

NM OIL CONSERVATION

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ARTESIA DISTRICT

APR 13 2015

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. NMNM0540701
2. Name of Operator MEWBOURNE OIL COMPANY		6. If Indian, Allottee or Tribe Name
Contact: JACKIE LATHAN E-Mail: jlathan@mewbourne.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address P O BOX 5270 HOBBS, NM 88241	3b. Phone No. (include area code) Ph: 575-393-5905	8. Well Name and No. JESTER 19 W2AP FED COM 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T23S R27E NENE 185FNL 710FEL 32.296940 N Lat, 104.222478 W Lon		9. API Well No. 30-015-42830-00-X1
		10. Field and Pool, or Exploratory FOREHAND RANCH
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MOC has an approved APD for the above subject well. MOC would like to change the well name to Jester 19/30 WOH Fed Com #1H as well as change the BHL. Please see attached for details. Please call Jake Nave with any questions.

Bond on file: NM1693 nationwide & NMB000919

Bond on file: 22015694 nationwide & 022041703 Statewide

Original COAs still stand.
- now cementing 4 1/2" liner
23% excess may need additional cement.

REC 4/28/15
Accepted for record
NMOC

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #297674 verified by the BLM Well Information System For MEWBOURNE OIL COMPANY, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 04/09/2015 (15JAS0324SE)	
Name (Printed/Typed) JACKIE LATHAN	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 04/08/2015

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By	Title	Date
		APR 9 2015
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office
		BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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 3001542830		2 Pool Code 76780		3 Pool Name FOREHAND RANCH Southwest					
4 Property Code		5 Property Name JESTER 19/30 WOAHH FED COM				6 Well Number 1H			
7 GRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY				9 Elevation 3192'			
10 Surface Location									
UL or lot no. A	Section 19	Township 23S	Range 27E	Lot Idn	Feet from the 185	North/South line NORTH	Feet From the 710	East/West line EAST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no. H	Section 30	Township 23S	Range 27E	Lot Idn	Feet from the 2310	North/South line NORTH	Feet from the 660	East/West line EAST	County EDDY
12 Dedicated Acres 480		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.

16 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 471761.3 E 534253.5 LAT: 32.29693965° N LONG: 104.22247766° W BOTTOM LOCATION N 464356.7 - E 534311.0 CORNER DATA NAD 27 GRID - NM EAST A: FND BRASS CAP "1943" N 461282.2 - E 529656.0 B: FND BRASS CAP "1943" N 463932.6 - E 529658.0 C: FND BRASS CAP 1943 N 466582.4 - E 529660.5 D: FND BRASS CAP 1943 N 469232.9 - E 529665.1 E: FND BRASS CAP 1943 N 471883.1 - E 529671.5 F: FND 1/2" RBR IN STONE MOUND N 471919.9 - E 532336.8 G: FND PK NAIL IN CL ROAD N 471956.1 - E 534962.0 H: FND PK NAIL N 466678.3 - E 534996.8 I: CALCULATED CORNER N 461349.8 - E 534937.9		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: <u>Bradley Bishop</u> Date: <u>4-8-15</u> Printed Name: <u>BRADLEY BISHOP</u> 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. 5-27-14 Date of Survey Signature and Seal of <u>Robert M. Howett</u> 19680 Certificate Number REV: NAME & B.H.	
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Drilling Program
Mewbourne Oil Company
 Jester 19/30 W0AH Fed Com #1H
 SL: 185' FNL & 710' FEL, Sec 19
 BHL: 2310' FNL & 660' FEL, Sec 30
 Sec. 19, T23S, R27E
 Eddy County, New Mexico

1. The estimated (TVD) tops of geological markers are as follows:

Rustler	425'
Top of Salt	550'
Base of Salt	1940'
Delaware	2060'
Bell Canyon	NP
Cherry Canyon	NP
Manzanita Marker	NP
Brushy Canyon	NP
*Bone Springs	5320'
1 st Bone Spring Sand	6375'
2 nd Bone Spring Sand	6910'
3 rd Bone Spring Sand	8480'
Wolfcamp	8820'

2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water is anticipated @ 175' and will be protected by setting surface casing at 450' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 2000# WP annular will be installed after running 13 3/8" casing. A 5000# WP double ram BOP and 5000# WP Annular will be installed after running 9 5/8" & 7" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPs will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. Will test the 13 3/8" annular to 1250# and the 9 5/8" & 7" BOPE to 5000# and annular to 2500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. Drilling Program:

MOC proposes to drill a vertical wellbore to 8468' & kick off to horizontal @ 8945' TVD. The well will be drilled to 16147' MD (8925' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-450'	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-2000'	LT&C
8 3/4"	7" (new)	26#	P110	0-8468' MD	LT&C
8 3/4"	7" (new)	26#	P110	8468'-9219' MD	BT&C
6 1/8"	4 1/2" (new)	13.5#	P110	8468'-TD	LT&C

*Subject to availability of casing.

