

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 293000

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 30-025-48528
4. Property Code 330245	5. Property Name CHAROLAIS 33 21 W1HA STATE COM	6. Well No. 001H

7. Surface Location

UL - Lot H	Section 33	Township 19S	Range 35E	Lot Idn H	Feet From 2625	N/S Line N	Feet From 1250	E/W Line E	County Lea
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	-------------------	---------------	---------------

8. Proposed Bottom Hole Location

UL - Lot A	Section 21	Township 19S	Range 35E	Lot Idn A	Feet From 100	N/S Line N	Feet From 400	E/W Line E	County Lea
---------------	---------------	-----------------	--------------	--------------	------------------	---------------	------------------	---------------	---------------

9. Pool Information

KLEIN RANCH;WOLFCAMP	96989
----------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3690
16. Multiple N	17. Proposed Depth 24155	18. Formation Wolfcamp	19. Contractor	20. Spud Date 4/1/2021
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	54.5	1930	1340	0
Int1	12.25	9.625	40	3640	720	0
Prod	8.75	7	26	11400	890	3440
Liner1	6.125	4.5	13.5	24155	540	10682

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

Title: Vice President Operations

Email Address: prodmgr@mewbourne.com

Date: 3/2/2021

Phone: 903-561-2900

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 3/3/2021

Expiration Date: 3/3/2023

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 96989	³ Pool Name KLEIN RANCH; WOLFCAMP
⁴ Property Code	⁵ Property Name CHAROLAIS 33/21 W1HA STATE COM	⁶ Well Number 1H
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁹ Elevation 3690'

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
H	33	19S	35E		2625	NORTH	1250	EAST	LEA

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
A	21	19S	35E		100	NORTH	400	EAST	LEA

¹² Dedicated Acres 800	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.

<u>GEODETIC DATA</u> NAD 83 GRID - NM EAST <u>SURFACE LOCATION</u> N: 589279.2 - E: 810938.7 LAT: 32.6169268° N LONG: 103.4577191° W <u>BOTTOM HOLE</u> N: 602420.7 - E: 811671.3 LAT: 32.6530283° N LONG: 103.4549873° W <u>CORNER DATA</u> NAD 83 GRID - NM EAST <table border="0"> <tr> <td>A: FOUND BRASS CAP "1912" N: 586582.1 - E: 806900.8</td> <td>I: FOUND 5/8" REBAR N: 599872.9 - E: 812094.2</td> </tr> <tr> <td>B: FOUND 3/8" REBAR N: 589232.5 - E: 806911.6</td> <td>J: CALCULATED CORNER N: 597212.1 - E: 812121.0</td> </tr> <tr> <td>C: FOUND 1" REBAR N: 591876.9 - E: 806871.7</td> <td>K: FOUND 1/2" REBAR N: 594551.3 - E: 812140.3</td> </tr> <tr> <td>D: FOUND 1/2" REBAR N: 597180.6 - E: 806833.3</td> <td>L: FOUND 5/8" REBAR N: 591911.9 - E: 812165.1</td> </tr> <tr> <td>E: FOUND 6"x4"x4" LIMSTONE ROCK N: 599826.9 - E: 806808.3</td> <td>M: FOUND 14"x4"x4" LIMSTONE ROCK N: 589274.0 - E: 812188.6</td> </tr> <tr> <td>F: FOUND 5/8" REBAR N: 602472.4 - E: 806786.3</td> <td>N: CALCULATED CORNER N: 586624.4 - E: 812193.3</td> </tr> <tr> <td>G: FOUND 8"x4"x6" LIMSTONE ROCK N: 602498.9 - E: 809425.1</td> <td>O: FOUND 6"x4"x4" LIMSTONE ROCK N: 597200.2 - E: 809485.6</td> </tr> <tr> <td>H: FOUND 1" REBAR N: 602524.6 - E: 812070.3</td> <td></td> </tr> </table>	A: FOUND BRASS CAP "1912" N: 586582.1 - E: 806900.8	I: FOUND 5/8" REBAR N: 599872.9 - E: 812094.2	B: FOUND 3/8" REBAR N: 589232.5 - E: 806911.6	J: CALCULATED CORNER N: 597212.1 - E: 812121.0	C: FOUND 1" REBAR N: 591876.9 - E: 806871.7	K: FOUND 1/2" REBAR N: 594551.3 - E: 812140.3	D: FOUND 1/2" REBAR N: 597180.6 - E: 806833.3	L: FOUND 5/8" REBAR N: 591911.9 - E: 812165.1	E: FOUND 6"x4"x4" LIMSTONE ROCK N: 599826.9 - E: 806808.3	M: FOUND 14"x4"x4" LIMSTONE ROCK N: 589274.0 - E: 812188.6	F: FOUND 5/8" REBAR N: 602472.4 - E: 806786.3	N: CALCULATED CORNER N: 586624.4 - E: 812193.3	G: FOUND 8"x4"x6" LIMSTONE ROCK N: 602498.9 - E: 809425.1	O: FOUND 6"x4"x4" LIMSTONE ROCK N: 597200.2 - E: 809485.6	H: FOUND 1" REBAR N: 602524.6 - E: 812070.3			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. <i>Bradley Bishop</i> 3-1-21 Signature Date 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. 1-05-2021 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number PROF. ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR
A: FOUND BRASS CAP "1912" N: 586582.1 - E: 806900.8	I: FOUND 5/8" REBAR N: 599872.9 - E: 812094.2																	
B: FOUND 3/8" REBAR N: 589232.5 - E: 806911.6	J: CALCULATED CORNER N: 597212.1 - E: 812121.0																	
C: FOUND 1" REBAR N: 591876.9 - E: 806871.7	K: FOUND 1/2" REBAR N: 594551.3 - E: 812140.3																	
D: FOUND 1/2" REBAR N: 597180.6 - E: 806833.3	L: FOUND 5/8" REBAR N: 591911.9 - E: 812165.1																	
E: FOUND 6"x4"x4" LIMSTONE ROCK N: 599826.9 - E: 806808.3	M: FOUND 14"x4"x4" LIMSTONE ROCK N: 589274.0 - E: 812188.6																	
F: FOUND 5/8" REBAR N: 602472.4 - E: 806786.3	N: CALCULATED CORNER N: 586624.4 - E: 812193.3																	
G: FOUND 8"x4"x6" LIMSTONE ROCK N: 602498.9 - E: 809425.1	O: FOUND 6"x4"x4" LIMSTONE ROCK N: 597200.2 - E: 809485.6																	
H: FOUND 1" REBAR N: 602524.6 - E: 812070.3																		

