

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.*5. Lease Serial No.
NMNM56426

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

PAVO MACHO 31 B2EH FED COM 1H **316223**

2. Name of Operator

MEWBOURNE OIL COMPANY

Contact: JACKIE LATHAN

E-Mail: jlathan@mewbourne.com

9. API Well No.

30-015-43784-00-X1

3a. Address

P O BOX 5270
HOBBS, NM 88241

3b. Phone No. (include area code)

Ph: 575-393-5905

10. Field and Pool or Exploratory Area

PALMILLO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 31 T18S R29E SWNW 1980FNL 185FWL

11. County or Parish, State

EDDY COUNTY, NM

12. CHECK THE 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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mewbourne Oil Company has an approved APD for the above well. Mewbourne requests approval to make the following changes:

- 1) Change well name to Pavo Macho 31/32 B2EH Fed Com #1H. - **316223**
- 2) Change BHL to 2310' FNL & 330' FEL, Sec 32, T18S, R29E.
- 3) Change 5 1/2" production csg to 7" production csg & 4 1/2" cemented liner.
- 5) Change cement to suit new plan.
- 6) Change wellhead to multi-bowl type wellhead.

Please see attachments for C-102, wellhead schematic, new drilling plan, casing & cement information.

**SEE ATTACHED FOR
CONDITIONS OF APPROV.****NM OIL CONSERVATION**
ARTESIA DISTRICT**OCT 30 2017****Accepted for record - NMOCD****RECEIVED**

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #383872 verified by the BLM Well Information System

For MEWBOURNE OIL COMPANY, sent to the Carlsbad

Committed to AFMSS for processing by TENILLE ORTIZ on 08/07/2017 (17TO0005SE)

Name (Printed/Typed) ANDREW TAYLOR

Title ENGINEER

Signature (Electronic Submission)

Date 08/07/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By ZOTA STEVENSTitle PETROLEUM ENGINEERDate 10/24/2017

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 Carlsbad

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.

(Instructions on page 2)

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

Additional data for EC transaction #383872 that would not fit on the form

32. Additional remarks, continued

Please contact Andy Taylor with any questions.

Mewbourne Oil Company, Pavo Macho 31/32 B2EH Fed Com #1H
 Sec 31, T18S, R29E
 SL: 1980' FNL & 185' FWL, Sec 31
 BHL: 2310' FNL & 330' FEL, Sec 32

1. Geologic Formations

TVD of target	7696'	Pilot hole depth	NA
MD at TD:	17170'	Deepest expected fresh water:	200'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler			
Top of Salt			
Base of Salt	710		
Yates	860		
Seven Rivers	1230		
Queen	1800		
Grayburg	2150		
San Andres	2645		
Bone Spring	3385	Oil/Gas	
1 st Bone Spring Sand	6535		
2 nd Bone Spring Sand	7295	Target Zone	
3 rd Bone Spring Sand			
Abo			
Wolfcamp		Will Not Penetrate	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Company, Pavo Macho 31/32 B2EH Fed Com #1H
Sec 31, T18S, R29E
SL: 1980' FNL & 185' FWL, Sec 31
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2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0'	260'	13.375"	48	H40	STC	3.96	8.91	16.16
12.25"	0'	1125'	9.625"	36	J55	LTC	3.45	6.02	11.19
8.75"	0'	7831'	7"	26	P110	LTC	2.12	2.70	3.11
6.125"	7088'	17170'	4.5"	13.5	P110	LTC	2.67	3.10	2.48
BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet				

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Pavo Macho 31/32 B2EH Fed Com #1H
Sec 31, T18S, R29E
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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	275	14.8	1.34	6.3	8	Class C + Retarder
Inter.	100	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	395	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	410	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	925'	25%
Liner	7088'	25%

Mewbourne Oil Company, Pavo Macho 31/32 B2EH Fed Com #1H
 Sec 31, T18S, R29E
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4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	X	1500#
			Blind Ram	X	3000#
			Pipe Ram	X	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Provide description here See attached schematic.

Mewbourne Oil Company, Pavo Macho 31/32 B2EH Fed Com #1H

Sec 31, T18S, R29E

SL: 1980' FNL & 185' FWL, Sec 31

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	415	FW Gel	8.6-8.8	28-34	N/C
415	1125	Saturated Brine	10.0	28-34	N/C
1125	7088	Cut Brine	8.6-9.5	28-34	N/C
7088	17170	OBM	8.6-9.7	30-40	<20cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (7088') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	Gamma Ray	7088'(KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Company, Pavo Macho 31/32 B2EH Fed Com #1H

Sec 31, T18S, R29E

SL: 1980' FNL & 185' FWL, Sec 31

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4001 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
	H2S is present
X	H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe.