B. Cementing Program:

- i. Surface Casing: 204 sacks *Lite "C" (35:65:4) cement w/salt and lost circulation additives. Yield at 2.12 cuft/sk. Mix @ 11.17gal/sk FW. 200 sks class "C" w/2% CaCl₂. Yield at 1.34 cuft/sk. Mix @ 6.34gal/sk FW. Cmt circulated to surface w/100% excess.
- ii. Intermediate Casing: 280 sacks *Lite "C" (35:65:4) cement w/salt and lost circulation material additives. Yield at 2.12 cuft/sk. Mix @ 11.17gal/sk FW. 200 sks class "C" neat. Yield at 1.33 cuft/sk. Mix @ 6.32gal/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 470 sacks *Lite "C" (60:40:0) cement w/salt and fluid loss additives. Yield at 2.12 cuft/sk. Mix @ 11.31gal/sk FW. 300 sks class "H" w/salt and fluid loss additives. Yield at 1.18 cuft/sk. Mix @ 5.21gal/sk FW. Cmt calculated to tieback into intermediate casing @ 1800' w/25% excess.
- iv. Production Liner: 305 sks Class C (60:40:0) w/4% MPA-5, 1.2% BA10, 10#/sk BA90, 5% A10, 0.65% ASA301, 1.5% SMS, 1.2% R21. Yield @ 2.97 cuft/sk. Mix @ 17.46 gal/sk. Will run packer type liner hanger @ 8468'. Cement volume calculated to 25% excess.

*Referring to above blends of lite cement: (wt% fly ash : wt% cement : wt% bentonite of the total of first two numbers). Generic names of additives are used since the availability of specific company and products are unknown at this time.

*Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

6. Mud Program:

<u>Interval</u>	<u>Type System</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0'-450'	FW spud mud	8.6-9.0	32-34	NA
450'-2000'	Brine water	10.0	29-30	NA
2000'-8468'	FW mud	8.6-8.8	28-30	NA
8468'- TD	FW w/Polymer	8.5-12.5	32-35	15

*Visual mud monitoring system shall be in place to detect volume changes indicating loss or gain of circulation fluid volume. Sufficient mud materials will be kept on location at all times to combat abnormal conditions.

7. Evaluation Program:

Samples: 10' samples from surface casing to TD
Logging: GR, CNL & Gyro from KOP-100' (8468') to surface and GR from KOP to TD.

8. Downhole Conditions

Zones of abnormal pressure:	None anticipated
Zones of lost circulation:	Anticipated in surface and intermediate holes
Maximum bottom hole temperature:	145 degree F
Maximum bottom hole pressure:	8.3 lbs/gal gradient or less (8945' x .44 = 3936 psi per foot.)

9. Anticipated Starting Date:

Drilling Program
Mewbourne Oil Company
Jester 19 W2AP Fed Com #1H
Page 3

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

Mewbourne Oil Company

Eddy County, New Mexico

Jester 19/30 W0AH Fed Com 1H

Sec 19, T23S, R27E

SL: 185' FNL & 710' FEL, Sec 19

BHL: 2310' FNL & 660' FEL, Sec 30

Plan: Design #1

Standard Planning Report

06 April, 2015

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Jester 19/30 W0AH Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3195.0usft (Original Well Elev)
Site:	Jester 19/30 W0AH Fed Com 1H	North Reference:	Grid
Well:	Sec 19, T23S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL 2310' FNL & 660' FEL, Sec 30		
Design:	Design #1		

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Jester 19/30 W0AH Fed Com 1H		
Site Position:	Map	Northings:	471,761.30 usft
From:		Eastings:	534,253.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 48.983 N
		Longitude:	104° 13' 20.919 W
		Grid Convergence:	0.06 °