LS21010859

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: 3/3/2021

☒ 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
CHAROLAIS 33 21 W1HA STATE COM #001H	30-025-48528	H-33-19S-35E	2625N 1250E	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 293000

PERMIT COMMENTS

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241		API Number: 30-025-48528
		Well: CHAROLAIS 33 21 W1HA 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 293000

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-025-48528
	Well: CHAROLAIS 33 21 W1HA STATE COM #001H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.
pkautz	BEFORE WELL CAN BE SPUD. LATERAL WILL BE PRODUCING FROM TWO DIFFERENT POOLS. SUBMIT WO C-102's Sec 21 is in the SHARB:WOLFCAMP, SOUTHEAST POOL AND SEC 28 & SEC 33 IS IN KLEIN RANCH;WOLFCAMP POOL.

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

Lea County, New Mexico NAD 83

Charolais 33/21 W1HA State Com #1H

Sec 33, T19S, R35E

SHL: 2625' FNL & 1250' FEL, Sec 33

BHL: 100' FNL & 400' FEL, Sec 21

Plan: Design #1

Standard Planning Report

25 February, 2021

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Charolais 33/21 W1HA State Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3723.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3723.0usft (Original Well Elev)
Site:	Charolais 33/21 W1HA State Com #1H	North Reference:	Grid
Well:	Sec 33, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 400' FEL, Sec 21		
Design:	Design #1		

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

Site	Charolais 33/21 W1HA State Com #1H			
Site Position:		Northing:	589,279.00 usft	Latitude: 32.6169262
From: Map		Easting:	810,939.00 usft	Longitude: -103.4577183
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.47 °

Well	Sec 33, T19S, R35E			
Well Position	+N/-S	0.0 usft	Northing:	589,279.00 usft
	+E/-W	0.0 usft	Easting:	810,939.00 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,723.0 usft
			Ground Level:	3,695.0 usft

Wellbore	BHL: 100' FNL & 400' FEL, Sec 21				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.12	60.48	48,507

