Design #1		

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

Site	Pale Rider 8/5 W1MD St Com #1H			
Site Position:		Northing:	414,076.00 usft	Latitude: 32.1381828
From:	Map	Easting:	609,373.00 usft	Longitude: -104.1135255
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.12 °

Well	Sec 8, T25S, R28E			
Well Position	+N/-S	0.0 usft	Northing:	414,076.00 usft
	+E/-W	0.0 usft	Easting:	609,373.00 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,059.0 usft
			Ground Level:	3,031.0 usft

Wellbore	BHL: 330' FNL & 990' FWL, Sec 5				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.39	59.93	48,129

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	357.22

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,430.0	0.00	0.00	2,430.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,682.9	5.06	238.02	2,682.6	-5.9	-9.5	2.00	2.00	0.00	238.02	
8,661.1	5.06	238.02	8,637.5	-285.1	-456.5	0.00	0.00	0.00	0.00	
8,914.0	0.00	0.00	8,890.0	-291.0	-466.0	2.00	-2.00	0.00	180.00	KOP: 10' FSL & 990' I
9,809.0	89.50	359.89	9,463.0	277.0	-467.1	10.00	10.00	0.00	-0.11	
19,508.4	89.50	359.89	9,548.0	9,976.0	-485.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 990'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pale Rider 8/5 W1MD St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3059.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3059.0usft (Original Well Elev)
Site:	Pale Rider 8/5 W1MD St Com #1H	North Reference:	Grid
Well:	Sec 8, T25S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 5		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 300' FSL & 1460' FWL (8)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,430.0	0.00	0.00	2,430.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	1.40	238.02	2,500.0	-0.5	-0.7	-0.4	2.00	2.00	0.00
2,600.0	3.40	238.02	2,599.9	-2.7	-4.3	-2.5	2.00	2.00	0.00
2,682.9	5.06	238.02	2,682.6	-5.9	-9.5	-5.4	2.00	2.00	0.00
2,700.0	5.06	238.02	2,699.6	-6.7	-10.7	-6.2	0.00	0.00	0.00
2,800.0	5.06	238.02	2,799.2	-11.4	-18.2	-10.5	0.00	0.00	0.00
2,900.0	5.06	238.02	2,898.8	-16.0	-25.7	-14.8	0.00	0.00	0.00
3,000.0	5.06	238.02	2,998.4	-20.7	-33.2	-19.1	0.00	0.00	0.00
3,100.0	5.06	238.02	3,098.0	-25.4	-40.7	-23.4	0.00	0.00	0.00
3,200.0	5.06	238.02	3,197.7	-30.1	-48.1	-27.7	0.00	0.00	0.00
3,300.0	5.06	238.02	3,297.3	-34.7	-55.6	-32.0	0.00	0.00	0.00
3,400.0	5.06	238.02	3,396.9	-39.4	-63.1	-36.3	0.00	0.00	0.00
3,500.0	5.06	238.02	3,496.5	-44.1	-70.6	-40.6	0.00	0.00	0.00
3,600.0	5.06	238.02	3,596.1	-48.7	-78.0	-44.9	0.00	0.00	0.00
3,700.0	5.06	238.02	3,695.7	-53.4	-85.5	-49.2	0.00	0.00	0.00
3,800.0	5.06	238.02	3,795.3	-58.1	-93.0	-53.5	0.00	0.00	0.00