Will be pre-setting casing? If yes, describe.

Attachments

___ Directional Plan

___ Other, describe

Mewbourne Oil Company

Eddy County, New Mexico

Pavo Macho 31/32 B2EH Fed Com #1H

Sec 31, T 18S, R29E

SL: 1980' FNL & 185' FWL, Sec 31

BHL: 2310' FNL & 330' FEL, Sec 32

Plan: Design #1

Standard Planning Report

15 December, 2015

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Pavo Macho 31/32 B2EH Fed Com #1H
Well: Sec 31, T 18S, R29E
Wellbore: BHL: 2310' FNL & 330' FEL, Sec 32
Design: Design #1

Local Co-ordinate Reference: Site Pavo Macho 31/32 B2EH Fed Com #1H
TVD Reference: WELL @ 3432.0usft (Original Well Elev)
MD Reference: WELL @ 3432.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Pavo Macho 31/32 B2EH Fed Com #1H				
Site Position:		Northing:	620,469.00 usft	Latitude:	32° 42' 20.112 N
From:	Map	Easting:	565,384.00 usft	Longitude:	104° 7' 14.772 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	Sec 31, T 18S, R29E					
Well Position	+N/-S	0.0 usft	Northing:	620,469.00 usft	Latitude:	32° 42' 20.112 N
	+E/-W	0.0 usft	Easting:	565,384.00 usft	Longitude:	104° 7' 14.772 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,432.0 usft	Ground Level:	3,405.0 usft

Wellbore	BHL: 2310' FNL & 330' FEL, Sec 32				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	8.04	60.59	49,021

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	91.71

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	
7,087.5	0.00	0.00	7,087.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,830.9	89.20	91.71	7,565.0	-14.1	470.6	12.00	12.00	0.00	91.71	
17,169.4	89.20	91.71	7,696.0	-293.0	9,804.0	0.00	0.00	0.00	0.00	BHL: 2310' FNL & 330'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Pavo Macho 31/32 B2EH Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3432.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3432.0usft (Original Well Elev)
Site:	Pavo Macho 31/32 B2EH Fed Com #1H	North Reference:	Grid
Well:	Sec 31, T 18S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 2310' FNL & 330' FEL, Sec 32		
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: 1980' FNL & 185' FWL, Sec 31									
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
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico
 Site: Pavo Macho 31/32 B2EH Fed Com #1H
 Well: Sec 31, T 18S, R29E
 Wellbore: BHL: 2310' FNL & 330' FEL, Sec 32
 Design: Design #1