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	3.19

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	
1,850.0	0.00	0.00	1,850.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,135.4	5.71	89.87	2,134.9	0.0	14.2	2.00	2.00	0.00	89.87	
10,396.5	5.71	89.87	10,355.1	2.0	835.8	0.00	0.00	0.00	0.00	
10,681.9	0.00	0.00	10,640.0	2.0	850.0	2.00	-2.00	0.00	180.00	KOP: 2628' FNL & 40
11,598.5	91.62	359.49	11,213.0	591.4	844.7	10.00	10.00	0.00	-0.51	
24,154.6	91.62	359.49	10,858.0	13,142.0	732.0	0.00	0.00	0.00	0.00	BHL: 100' FNL & 400'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Charolais 33/21 W1HA State Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3723.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3723.0usft (Original Well Elev)
Site:	Charolais 33/21 W1HA State Com #1H	North Reference:	Grid
Well:	Sec 33, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 400' FEL, Sec 21		
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: 2625' FNL & 1250' FEL (33)									
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
1,850.0	0.00	0.00	1,850.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	1.00	89.87	1,900.0	0.0	0.4	0.0	2.00	2.00	0.00
2,000.0	3.00	89.87	1,999.9	0.0	3.9	0.2	2.00	2.00	0.00
2,100.0	5.00	89.87	2,099.7	0.0	10.9	0.6	2.00	2.00	0.00
2,135.4	5.71	89.87	2,134.9	0.0	14.2	0.8	2.00	2.00	0.00
2,200.0	5.71	89.87	2,199.2	0.0	20.6	1.2	0.00	0.00	0.00
2,300.0	5.71	89.87	2,298.7	0.1	30.6	1.8	0.00	0.00	0.00
2,400.0	5.71	89.87	2,398.2	0.1	40.5	2.3	0.00	0.00	0.00
2,500.0	5.71	89.87	2,497.7	0.1	50.5	2.9	0.00	0.00	0.00
2,600.0	5.71	89.87	2,597.2	0.1	60.4	3.5	0.00	0.00	0.00
2,700.0	5.71	89.87	2,696.7	0.2	70.4	4.1	0.00	0.00	0.00
2,800.0	5.71	89.87	2,796.2	0.2	80.3	4.7	0.00	0.00	0.00
2,900.0	5.71	89.87	2,895.7	0.2	90.2	5.2	0.00	0.00	0.00
3,000.0	5.71	89.87	2,995.2	0.2	100.2	5.8	0.00	0.00	0.00
3,100.0	5.71	89.87	3,094.7	0.3	110.1	6.4	0.00	0.00	0.00
3,200.0	5.71	89.87	3,194.3	0.3	120.1	7.0	0.00	0.00	0.00
3,300.0	5.71	89.87	3,293.8	0.3	130.0	7.5	0.00	0.00	0.00
3,400.0	5.71	89.87	3,393.3	0.3	140.0	8.1	0.00	0.00	0.00
3,500.0	5.71	89.87	3,492.8	0.4	149.9	8.7	0.00	0.00	0.00
3,600.0	5.71	89.87	3,592.3	0.4	159.9	9.3	0.00	0.00	0.00
3,700.0	5.71	89.87	3,691.8	0.4	169.8	9.8	0.00	0.00	0.00
3,800.0	5.71	89.87	3,791.3	0.4	179.8	10.4	0.00	0.00	0.00
3,900.0	5.71	89.87	3,890.8	0.4	189.7	11.0	0.00	0.00	0.00
4,000.0	5.71	89.87	3,990.3	0.5	199.6	11.6	0.00	0.00	0.00
4,100.0	5.71	89.87	4,089.8	0.5	209.6	12.1	0.00	0.00	0.00
4,200.0	5.71	89.87	4,189.3	0.5	219.5	12.7	0.00	0.00	0.00
4,300.0	5.71	89.87	4,288.8	0.5	229.5	13.3	0.00	0.00	0.00
4,400.0	5.71	89.87	4,388.3	0.6	239.4	13.9	0.00	0.00	0.00
4,500.0	5.71	89.87	4,487.8	0.6	249.4	14.5	0.00	0.00	0.00
4,600.0	5.71	89.87	4,587.3	0.6	259.3	15.0	0.00	0.00	0.00
4,700.0	5.71	89.87	4,686.8	0.6	269.3	15.6	0.00	0.00	0.00
4,800.0	5.71	89.87	4,786.3	0.7	279.2	16.2	0.00	0.00	0.00
4,900.0	5.71	89.87	4,885.8	0.7	289.2	16.8	0.00	0.00	0.00
5,000.0	5.71	89.87	4,985.3	0.7	299.1	17.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Charolais 33/21 W1HA State Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3723.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3723.0usft (Original Well Elev)