3,900.0	5.06	238.02	3,894.9	-62.7	-100.5	-57.8	0.00	0.00	0.00
4,000.0	5.06	238.02	3,994.5	-67.4	-108.0	-62.1	0.00	0.00	0.00
4,100.0	5.06	238.02	4,094.2	-72.1	-115.4	-66.4	0.00	0.00	0.00
4,200.0	5.06	238.02	4,193.8	-76.8	-122.9	-70.7	0.00	0.00	0.00
4,300.0	5.06	238.02	4,293.4	-81.4	-130.4	-75.0	0.00	0.00	0.00
4,400.0	5.06	238.02	4,393.0	-86.1	-137.9	-79.3	0.00	0.00	0.00
4,500.0	5.06	238.02	4,492.6	-90.8	-145.4	-83.6	0.00	0.00	0.00
4,600.0	5.06	238.02	4,592.2	-95.4	-152.8	-87.9	0.00	0.00	0.00
4,700.0	5.06	238.02	4,691.8	-100.1	-160.3	-92.2	0.00	0.00	0.00
4,800.0	5.06	238.02	4,791.4	-104.8	-167.8	-96.5	0.00	0.00	0.00
4,900.0	5.06	238.02	4,891.0	-109.4	-175.3	-100.8	0.00	0.00	0.00
5,000.0	5.06	238.02	4,990.6	-114.1	-182.7	-105.1	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pale Rider 8/5 W1MD St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3059.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3059.0usft (Original Well Elev)
Site:	Pale Rider 8/5 W1MD St Com #1H	North Reference:	Grid
Well:	Sec 8, T25S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 5		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	5.06	238.02	5,090.3	-118.8	-190.2	-109.4	0.00	0.00	0.00
5,200.0	5.06	238.02	5,189.9	-123.5	-197.7	-113.7	0.00	0.00	0.00
5,300.0	5.06	238.02	5,289.5	-128.1	-205.2	-118.0	0.00	0.00	0.00
5,400.0	5.06	238.02	5,389.1	-132.8	-212.7	-122.3	0.00	0.00	0.00
5,500.0	5.06	238.02	5,488.7	-137.5	-220.1	-126.6	0.00	0.00	0.00
5,600.0	5.06	238.02	5,588.3	-142.1	-227.6	-130.9	0.00	0.00	0.00
5,700.0	5.06	238.02	5,687.9	-146.8	-235.1	-135.2	0.00	0.00	0.00
5,800.0	5.06	238.02	5,787.5	-151.5	-242.6	-139.5	0.00	0.00	0.00
5,900.0	5.06	238.02	5,887.1	-156.1	-250.1	-143.8	0.00	0.00	0.00
6,000.0	5.06	238.02	5,986.8	-160.8	-257.5	-148.1	0.00	0.00	0.00
6,100.0	5.06	238.02	6,086.4	-165.5	-265.0	-152.4	0.00	0.00	0.00
6,200.0	5.06	238.02	6,186.0	-170.2	-272.5	-156.7	0.00	0.00	0.00
6,300.0	5.06	238.02	6,285.6	-174.8	-280.0	-161.0	0.00	0.00	0.00
6,400.0	5.06	238.02	6,385.2	-179.5	-287.4	-165.3	0.00	0.00	0.00
6,500.0	5.06	238.02	6,484.8	-184.2	-294.9	-169.6	0.00	0.00	0.00
6,600.0	5.06	238.02	6,584.4	-188.8	-302.4	-173.9	0.00	0.00	0.00
6,700.0	5.06	238.02	6,684.0	-193.5	-309.9	-178.2	0.00	0.00	0.00
6,800.0	5.06	238.02	6,783.6	-198.2	-317.4	-182.5	0.00	0.00	0.00
6,900.0	5.06	238.02	6,883.2	-202.8	-324.8	-186.8	0.00	0.00	0.00
7,000.0	5.06	238.02	6,982.9	-207.5	-332.3	-191.1	0.00	0.00	0.00
7,100.0	5.06	238.02	7,082.5	-212.2	-339.8	-195.4	0.00	0.00	0.00
7,200.0	5.06	238.02	7,182.1	-216.9	-347.3	-199.7	0.00	0.00	0.00
7,300.0	5.06	238.02	7,281.7	-221.5	-354.8	-204.0	0.00	0.00	0.00