Well:	Sec 19, T23S, R27E		
Well Position	+N-S	0.0 usft	Northings:
	+E-W	0.0 usft	Eastings:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,195.0 usft
		Latitude:	32° 17' 48.983 N
		Longitude:	104° 13' 20.919 W
		Ground Level:	3,175.0 usft

Wellbore	BHL 2310' FNL & 660' FEL, Sec 30		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	12/31/2009	8.05
			60.19
			48,765

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			179.55

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,467.5	0.00	0.00	8,467.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,218.9	90.17	179.55	8,945.0	-478.9	3.7	12.00	12.00	0.00	179.55	
16,146.9	90.17	179.55	8,925.0	-7,406.6	57.6	0.00	0.00	0.00	0.00	BHL: 2310 FNL & 660

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Jester 19/30 W0AH Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3195.0usft (Original Well Elev)
Site:	Jester 19/30 W0AH Fed Com 1H	North Reference:	Grid
Well:	Sec 19, T23S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL 2310' FNL & 660' FEL, Sec 30		
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
SL: 185 FNL & 710 FEL, Sec 19									
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
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Jester 19/30 W0AH Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3195.0usft (Original Well Elev)
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Well:	Sec 19, T23S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL 2310' FNL & 660' FEL, Sec 30		
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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,467.5	0.00	0.00	8,467.5	0.0	0.0	0.0	0.00	0.00	0.00	
KOP @ 8468										
8,500.0	3.90	179.55	8,500.0	-1.1	0.0	1.1	12.00	12.00	0.00	
8,600.0	15.90	179.55	8,598.3	-18.3	0.1	18.3	12.00	12.00	0.00	
8,700.0	27.90	179.55	8,690.9	-55.5	0.4	55.5	12.00	12.00	0.00	
8,800.0	39.90	179.55	8,773.8	-111.2	0.9	111.2	12.00	12.00	0.00	
8,849.7	45.87	179.55	8,810.2	-145.0	1.1	145.0	12.00	12.00	0.00	
First Take Point: 330' FNL & 709' FEL										
8,900.0	51.90	179.55	8,843.2	-182.8	1.4	182.8	12.00	12.00	0.00	
9,000.0	63.90	179.55	8,896.3	-267.4	2.1	267.4	12.00	12.00	0.00	
9,100.0	75.89	179.55	8,930.6	-361.1	2.8	361.1	12.00	12.00	0.00	
9,200.0	87.89	179.55	8,944.7	-459.9	3.6	459.9	12.00	12.00	0.00	
9,219.0	90.17	179.55	8,945.0	-478.9	3.7	478.9	11.98	11.98	0.00	
LP: 768' FNL & 699' FEL, Sec 19										
9,300.0	90.17	179.55	8,944.8	-559.9	4.4	559.9	0.00	0.00	0.00	
9,400.0	90.17	179.55	8,944.5	-659.9	5.1	659.9	0.00	0.00	0.00	
9,500.0	90.17	179.55	8,944.2	-759.9	5.9	759.9	0.00	0.00	0.00	
9,600.0	90.17	179.55	8,943.9	-859.9	6.7	859.9	0.00	0.00	0.00	
9,700.0	90.17	179.55	8,943.6	-959.9	7.5	959.9	0.00	0.00	0.00	
9,800.0	90.17	179.55	8,943.3	-1,059.9	8.2	1,059.9	0.00	0.00	0.00	
9,900.0	90.17	179.55	8,943.0	-1,159.9	9.0	1,159.9	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Jester, 19/30 W0AH Fed Corn 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3195.0usft (Original Well Elev)
Site:	Jester 19/30 W0AH Fed Corn 1H	North Reference:	Grid
Well:	Sec 19, T23S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FNL & 660' FEL; Sec 30		
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)	
10,000.0	90.17	179.55	8,942.7	-1,259.9	9.8	1,259.9	0.00	0.00	0.00	
10,100.0	90.17	179.55	8,942.5	-1,359.9	10.6	1,359.9	0.00	0.00	0.00	
10,200.0	90.17	179.55	8,942.2	-1,459.9	11.3	1,459.9	0.00	0.00	0.00	