Site:	Charolais 33/21 W1HA State Com #1H	North Reference:	Grid
Well:	Sec 33, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 400' FEL, Sec 21		
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	5.71	89.87	5,084.8	0.7	309.0	17.9	0.00	0.00	0.00	
5,200.0	5.71	89.87	5,184.3	0.8	319.0	18.5	0.00	0.00	0.00	
5,300.0	5.71	89.87	5,283.8	0.8	328.9	19.1	0.00	0.00	0.00	
5,400.0	5.71	89.87	5,383.3	0.8	338.9	19.6	0.00	0.00	0.00	
5,500.0	5.71	89.87	5,482.8	0.8	348.8	20.2	0.00	0.00	0.00	
5,600.0	5.71	89.87	5,582.4	0.8	358.8	20.8	0.00	0.00	0.00	
5,700.0	5.71	89.87	5,681.9	0.9	368.7	21.4	0.00	0.00	0.00	
5,800.0	5.71	89.87	5,781.4	0.9	378.7	21.9	0.00	0.00	0.00	
5,900.0	5.71	89.87	5,880.9	0.9	388.6	22.5	0.00	0.00	0.00	
6,000.0	5.71	89.87	5,980.4	0.9	398.6	23.1	0.00	0.00	0.00	
6,100.0	5.71	89.87	6,079.9	1.0	408.5	23.7	0.00	0.00	0.00	
6,200.0	5.71	89.87	6,179.4	1.0	418.4	24.3	0.00	0.00	0.00	
6,300.0	5.71	89.87	6,278.9	1.0	428.4	24.8	0.00	0.00	0.00	
6,400.0	5.71	89.87	6,378.4	1.0	438.3	25.4	0.00	0.00	0.00	
6,500.0	5.71	89.87	6,477.9	1.1	448.3	26.0	0.00	0.00	0.00	
6,600.0	5.71	89.87	6,577.4	1.1	458.2	26.6	0.00	0.00	0.00	
6,700.0	5.71	89.87	6,676.9	1.1	468.2	27.1	0.00	0.00	0.00	
6,800.0	5.71	89.87	6,776.4	1.1	478.1	27.7	0.00	0.00	0.00	
6,900.0	5.71	89.87	6,875.9	1.1	488.1	28.3	0.00	0.00	0.00	
7,000.0	5.71	89.87	6,975.4	1.2	498.0	28.9	0.00	0.00	0.00	
7,100.0	5.71	89.87	7,074.9	1.2	507.9	29.4	0.00	0.00	0.00	
7,200.0	5.71	89.87	7,174.4	1.2	517.9	30.0	0.00	0.00	0.00	
7,300.0	5.71	89.87	7,273.9	1.2	527.8	30.6	0.00	0.00	0.00	
7,400.0	5.71	89.87	7,373.4	1.3	537.8	31.2	0.00	0.00	0.00	
7,500.0	5.71	89.87	7,472.9	1.3	547.7	31.7	0.00	0.00	0.00	
7,600.0	5.71	89.87	7,572.4	1.3	557.7	32.3	0.00	0.00	0.00	
7,700.0	5.71	89.87	7,671.9	1.3	567.6	32.9	0.00	0.00	0.00	
7,800.0	5.71	89.87	7,771.4	1.4	577.6	33.5	0.00	0.00	0.00	
7,900.0	5.71	89.87	7,870.9	1.4	587.5	34.1	0.00	0.00	0.00	
8,000.0	5.71	89.87	7,970.5	1.4	597.5	34.6	0.00	0.00	0.00	
8,100.0	5.71	89.87	8,070.0	1.4	607.4	35.2	0.00	0.00	0.00	
8,200.0	5.71	89.87	8,169.5	1.5	617.3	35.8	0.00	0.00	0.00	
8,300.0	5.71	89.87	8,269.0	1.5	627.3	36.4	0.00	0.00	0.00	
8,400.0	5.71	89.87	8,368.5	1.5	637.2	36.9	0.00	0.00	0.00	
8,500.0	5.71	89.87	8,468.0	1.5	647.2	37.5	0.00	0.00	0.00	
8,600.0	5.71	89.87	8,567.5	1.5	657.1	38.1	0.00	0.00	0.00	
8,700.0	5.71	89.87	8,667.0	1.6	667.1	38.7	0.00	0.00	0.00	
8,800.0	5.71	89.87	8,766.5	1.6	677.0	39.2	0.00	0.00	0.00	
8,900.0	5.71	89.87	8,866.0	1.6	687.0	39.8	0.00	0.00	0.00	
9,000.0	5.71	89.87	8,965.5	1.6	696.9	40.4	0.00	0.00	0.00	
9,100.0	5.71	89.87	9,065.0	1.7	706.9	41.0	0.00	0.00	0.00	
9,200.0	5.71	89.87	9,164.5	1.7	716.8	41.5	0.00	0.00	0.00	
9,300.0	5.71	89.87	9,264.0	1.7	726.7	42.1	0.00	0.00	0.00	
9,400.0	5.71	89.87	9,363.5	1.7	736.7	42.7	0.00	0.00	0.00	
9,500.0	5.71	89.87	9,463.0	1.8	746.6	43.3	0.00	0.00	0.00	
9,600.0	5.71	89.87	9,562.5	1.8	756.6	43.9	0.00	0.00	0.00	
9,700.0	5.71	89.87	9,662.0	1.8	766.5	44.4	0.00	0.00	0.00	
9,800.0	5.71	89.87	9,761.5	1.8	776.5	45.0	0.00	0.00	0.00	
9,900.0	5.71	89.87	9,861.0	1.9	786.4	45.6	0.00	0.00	0.00	