7,400.0	5.06	238.02	7,381.3	-226.2	-362.2	-208.3	0.00	0.00	0.00
7,500.0	5.06	238.02	7,480.9	-230.9	-369.7	-212.6	0.00	0.00	0.00
7,600.0	5.06	238.02	7,580.5	-235.5	-377.2	-216.9	0.00	0.00	0.00
7,700.0	5.06	238.02	7,680.1	-240.2	-384.7	-221.2	0.00	0.00	0.00
7,800.0	5.06	238.02	7,779.7	-244.9	-392.1	-225.5	0.00	0.00	0.00
7,900.0	5.06	238.02	7,879.4	-249.5	-399.6	-229.8	0.00	0.00	0.00
8,000.0	5.06	238.02	7,979.0	-254.2	-407.1	-234.2	0.00	0.00	0.00
8,100.0	5.06	238.02	8,078.6	-258.9	-414.6	-238.5	0.00	0.00	0.00
8,200.0	5.06	238.02	8,178.2	-263.6	-422.1	-242.8	0.00	0.00	0.00
8,300.0	5.06	238.02	8,277.8	-268.2	-429.5	-247.1	0.00	0.00	0.00
8,400.0	5.06	238.02	8,377.4	-272.9	-437.0	-251.4	0.00	0.00	0.00
8,500.0	5.06	238.02	8,477.0	-277.6	-444.5	-255.7	0.00	0.00	0.00
8,600.0	5.06	238.02	8,576.6	-282.2	-452.0	-260.0	0.00	0.00	0.00
8,661.1	5.06	238.02	8,637.5	-285.1	-456.5	-262.6	0.00	0.00	0.00
8,700.0	4.28	238.02	8,676.3	-286.8	-459.2	-264.1	2.00	-2.00	0.00
8,800.0	2.28	238.02	8,776.1	-289.8	-464.1	-266.9	2.00	-2.00	0.00
8,900.0	0.28	238.02	8,876.1	-291.0	-466.0	-268.0	2.00	-2.00	0.00
8,914.0	0.00	0.00	8,890.0	-291.0	-466.0	-268.0	2.00	-2.00	0.00
KOP: 10' FSL & 990' FWL (8)									
9,000.0	8.60	359.89	8,975.7	-284.6	-466.0	-261.6	10.00	10.00	0.00
9,100.0	18.60	359.89	9,072.8	-261.1	-466.1	-238.1	10.00	10.00	0.00
9,200.0	28.60	359.89	9,164.3	-221.1	-466.1	-198.2	10.00	10.00	0.00
9,300.0	38.60	359.89	9,247.5	-165.8	-466.2	-143.0	10.00	10.00	0.00
9,400.0	48.60	359.89	9,319.8	-96.9	-466.4	-74.2	10.00	10.00	0.00
9,500.0	58.60	359.89	9,379.1	-16.6	-466.5	6.1	10.00	10.00	0.00
9,553.1	63.91	359.89	9,404.6	30.0	-466.6	52.6	10.00	10.00	0.00
FTP: 330' FSL & 990' FWL (8)									
9,600.0	68.60	359.89	9,423.5	72.9	-466.7	95.5	10.00	10.00	0.00
9,700.0	78.60	359.89	9,451.7	168.7	-466.9	191.2	10.00	10.00	0.00
9,800.0	88.60	359.89	9,462.9	268.0	-467.0	290.3	10.00	10.00	0.00
9,809.0	89.50	359.89	9,463.0	277.0	-467.1	299.4	9.96	9.96	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pale Rider 8/5 W1MD St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3059.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3059.0usft (Original Well Elev)
Site:	Pale Rider 8/5 W1MD St Com #1H	North Reference:	Grid
Well:	Sec 8, T25S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 5		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
LP: 577' FSL & 990' FWL (8)									
9,900.0	89.50	359.89	9,463.8	368.0	-467.2	390.2	0.00	0.00	0.00
10,000.0	89.50	359.89	9,464.7	468.0	-467.4	490.1	0.00	0.00	0.00
10,100.0	89.50	359.89	9,465.6	568.0	-467.6	590.0	0.00	0.00	0.00
10,200.0	89.50	359.89	9,466.4	667.9	-467.8	689.9	0.00	0.00	0.00
10,300.0	89.50	359.89	9,467.3	767.9	-468.0	789.8	0.00	0.00	0.00