10,300.0	90.17	179.55	8,941.9	-1,559.9	12.1	1,559.9	0.00	0.00	0.00	
10,400.0	90.17	179.55	8,941.6	-1,659.9	12.9	1,659.9	0.00	0.00	0.00	
10,500.0	90.17	179.55	8,941.3	-1,759.9	13.7	1,759.9	0.00	0.00	0.00	
10,600.0	90.17	179.55	8,941.0	-1,859.9	14.5	1,859.9	0.00	0.00	0.00	
10,700.0	90.17	179.55	8,940.7	-1,959.9	15.2	1,959.9	0.00	0.00	0.00	
10,800.0	90.17	179.55	8,940.4	-2,059.9	16.0	2,059.9	0.00	0.00	0.00	
10,900.0	90.17	179.55	8,940.1	-2,159.9	16.8	2,159.9	0.00	0.00	0.00	
11,000.0	90.17	179.55	8,939.9	-2,259.9	17.6	2,259.9	0.00	0.00	0.00	
11,100.0	90.17	179.55	8,939.6	-2,359.9	18.3	2,359.9	0.00	0.00	0.00	
11,200.0	90.17	179.55	8,939.3	-2,459.9	19.1	2,459.9	0.00	0.00	0.00	
11,300.0	90.17	179.55	8,939.0	-2,559.9	19.9	2,559.9	0.00	0.00	0.00	
11,400.0	90.17	179.55	8,938.7	-2,659.9	20.7	2,659.9	0.00	0.00	0.00	
11,500.0	90.17	179.55	8,938.4	-2,759.9	21.5	2,759.9	0.00	0.00	0.00	
11,600.0	90.17	179.55	8,938.1	-2,859.8	22.2	2,859.9	0.00	0.00	0.00	
11,700.0	90.17	179.55	8,937.8	-2,959.8	23.0	2,959.9	0.00	0.00	0.00	
11,800.0	90.17	179.55	8,937.5	-3,059.8	23.8	3,059.9	0.00	0.00	0.00	
11,900.0	90.17	179.55	8,937.3	-3,159.8	24.6	3,159.9	0.00	0.00	0.00	
12,000.0	90.17	179.55	8,937.0	-3,259.8	25.3	3,259.9	0.00	0.00	0.00	
12,100.0	90.17	179.55	8,936.7	-3,359.8	26.1	3,359.9	0.00	0.00	0.00	
12,200.0	90.17	179.55	8,936.4	-3,459.8	26.9	3,459.9	0.00	0.00	0.00	
12,300.0	90.17	179.55	8,936.1	-3,559.8	27.7	3,559.9	0.00	0.00	0.00	
12,400.0	90.17	179.55	8,935.8	-3,659.8	28.5	3,659.9	0.00	0.00	0.00	
12,500.0	90.17	179.55	8,935.5	-3,759.8	29.2	3,759.9	0.00	0.00	0.00	
12,600.0	90.17	179.55	8,935.2	-3,859.8	30.0	3,859.9	0.00	0.00	0.00	
12,700.0	90.17	179.55	8,935.0	-3,959.8	30.8	3,959.9	0.00	0.00	0.00	
12,800.0	90.17	179.55	8,934.7	-4,059.8	31.6	4,059.9	0.00	0.00	0.00	
12,900.0	90.17	179.55	8,934.4	-4,159.8	32.3	4,159.9	0.00	0.00	0.00	
13,000.0	90.17	179.55	8,934.1	-4,259.8	33.1	4,259.9	0.00	0.00	0.00	
13,100.0	90.17	179.55	8,933.8	-4,359.8	33.9	4,359.9	0.00	0.00	0.00	
13,200.0	90.17	179.55	8,933.5	-4,459.8	34.7	4,459.9	0.00	0.00	0.00	
13,300.0	90.17	179.55	8,933.2	-4,559.8	35.4	4,559.9	0.00	0.00	0.00	
13,400.0	90.17	179.55	8,932.9	-4,659.8	36.2	4,659.9	0.00	0.00	0.00	
13,500.0	90.17	179.55	8,932.6	-4,759.8	37.0	4,759.9	0.00	0.00	0.00	
13,600.0	90.17	179.55	8,932.4	-4,859.8	37.8	4,859.9	0.00	0.00	0.00	
13,700.0	90.17	179.55	8,932.1	-4,959.8	38.6	4,959.9	0.00	0.00	0.00	
13,800.0	90.17	179.55	8,931.8	-5,059.8	39.3	5,059.9	0.00	0.00	0.00	
13,900.0	90.17	179.55	8,931.5	-5,159.8	40.1	5,159.9	0.00	0.00	0.00	
14,000.0	90.17	179.55	8,931.2	-5,259.8	40.9	5,259.9	0.00	0.00	0.00	
14,100.0	90.17	179.55	8,930.9	-5,359.8	41.7	5,359.9	0.00	0.00	0.00	
14,200.0	90.17	179.55	8,930.6	-5,459.8	42.4	5,459.9	0.00	0.00	0.00	
14,300.0	90.17	179.55	8,930.3	-5,559.8	43.2	5,559.9	0.00	0.00	0.00	
14,400.0	90.17	179.55	8,930.0	-5,659.8	44.0	5,659.9	0.00	0.00	0.00	
14,500.0	90.17	179.55	8,929.8	-5,759.7	44.8	5,759.9	0.00	0.00	0.00	
14,600.0	90.17	179.55	8,929.5	-5,859.7	45.6	5,859.9	0.00	0.00	0.00	
14,700.0	90.17	179.55	8,929.2	-5,959.7	46.3	5,959.9	0.00	0.00	0.00	
14,800.0	90.17	179.55	8,928.9	-6,059.7	47.1	6,059.9	0.00	0.00	0.00	
14,900.0	90.17	179.55	8,928.6	-6,159.7	47.9	6,159.9	0.00	0.00	0.00	
15,000.0	90.17	179.55	8,928.3	-6,259.7	48.7	6,259.9	0.00	0.00	0.00	
15,100.0	90.17	179.55	8,928.0	-6,359.7	49.4	6,359.9	0.00	0.00	0.00	
15,200.0	90.17	179.55	8,927.7	-6,459.7	50.2	6,459.9	0.00	0.00	0.00	
15,300.0	90.17	179.55	8,927.4	-6,559.7	51.0	6,559.9	0.00	0.00	0.00	