10,000.0	5.71	89.87	9,960.5	1.9	796.4	46.2	0.00	0.00	0.00	
10,100.0	5.71	89.87	10,060.0	1.9	806.3	46.7	0.00	0.00	0.00	
10,200.0	5.71	89.87	10,159.5	1.9	816.3	47.3	0.00	0.00	0.00	
10,300.0	5.71	89.87	10,259.0	1.9	826.2	47.9	0.00	0.00	0.00	
10,396.5	5.71	89.87	10,355.1	2.0	835.8	48.4	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Charolais 33/21 W1HA State Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3723.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3723.0usft (Original Well Elev)
Site:	Charolais 33/21 W1HA State Com #1H	North Reference:	Grid
Well:	Sec 33, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 400' FEL, Sec 21		
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)	
10,400.0	5.64	89.87	10,358.6	2.0	836.1	48.5	2.00	-2.00	0.00	
10,500.0	3.64	89.87	10,458.2	2.0	844.2	48.9	2.00	-2.00	0.00	
10,600.0	1.64	89.87	10,558.1	2.0	848.8	49.2	2.00	-2.00	0.00	
10,681.9	0.00	0.00	10,640.0	2.0	850.0	49.3	2.00	-2.00	0.00	
KOP: 2628' FNL & 400' FEL (33)										
10,700.0	1.81	359.49	10,658.1	2.3	850.0	49.6	10.00	10.00	0.00	
10,800.0	11.80	359.49	10,757.3	14.1	849.9	61.4	10.00	10.00	0.00	
10,900.0	21.80	359.49	10,852.9	43.0	849.6	90.2	10.00	10.00	0.00	
10,998.1	31.60	359.49	10,940.4	87.0	849.2	134.1	10.00	10.00	0.00	
FTP: 2538' FNL & 400' FEL (33)										
11,000.0	31.79	359.49	10,942.0	88.0	849.2	135.1	10.00	10.00	0.00	
11,100.0	41.79	359.49	11,022.0	147.8	848.7	194.8	10.00	10.00	0.00	
11,200.0	51.79	359.49	11,090.4	220.6	848.0	267.4	10.00	10.00	0.00	
11,300.0	61.78	359.49	11,145.1	304.2	847.3	350.8	10.00	10.00	0.00	
11,400.0	71.78	359.49	11,184.5	395.9	846.5	442.4	10.00	10.00	0.00	
11,500.0	81.77	359.49	11,207.3	493.2	845.6	539.4	10.00	10.00	0.00	
11,598.5	91.62	359.49	11,213.0	591.4	844.7	637.5	10.00	10.00	0.00	
LP: 2034' FNL & 400' FEL (33)										
11,600.0	91.62	359.49	11,213.0	592.9	844.7	638.9	0.08	0.08	0.00	
11,700.0	91.62	359.49	11,210.1	692.8	843.8	738.7	0.00	0.00	0.00	
11,800.0	91.62	359.49	11,207.3	792.8	842.9	838.4	0.00	0.00	0.00	
11,900.0	91.62	359.49	11,204.5	892.7	842.0	938.2	0.00	0.00	0.00	
12,000.0	91.62	359.49	11,201.6	992.7	841.1	1,037.9	0.00	0.00	0.00	
12,100.0	91.62	359.49	11,198.8	1,092.7	840.2	1,137.7	0.00	0.00	0.00	
12,200.0	91.62	359.49	11,196.0	1,192.6	839.3	1,237.4	0.00	0.00	0.00	
12,300.0	91.62	359.49	11,193.2	1,292.6	838.4	1,337.2	0.00	0.00	0.00	
12,400.0	91.62	359.49	11,190.3	1,392.5	837.5	1,436.9	0.00	0.00	0.00	
12,500.0	91.62	359.49	11,187.5	1,492.5	836.6	1,536.7	0.00	0.00	0.00	
12,600.0	91.62	359.49	11,184.7	1,592.4	835.7	1,636.4	0.00	0.00	0.00	
12,700.0	91.62	359.49	11,181.9	1,692.4	834.8	1,736.2	0.00	0.00	0.00	
12,800.0	91.62	359.49	11,179.0	1,792.3	833.9	1,836.0	0.00	0.00	0.00	
12,900.0	91.62	359.49	11,176.2	1,892.3	833.0	1,935.7	0.00	0.00	0.00	
13,000.0	91.62	359.49	11,173.4	1,992.3	832.1	2,035.5	0.00	0.00	0.00	
13,100.0	91.62	359.49	11,170.5	2,092.2	831.2	2,135.2	0.00	0.00	0.00	
13,200.0	91.62	359.49	11,167.7	2,192.2	830.3	2,235.0	0.00	0.00	0.00	
13,300.0	91.62	359.49	11,164.9	2,292.1	829.4	2,334.7	0.00	0.00	0.00	
13,400.0	91.62	359.49	11,162.1	2,392.1	828.5	2,434.5	0.00	0.00	0.00	
13,500.0	91.62	359.49	11,159.2	2,492.0	827.6	2,534.2	0.00	0.00	0.00	