10,400.0	89.50	359.89	9,468.2	867.9	-468.1	889.7	0.00	0.00	0.00
10,500.0	89.50	359.89	9,469.1	967.9	-468.3	989.5	0.00	0.00	0.00
10,600.0	89.50	359.89	9,469.9	1,067.9	-468.5	1,089.4	0.00	0.00	0.00
10,700.0	89.50	359.89	9,470.8	1,167.9	-468.7	1,189.3	0.00	0.00	0.00
10,800.0	89.50	359.89	9,471.7	1,267.9	-468.9	1,289.2	0.00	0.00	0.00
10,900.0	89.50	359.89	9,472.6	1,367.9	-469.1	1,389.1	0.00	0.00	0.00
11,000.0	89.50	359.89	9,473.4	1,467.9	-469.3	1,489.0	0.00	0.00	0.00
11,100.0	89.50	359.89	9,474.3	1,567.9	-469.4	1,588.9	0.00	0.00	0.00
11,200.0	89.50	359.89	9,475.2	1,667.9	-469.6	1,688.7	0.00	0.00	0.00
11,300.0	89.50	359.89	9,476.1	1,767.9	-469.8	1,788.6	0.00	0.00	0.00
11,400.0	89.50	359.89	9,476.9	1,867.9	-470.0	1,888.5	0.00	0.00	0.00
11,500.0	89.50	359.89	9,477.8	1,967.9	-470.2	1,988.4	0.00	0.00	0.00
11,600.0	89.50	359.89	9,478.7	2,067.9	-470.4	2,088.3	0.00	0.00	0.00
11,700.0	89.50	359.89	9,479.6	2,167.9	-470.6	2,188.2	0.00	0.00	0.00
11,800.0	89.50	359.89	9,480.4	2,267.9	-470.7	2,288.1	0.00	0.00	0.00
11,900.0	89.50	359.89	9,481.3	2,367.9	-470.9	2,388.0	0.00	0.00	0.00
12,000.0	89.50	359.89	9,482.2	2,467.9	-471.1	2,487.8	0.00	0.00	0.00
12,100.0	89.50	359.89	9,483.1	2,567.9	-471.3	2,587.7	0.00	0.00	0.00
12,200.0	89.50	359.89	9,484.0	2,667.9	-471.5	2,687.6	0.00	0.00	0.00
12,300.0	89.50	359.89	9,484.8	2,767.9	-471.7	2,787.5	0.00	0.00	0.00
12,400.0	89.50	359.89	9,485.7	2,867.9	-471.8	2,887.4	0.00	0.00	0.00
12,500.0	89.50	359.89	9,486.6	2,967.9	-472.0	2,987.3	0.00	0.00	0.00
12,600.0	89.50	359.89	9,487.5	3,067.9	-472.2	3,087.2	0.00	0.00	0.00
12,700.0	89.50	359.89	9,488.3	3,167.8	-472.4	3,187.1	0.00	0.00	0.00
12,800.0	89.50	359.89	9,489.2	3,267.8	-472.6	3,286.9	0.00	0.00	0.00
12,900.0	89.50	359.89	9,490.1	3,367.8	-472.8	3,386.8	0.00	0.00	0.00
13,000.0	89.50	359.89	9,491.0	3,467.8	-473.0	3,486.7	0.00	0.00	0.00
13,100.0	89.50	359.89	9,491.8	3,567.8	-473.1	3,586.6	0.00	0.00	0.00
13,200.0	89.50	359.89	9,492.7	3,667.8	-473.3	3,686.5	0.00	0.00	0.00
13,300.0	89.50	359.89	9,493.6	3,767.8	-473.5	3,786.4	0.00	0.00	0.00
13,400.0	89.50	359.89	9,494.5	3,867.8	-473.7	3,886.3	0.00	0.00	0.00
13,500.0	89.50	359.89	9,495.3	3,967.8	-473.9	3,986.1	0.00	0.00	0.00
13,600.0	89.50	359.89	9,496.2	4,067.8	-474.1	4,086.0	0.00	0.00	0.00
13,700.0	89.50	359.89	9,497.1	4,167.8	-474.3	4,185.9	0.00	0.00	0.00
13,800.0	89.50	359.89	9,498.0	4,267.8	-474.4	4,285.8	0.00	0.00	0.00
13,900.0	89.50	359.89	9,498.9	4,367.8	-474.6	4,385.7	0.00	0.00	0.00
14,000.0	89.50	359.89	9,499.7	4,467.8	-474.8	4,485.6	0.00	0.00	0.00
14,100.0	89.50	359.89	9,500.6	4,567.8	-475.0	4,585.5	0.00	0.00	0.00