Planning Report

Database:	Hobbs:	Local Co-ordinate Reference:	Site Jester: 19/30 W0AH Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3195.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3195.0usft (Original Well Elev)
Site:	Jester 19/30 W0AH Fed Com 1H	North Reference:	Grid
Well:	Sec 19, T23S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FNL & 660' FEL, Sec 30		
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)	
15,400.0	90.17	179.55	8,927.2	-6,659.7	51.8	6,659.9	0.00	0.00	0.00	
15,500.0	90.17	179.55	8,926.9	-6,759.7	52.6	6,759.9	0.00	0.00	0.00	
15,600.0	90.17	179.55	8,926.6	-6,859.7	53.3	6,859.9	0.00	0.00	0.00	
15,700.0	90.17	179.55	8,926.3	-6,959.7	54.1	6,959.9	0.00	0.00	0.00	
15,800.0	90.17	179.55	8,926.0	-7,059.7	54.9	7,059.9	0.00	0.00	0.00	
15,900.0	90.17	179.55	8,925.7	-7,159.7	55.7	7,159.9	0.00	0.00	0.00	
16,000.0	90.17	179.55	8,925.4	-7,259.7	56.4	7,259.9	0.00	0.00	0.00	
16,100.0	90.17	179.55	8,925.1	-7,359.7	57.2	7,359.9	0.00	0.00	0.00	
16,146.9	90.17	179.55	8,925.0	-7,406.6	57.6	7,406.8	0.00	0.00	0.00	
BHL: 2310 FNL & 660 FEL, Sec 30										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SL: 185 FNL & 710 FEL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	471,761.30	534,253.50	32° 17' 48.983 N	104° 13' 20.919 W	
KOP @ 8468 - plan hits target center - Point	0.00	0.00	8,467.5	0.0	0.0	471,761.30	534,253.50	32° 17' 48.983 N	104° 13' 20.919 W	
First Take Point: 330 FN - plan hits target center - Point	0.00	0.00	8,810.2	-145.0	1.1	471,616.30	534,254.60	32° 17' 47.548 N	104° 13' 20.908 W	
BHL: 2310 FNL & 660 FI - plan hits target center - Point	0.00	0.00	8,925.0	-7,406.6	57.6	464,354.72	534,311.08	32° 16' 35.685 N	104° 13' 20.338 W	
LP: 758 FNL & 699 FEL - plan hits target center - Point	0.00	0.00	8,945.0	-478.9	3.7	471,282.40	534,257.20	32° 17' 44.244 N	104° 13' 20.882 W	