13,600.0	91.62	359.49	11,156.4	2,592.0	826.7	2,634.0	0.00	0.00	0.00	
13,700.0	91.62	359.49	11,153.6	2,692.0	825.8	2,733.7	0.00	0.00	0.00	
13,800.0	91.62	359.49	11,150.8	2,791.9	824.9	2,833.5	0.00	0.00	0.00	
13,900.0	91.62	359.49	11,147.9	2,891.9	824.0	2,933.2	0.00	0.00	0.00	
14,000.0	91.62	359.49	11,145.1	2,991.8	823.2	3,033.0	0.00	0.00	0.00	
14,100.0	91.62	359.49	11,142.3	3,091.8	822.3	3,132.7	0.00	0.00	0.00	
14,200.0	91.62	359.49	11,139.4	3,191.7	821.4	3,232.5	0.00	0.00	0.00	
14,300.0	91.62	359.49	11,136.6	3,291.7	820.5	3,332.2	0.00	0.00	0.00	
14,400.0	91.62	359.49	11,133.8	3,391.6	819.6	3,432.0	0.00	0.00	0.00	
14,500.0	91.62	359.49	11,131.0	3,491.6	818.7	3,531.7	0.00	0.00	0.00	
14,600.0	91.62	359.49	11,128.1	3,591.6	817.8	3,631.5	0.00	0.00	0.00	
14,700.0	91.62	359.49	11,125.3	3,691.5	816.9	3,731.2	0.00	0.00	0.00	
14,800.0	91.62	359.49	11,122.5	3,791.5	816.0	3,831.0	0.00	0.00	0.00	
14,900.0	91.62	359.49	11,119.7	3,891.4	815.1	3,930.7	0.00	0.00	0.00	
15,000.0	91.62	359.49	11,116.8	3,991.4	814.2	4,030.5	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Charolais 33/21 W1HA State Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3723.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3723.0usft (Original Well Elev)
Site:	Charolais 33/21 W1HA State Com #1H	North Reference:	Grid
Well:	Sec 33, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 400' FEL, Sec 21		
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	91.62	359.49	11,114.0	4,091.3	813.3	4,130.2	0.00	0.00	0.00
15,200.0	91.62	359.49	11,111.2	4,191.3	812.4	4,230.0	0.00	0.00	0.00
15,300.0	91.62	359.49	11,108.3	4,291.2	811.5	4,329.7	0.00	0.00	0.00
15,400.0	91.62	359.49	11,105.5	4,391.2	810.6	4,429.5	0.00	0.00	0.00
15,500.0	91.62	359.49	11,102.7	4,491.2	809.7	4,529.2	0.00	0.00	0.00
15,600.0	91.62	359.49	11,099.9	4,591.1	808.8	4,629.0	0.00	0.00	0.00
15,700.0	91.62	359.49	11,097.0	4,691.1	807.9	4,728.7	0.00	0.00	0.00
15,800.0	91.62	359.49	11,094.2	4,791.0	807.0	4,828.5	0.00	0.00	0.00
15,900.0	91.62	359.49	11,091.4	4,891.0	806.1	4,928.2	0.00	0.00	0.00
16,000.0	91.62	359.49	11,088.6	4,990.9	805.2	5,028.0	0.00	0.00	0.00
16,100.0	91.62	359.49	11,085.7	5,090.9	804.3	5,127.7	0.00	0.00	0.00
16,200.0	91.62	359.49	11,082.9	5,190.9	803.4	5,227.5	0.00	0.00	0.00
16,300.0	91.62	359.49	11,080.1	5,290.8	802.5	5,327.2	0.00	0.00	0.00
16,400.0	91.62	359.49	11,077.2	5,390.8	801.6	5,427.0	0.00	0.00	0.00
16,500.0	91.62	359.49	11,074.4	5,490.7	800.7	5,526.8	0.00	0.00	0.00
16,600.0	91.62	359.49	11,071.6	5,590.7	799.8	5,626.5	0.00	0.00	0.00
16,700.0	91.62	359.49	11,068.8	5,690.6	798.9	5,726.3	0.00	0.00	0.00
16,800.0	91.62	359.49	11,065.9	5,790.6	798.0	5,826.0	0.00	0.00	0.00
16,900.0	91.62	359.49	11,063.1	5,890.5	797.1	5,925.8	0.00	0.00	0.00
17,000.0	91.62	359.49	11,060.3	5,990.5	796.2	6,025.5	0.00	0.00	0.00
17,100.0	91.62	359.49	11,057.5	6,090.5	795.3	6,125.3	0.00	0.00	0.00
17,200.0	91.62	359.49	11,054.6	6,190.4	794.4	6,225.0	0.00	0.00	0.00
17,300.0	91.62	359.49	11,051.8	6,290.4	793.5	6,324.8	0.00	0.00	0.00
17,400.0	91.62	359.49	11,049.0	6,390.3	792.6	6,424.5	0.00	0.00	0.00
17,500.0	91.62	359.49	11,046.1	6,490.3	791.7	6,524.3	0.00	0.00	0.00