14,200.0	89.50	359.89	9,501.5	4,667.8	-475.2	4,685.4	0.00	0.00	0.00
14,300.0	89.50	359.89	9,502.4	4,767.8	-475.4	4,785.2	0.00	0.00	0.00
14,400.0	89.50	359.89	9,503.2	4,867.8	-475.5	4,885.1	0.00	0.00	0.00
14,500.0	89.50	359.89	9,504.1	4,967.8	-475.7	4,985.0	0.00	0.00	0.00
14,600.0	89.50	359.89	9,505.0	5,067.8	-475.9	5,084.9	0.00	0.00	0.00
14,700.0	89.50	359.89	9,505.9	5,167.8	-476.1	5,184.8	0.00	0.00	0.00
14,800.0	89.50	359.89	9,506.7	5,267.8	-476.3	5,284.7	0.00	0.00	0.00
14,900.0	89.50	359.89	9,507.6	5,367.8	-476.5	5,384.6	0.00	0.00	0.00
15,000.0	89.50	359.89	9,508.5	5,467.8	-476.7	5,484.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pale Rider 8/5 W1MD St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3059.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3059.0usft (Original Well Elev)
Site:	Pale Rider 8/5 W1MD St Com #1H	North Reference:	Grid
Well:	Sec 8, T25S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 5		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,100.0	89.50	359.89	9,509.4	5,567.8	-476.8	5,584.3	0.00	0.00	0.00	
15,200.0	89.50	359.89	9,510.2	5,667.7	-477.0	5,684.2	0.00	0.00	0.00	
15,300.0	89.50	359.89	9,511.1	5,767.7	-477.2	5,784.1	0.00	0.00	0.00	
15,400.0	89.50	359.89	9,512.0	5,867.7	-477.4	5,884.0	0.00	0.00	0.00	
15,500.0	89.50	359.89	9,512.9	5,967.7	-477.6	5,983.9	0.00	0.00	0.00	
15,600.0	89.50	359.89	9,513.7	6,067.7	-477.8	6,083.8	0.00	0.00	0.00	
15,700.0	89.50	359.89	9,514.6	6,167.7	-478.0	6,183.7	0.00	0.00	0.00	
15,800.0	89.50	359.89	9,515.5	6,267.7	-478.1	6,283.5	0.00	0.00	0.00	
15,900.0	89.50	359.89	9,516.4	6,367.7	-478.3	6,383.4	0.00	0.00	0.00	
16,000.0	89.50	359.89	9,517.3	6,467.7	-478.5	6,483.3	0.00	0.00	0.00	
16,100.0	89.50	359.89	9,518.1	6,567.7	-478.7	6,583.2	0.00	0.00	0.00	
16,200.0	89.50	359.89	9,519.0	6,667.7	-478.9	6,683.1	0.00	0.00	0.00	
16,300.0	89.50	359.89	9,519.9	6,767.7	-479.1	6,783.0	0.00	0.00	0.00	
16,400.0	89.50	359.89	9,520.8	6,867.7	-479.2	6,882.9	0.00	0.00	0.00	
16,500.0	89.50	359.89	9,521.6	6,967.7	-479.4	6,982.8	0.00	0.00	0.00	
16,600.0	89.50	359.89	9,522.5	7,067.7	-479.6	7,082.6	0.00	0.00	0.00	
16,700.0	89.50	359.89	9,523.4	7,167.7	-479.8	7,182.5	0.00	0.00	0.00	
16,800.0	89.50	359.89	9,524.3	7,267.7	-480.0	7,282.4	0.00	0.00	0.00	
16,900.0	89.50	359.89	9,525.1	7,367.7	-480.2	7,382.3	0.00	0.00	0.00	
17,000.0	89.50	359.89	9,526.0	7,467.7	-480.4	7,482.2	0.00	0.00	0.00	
17,100.0	89.50	359.89	9,526.9	7,567.7	-480.5	7,582.1	0.00	0.00	0.00	
17,200.0	89.50	359.89	9,527.8	7,667.7	-480.7	7,682.0	0.00	0.00	0.00	
17,300.0	89.50	359.89	9,528.6	7,767.7	-480.9	7,781.9	0.00	0.00	0.00	
17,400.0	89.50	359.89	9,529.5	7,867.7	-481.1	7,881.7	0.00	0.00	0.00	