Local Co-ordinate Reference: Site Pavo Macho 31/32 B2EH Fed Com #1H
 TVD Reference: WELL @ 3432.0usft (Original Well Elev)
 MD Reference: WELL @ 3432.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
7,087.5	0.00	0.00	7,087.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 7088'									
7,100.0	1.50	91.71	7,100.0	0.0	0.2	0.2	12.00	12.00	0.00
7,200.0	13.49	91.71	7,199.0	-0.4	13.2	13.2	12.00	12.00	0.00
7,300.0	25.49	91.71	7,293.1	-1.4	46.5	46.5	12.00	12.00	0.00
7,400.0	37.49	91.71	7,378.2	-2.9	98.6	98.6	12.00	12.00	0.00
7,469.9	45.88	91.71	7,430.3	-4.3	145.0	145.1	12.00	12.00	0.00
First Take Point: 1985' FNL & 330' FWL, Sec 31									
7,500.0	49.49	91.71	7,450.6	-5.0	167.3	167.3	12.00	12.00	0.00
7,600.0	61.49	91.71	7,507.1	-7.5	249.5	249.6	12.00	12.00	0.00
7,700.0	73.49	91.71	7,545.4	-10.2	341.6	341.8	12.00	12.00	0.00
7,800.0	85.49	91.71	7,563.6	-13.1	439.7	439.9	12.00	12.00	0.00
7,830.9	89.20	91.71	7,565.0	-14.1	470.6	470.8	12.00	12.00	0.00
LP: 1995' FNL & 655' FWL, Sec 31									
7,900.0	89.20	91.71	7,566.0	-16.1	539.7	539.9	0.00	0.00	0.00
8,000.0	89.20	91.71	7,567.4	-19.1	639.6	639.9	0.00	0.00	0.00
8,100.0	89.20	91.71	7,568.8	-22.1	739.5	739.9	0.00	0.00	0.00
8,200.0	89.20	91.71	7,570.2	-25.1	839.5	839.9	0.00	0.00	0.00
8,300.0	89.20	91.71	7,571.6	-28.1	939.4	939.9	0.00	0.00	0.00
8,400.0	89.20	91.71	7,573.0	-31.1	1,039.4	1,039.8	0.00	0.00	0.00
8,500.0	89.20	91.71	7,574.4	-34.0	1,139.3	1,139.8	0.00	0.00	0.00
8,600.0	89.20	91.71	7,575.8	-37.0	1,239.3	1,239.8	0.00	0.00	0.00
8,700.0	89.20	91.71	7,577.2	-40.0	1,339.2	1,339.8	0.00	0.00	0.00
8,800.0	89.20	91.71	7,578.6	-43.0	1,439.2	1,439.8	0.00	0.00	0.00
8,900.0	89.20	91.71	7,580.0	-46.0	1,539.1	1,539.8	0.00	0.00	0.00
9,000.0	89.20	91.71	7,581.4	-49.0	1,639.1	1,639.8	0.00	0.00	0.00
9,100.0	89.20	91.71	7,582.8	-52.0	1,739.0	1,739.8	0.00	0.00	0.00
9,200.0	89.20	91.71	7,584.2	-55.0	1,838.9	1,839.8	0.00	0.00	0.00
9,300.0	89.20	91.71	7,585.6	-57.9	1,938.9	1,939.8	0.00	0.00	0.00
9,400.0	89.20	91.71	7,587.0	-60.9	2,038.8	2,039.7	0.00	0.00	0.00
9,500.0	89.20	91.71	7,588.4	-63.9	2,138.8	2,139.7	0.00	0.00	0.00
9,600.0	89.20	91.71	7,589.8	-66.9	2,238.7	2,239.7	0.00	0.00	0.00
9,700.0	89.20	91.71	7,591.2	-69.9	2,338.7	2,339.7	0.00	0.00	0.00
9,800.0	89.20	91.71	7,592.6	-72.9	2,438.6	2,439.7	0.00	0.00	0.00
9,900.0	89.20	91.71	7,594.0	-75.9	2,538.6	2,539.7	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Pavo Macho 31/32 B2EH Fed Com #1H
Well: Sec 31, T 18S, R29E
Wellbore: BHL: 2310' FNL & 330' FEL, Sec 32
Design: Design #1