17,600.0	91.62	359.49	11,043.3	6,590.2	790.8	6,624.0	0.00	0.00	0.00
17,700.0	91.62	359.49	11,040.5	6,690.2	789.9	6,723.8	0.00	0.00	0.00
17,800.0	91.62	359.49	11,037.7	6,790.1	789.0	6,823.5	0.00	0.00	0.00
17,900.0	91.62	359.49	11,034.8	6,890.1	788.1	6,923.3	0.00	0.00	0.00
18,000.0	91.62	359.49	11,032.0	6,990.1	787.2	7,023.0	0.00	0.00	0.00
18,100.0	91.62	359.49	11,029.2	7,090.0	786.3	7,122.8	0.00	0.00	0.00
18,200.0	91.62	359.49	11,026.4	7,190.0	785.5	7,222.5	0.00	0.00	0.00
18,300.0	91.62	359.49	11,023.5	7,289.9	784.6	7,322.3	0.00	0.00	0.00
18,400.0	91.62	359.49	11,020.7	7,389.9	783.7	7,422.0	0.00	0.00	0.00
18,500.0	91.62	359.49	11,017.9	7,489.8	782.8	7,521.8	0.00	0.00	0.00
18,600.0	91.62	359.49	11,015.0	7,589.8	781.9	7,621.5	0.00	0.00	0.00
18,700.0	91.62	359.49	11,012.2	7,689.8	781.0	7,721.3	0.00	0.00	0.00
18,800.0	91.62	359.49	11,009.4	7,789.7	780.1	7,821.0	0.00	0.00	0.00
18,900.0	91.62	359.49	11,006.6	7,889.7	779.2	7,920.8	0.00	0.00	0.00
19,000.0	91.62	359.49	11,003.7	7,989.6	778.3	8,020.5	0.00	0.00	0.00
19,100.0	91.62	359.49	11,000.9	8,089.6	777.4	8,120.3	0.00	0.00	0.00
19,200.0	91.62	359.49	10,998.1	8,189.5	776.5	8,220.0	0.00	0.00	0.00
19,300.0	91.62	359.49	10,995.3	8,289.5	775.6	8,319.8	0.00	0.00	0.00
19,400.0	91.62	359.49	10,992.4	8,389.4	774.7	8,419.5	0.00	0.00	0.00
19,500.0	91.62	359.49	10,989.6	8,489.4	773.8	8,519.3	0.00	0.00	0.00
19,600.0	91.62	359.49	10,986.8	8,589.4	772.9	8,619.0	0.00	0.00	0.00
19,700.0	91.62	359.49	10,983.9	8,689.3	772.0	8,718.8	0.00	0.00	0.00
19,800.0	91.62	359.49	10,981.1	8,789.3	771.1	8,818.5	0.00	0.00	0.00
19,900.0	91.62	359.49	10,978.3	8,889.2	770.2	8,918.3	0.00	0.00	0.00
20,000.0	91.62	359.49	10,975.5	8,989.2	769.3	9,018.1	0.00	0.00	0.00
20,100.0	91.62	359.49	10,972.6	9,089.1	768.4	9,117.8	0.00	0.00	0.00
20,200.0	91.62	359.49	10,969.8	9,189.1	767.5	9,217.6	0.00	0.00	0.00
20,300.0	91.62	359.49	10,967.0	9,289.0	766.6	9,317.3	0.00	0.00	0.00
20,400.0	91.62	359.49	10,964.2	9,389.0	765.7	9,417.1	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Charolais 33/21 W1HA State Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3723.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3723.0usft (Original Well Elev)
Site:	Charolais 33/21 W1HA State Com #1H	North Reference:	Grid
Well:	Sec 33, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 400' FEL, Sec 21		
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)	
20,500.0	91.62	359.49	10,961.3	9,489.0	764.8	9,516.8	0.00	0.00	0.00	
20,600.0	91.62	359.49	10,958.5	9,588.9	763.9	9,616.6	0.00	0.00	0.00	
20,700.0	91.62	359.49	10,955.7	9,688.9	763.0	9,716.3	0.00	0.00	0.00	
20,800.0	91.62	359.49	10,952.8	9,788.8	762.1	9,816.1	0.00	0.00	0.00	
20,900.0	91.62	359.49	10,950.0	9,888.8	761.2	9,915.8	0.00	0.00	0.00	
21,000.0	91.62	359.49	10,947.2	9,988.7	760.3	10,015.6	0.00	0.00	0.00	
21,100.0	91.62	359.49	10,944.4	10,088.7	759.4	10,115.3	0.00	0.00	0.00	
21,200.0	91.62	359.49	10,941.5	10,188.7	758.5	10,215.1	0.00	0.00	0.00	
21,300.0	91.62	359.49	10,938.7	10,288.6	757.6	10,314.8	0.00	0.00	0.00	
21,400.0	91.62	359.49	10,935.9	10,388.6	756.7	10,414.6	0.00	0.00	0.00	