17,500.0	89.50	359.89	9,530.4	7,967.7	-481.3	7,981.6	0.00	0.00	0.00	
17,600.0	89.50	359.89	9,531.3	8,067.7	-481.5	8,081.5	0.00	0.00	0.00	
17,700.0	89.50	359.89	9,532.2	8,167.6	-481.7	8,181.4	0.00	0.00	0.00	
17,800.0	89.50	359.89	9,533.0	8,267.6	-481.8	8,281.3	0.00	0.00	0.00	
17,900.0	89.50	359.89	9,533.9	8,367.6	-482.0	8,381.2	0.00	0.00	0.00	
18,000.0	89.50	359.89	9,534.8	8,467.6	-482.2	8,481.1	0.00	0.00	0.00	
18,100.0	89.50	359.89	9,535.7	8,567.6	-482.4	8,580.9	0.00	0.00	0.00	
18,200.0	89.50	359.89	9,536.5	8,667.6	-482.6	8,680.8	0.00	0.00	0.00	
18,300.0	89.50	359.89	9,537.4	8,767.6	-482.8	8,780.7	0.00	0.00	0.00	
18,400.0	89.50	359.89	9,538.3	8,867.6	-482.9	8,880.6	0.00	0.00	0.00	
18,500.0	89.50	359.89	9,539.2	8,967.6	-483.1	8,980.5	0.00	0.00	0.00	
18,600.0	89.50	359.89	9,540.0	9,067.6	-483.3	9,080.4	0.00	0.00	0.00	
18,700.0	89.50	359.89	9,540.9	9,167.6	-483.5	9,180.3	0.00	0.00	0.00	
18,800.0	89.50	359.89	9,541.8	9,267.6	-483.7	9,280.2	0.00	0.00	0.00	
18,900.0	89.50	359.89	9,542.7	9,367.6	-483.9	9,380.0	0.00	0.00	0.00	
19,000.0	89.50	359.89	9,543.5	9,467.6	-484.1	9,479.9	0.00	0.00	0.00	
19,100.0	89.50	359.89	9,544.4	9,567.6	-484.2	9,579.8	0.00	0.00	0.00	
19,200.0	89.50	359.89	9,545.3	9,667.6	-484.4	9,679.7	0.00	0.00	0.00	
19,300.0	89.50	359.89	9,546.2	9,767.6	-484.6	9,779.6	0.00	0.00	0.00	
19,400.0	89.50	359.89	9,547.0	9,867.6	-484.8	9,879.5	0.00	0.00	0.00	
19,500.0	89.50	359.89	9,547.9	9,967.6	-485.0	9,979.4	0.00	0.00	0.00	
19,508.4	89.50	359.89	9,548.0	9,976.0	-485.0	9,987.8	0.00	0.00	0.00	
BHL: 330' FNL & 990' FWL (5)										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pale Rider 8/5 W1MD St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3059.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3059.0usft (Original Well Elev)
Site:	Pale Rider 8/5 W1MD St Com #1H	North Reference:	Grid
Well:	Sec 8, T25S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 990' FWL, Sec 5		
Design:	Design #1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 300' FSL & 1460' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	414,076.00	609,373.00	32.1381828	-104.1135255
KOP: 10' FSL & 990' FW - plan hits target center - Point	0.00	0.00	8,890.0	-291.0	-466.0	413,785.00	608,907.00	32.1373855	-104.1150329
FTP: 330' FSL & 990' FV - plan hits target center - Point	0.00	0.00	9,404.6	30.0	-466.6	414,106.00	608,906.41	32.1382679	-104.1150327
LP: 577' FSL & 990' FWI - plan hits target center - Point	0.00	0.00	9,463.0	277.0	-467.1	414,353.00	608,905.95	32.1389469	-104.1150326
BHL: 330' FNL & 990' FV - plan hits target center - Point	0.00	0.00	9,548.0	9,976.0	-485.0	424,052.00	608,888.00	32.1656088	-104.1150270