21,500.0	91.62	359.49	10,933.1	10,488.5	755.8	10,514.3	0.00	0.00	0.00	
21,600.0	91.62	359.49	10,930.2	10,588.5	754.9	10,614.1	0.00	0.00	0.00	
21,700.0	91.62	359.49	10,927.4	10,688.4	754.0	10,713.8	0.00	0.00	0.00	
21,800.0	91.62	359.49	10,924.6	10,788.4	753.1	10,813.6	0.00	0.00	0.00	
21,900.0	91.62	359.49	10,921.7	10,888.3	752.2	10,913.3	0.00	0.00	0.00	
22,000.0	91.62	359.49	10,918.9	10,988.3	751.3	11,013.1	0.00	0.00	0.00	
22,100.0	91.62	359.49	10,916.1	11,088.3	750.4	11,112.8	0.00	0.00	0.00	
22,200.0	91.62	359.49	10,913.3	11,188.2	749.5	11,212.6	0.00	0.00	0.00	
22,300.0	91.62	359.49	10,910.4	11,288.2	748.6	11,312.3	0.00	0.00	0.00	
22,400.0	91.62	359.49	10,907.6	11,388.1	747.8	11,412.1	0.00	0.00	0.00	
22,500.0	91.62	359.49	10,904.8	11,488.1	746.9	11,511.8	0.00	0.00	0.00	
22,600.0	91.62	359.49	10,902.0	11,588.0	746.0	11,611.6	0.00	0.00	0.00	
22,700.0	91.62	359.49	10,899.1	11,688.0	745.1	11,711.3	0.00	0.00	0.00	
22,800.0	91.62	359.49	10,896.3	11,787.9	744.2	11,811.1	0.00	0.00	0.00	
22,900.0	91.62	359.49	10,893.5	11,887.9	743.3	11,910.8	0.00	0.00	0.00	
23,000.0	91.62	359.49	10,890.6	11,987.9	742.4	12,010.6	0.00	0.00	0.00	
23,100.0	91.62	359.49	10,887.8	12,087.8	741.5	12,110.3	0.00	0.00	0.00	
23,200.0	91.62	359.49	10,885.0	12,187.8	740.6	12,210.1	0.00	0.00	0.00	
23,300.0	91.62	359.49	10,882.2	12,287.7	739.7	12,309.8	0.00	0.00	0.00	
23,400.0	91.62	359.49	10,879.3	12,387.7	738.8	12,409.6	0.00	0.00	0.00	
23,500.0	91.62	359.49	10,876.5	12,487.6	737.9	12,509.3	0.00	0.00	0.00	
23,600.0	91.62	359.49	10,873.7	12,587.6	737.0	12,609.1	0.00	0.00	0.00	
23,700.0	91.62	359.49	10,870.9	12,687.6	736.1	12,708.9	0.00	0.00	0.00	
23,800.0	91.62	359.49	10,868.0	12,787.5	735.2	12,808.6	0.00	0.00	0.00	
23,900.0	91.62	359.49	10,865.2	12,887.5	734.3	12,908.4	0.00	0.00	0.00	
24,000.0	91.62	359.49	10,862.4	12,987.4	733.4	13,008.1	0.00	0.00	0.00	
24,100.0	91.62	359.49	10,859.5	13,087.4	732.5	13,107.9	0.00	0.00	0.00	
24,154.6	91.62	359.49	10,858.0	13,142.0	732.0	13,162.4	0.00	0.00	0.00	
BHL: 100' FNL & 400' FEL (21)										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Charolais 33/21 W1HA State Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3723.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3723.0usft (Original Well Elev)
Site:	Charolais 33/21 W1HA State Com #1H	North Reference:	Grid
Well:	Sec 33, T19S, R35E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FNL & 400' FEL, Sec 21		
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: 2625' FNL & 1250' - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	589,279.00	810,939.00	32.6169262	-103.4577183
KOP: 2628' FNL & 400' I - plan hits target center - Point	0.00	0.00	10,640.0	2.0	850.0	589,281.00	811,789.00	32.6169124	-103.4549579
BHL: 100' FNL & 400' FE - plan hits target center - Point	0.00	0.00	10,858.0	13,142.0	732.0	602,421.00	811,671.00	32.6530291	-103.4549883
FTP: 2538' FNL & 400' F - plan hits target center - Point	0.00	0.00	10,940.4	87.0	849.2	589,366.00	811,788.23	32.6171460	-103.4549581
LP: 2034' FNL & 400' FE - plan hits target center - Point	0.00	0.00	11,213.0	591.4	844.7	589,870.40	811,783.71	32.6185324	-103.4549592