Local Co-ordinate Reference: Site Pavo Macho 31/32 B2EH Fed Com #1H
TVD Reference: WELL @ 3432.0usft (Original Well Elev)
MD Reference: WELL @ 3432.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	89.20	91.71	7,595.4	-78.9	2,638.5	2,639.7	0.00	0.00	0.00
10,100.0	89.20	91.71	7,596.8	-81.8	2,738.5	2,739.7	0.00	0.00	0.00
10,200.0	89.20	91.71	7,598.2	-84.8	2,838.4	2,839.7	0.00	0.00	0.00
10,300.0	89.20	91.71	7,599.6	-87.8	2,938.3	2,939.7	0.00	0.00	0.00
10,400.0	89.20	91.71	7,601.0	-90.8	3,038.3	3,039.6	0.00	0.00	0.00
10,500.0	89.20	91.71	7,602.4	-93.8	3,138.2	3,139.6	0.00	0.00	0.00
10,600.0	89.20	91.71	7,603.8	-96.8	3,238.2	3,239.6	0.00	0.00	0.00
10,700.0	89.20	91.71	7,605.2	-99.8	3,338.1	3,339.6	0.00	0.00	0.00
10,800.0	89.20	91.71	7,606.7	-102.7	3,438.1	3,439.6	0.00	0.00	0.00
10,900.0	89.20	91.71	7,608.1	-105.7	3,538.0	3,539.6	0.00	0.00	0.00
11,000.0	89.20	91.71	7,609.5	-108.7	3,638.0	3,639.6	0.00	0.00	0.00
11,100.0	89.20	91.71	7,610.9	-111.7	3,737.9	3,739.6	0.00	0.00	0.00
11,200.0	89.20	91.71	7,612.3	-114.7	3,837.9	3,839.6	0.00	0.00	0.00
11,300.0	89.20	91.71	7,613.7	-117.7	3,937.8	3,939.6	0.00	0.00	0.00
11,400.0	89.20	91.71	7,615.1	-120.7	4,037.7	4,039.5	0.00	0.00	0.00
11,500.0	89.20	91.71	7,616.5	-123.7	4,137.7	4,139.5	0.00	0.00	0.00
11,600.0	89.20	91.71	7,617.9	-126.6	4,237.6	4,239.5	0.00	0.00	0.00
11,700.0	89.20	91.71	7,619.3	-129.6	4,337.6	4,339.5	0.00	0.00	0.00
11,800.0	89.20	91.71	7,620.7	-132.6	4,437.5	4,439.5	0.00	0.00	0.00
11,900.0	89.20	91.71	7,622.1	-135.6	4,537.5	4,539.5	0.00	0.00	0.00
12,000.0	89.20	91.71	7,623.5	-138.6	4,637.4	4,639.5	0.00	0.00	0.00
12,100.0	89.20	91.71	7,624.9	-141.6	4,737.4	4,739.5	0.00	0.00	0.00
12,200.0	89.20	91.71	7,626.3	-144.6	4,837.3	4,839.5	0.00	0.00	0.00
12,300.0	89.20	91.71	7,627.7	-147.6	4,937.3	4,939.5	0.00	0.00	0.00
12,400.0	89.20	91.71	7,629.1	-150.5	5,037.2	5,039.5	0.00	0.00	0.00
12,500.0	89.20	91.71	7,630.5	-153.5	5,137.1	5,139.4	0.00	0.00	0.00
12,600.0	89.20	91.71	7,631.9	-156.5	5,237.1	5,239.4	0.00	0.00	0.00
12,700.0	89.20	91.71	7,633.3	-159.5	5,337.0	5,339.4	0.00	0.00	0.00
12,800.0	89.20	91.71	7,634.7	-162.5	5,437.0	5,439.4	0.00	0.00	0.00
12,900.0	89.20	91.71	7,636.1	-165.5	5,536.9	5,539.4	0.00	0.00	0.00
13,000.0	89.20	91.71	7,637.5	-168.5	5,636.9	5,639.4	0.00	0.00	0.00
13,100.0	89.20	91.71	7,638.9	-171.4	5,736.8	5,739.4	0.00	0.00	0.00
13,200.0	89.20	91.71	7,640.3	-174.4	5,836.8	5,839.4	0.00	0.00	0.00
13,300.0	89.20	91.71	7,641.7	-177.4	5,936.7	5,939.4	0.00	0.00	0.00
13,400.0	89.20	91.71	7,643.1	-180.4	6,036.7	6,039.4	0.00	0.00	0.00
13,500.0	89.20	91.71	7,644.5	-183.4	6,136.6	6,139.3	0.00	0.00	0.00
13,600.0	89.20	91.71	7,645.9	-186.4	6,236.5	6,239.3	0.00	0.00	0.00
13,700.0	89.20	91.71	7,647.3	-189.4	6,336.5	6,339.3	0.00	0.00	0.00
13,800.0	89.20	91.71	7,648.7	-192.4	6,436.4	6,439.3	0.00	0.00	0.00
13,900.0	89.20	91.71	7,650.1	-195.3	6,536.4	6,539.3	0.00	0.00	0.00
14,000.0	89.20	91.71	7,651.5	-198.3	6,636.3	6,639.3	0.00	0.00	0.00
14,100.0	89.20	91.71	7,652.9	-201.3	6,736.3	6,739.3	0.00	0.00	0.00
14,200.0	89.20	91.71	7,654.3	-204.3	6,836.2	6,839.3	0.00	0.00	0.00
14,300.0	89.20	91.71	7,655.7	-207.3	6,936.2	6,939.3	0.00	0.00	0.00
14,400.0	89.20	91.71	7,657.2	-210.3	7,036.1	7,039.3	0.00	0.00	0.00
14,500.0	89.20	91.71	7,658.6	-213.3	7,136.1	7,139.2	0.00	0.00	0.00
14,600.0	89.20	91.71	7,660.0	-216.3	7,236.0	7,239.2	0.00	0.00	0.00
14,700.0	89.20	91.71	7,661.4	-219.2	7,335.9	7,339.2	0.00	0.00	0.00
14,800.0	89.20	91.71	7,662.8	-222.2	7,435.9	7,439.2	0.00	0.00	0.00
14,900.0	89.20	91.71	7,664.2	-225.2	7,535.8	7,539.2	0.00	0.00	0.00
15,000.0	89.20	91.71	7,665.6	-228.2	7,635.8	7,639.2	0.00	0.00	0.00
15,100.0	89.20	91.71	7,667.0	-231.2	7,735.7	7,739.2	0.00	0.00	0.00
15,200.0	89.20	91.71	7,668.4	-234.2	7,835.7	7,839.2	0.00	0.00	0.00
15,300.0	89.20	91.71	7,669.8	-237.2	7,935.6	7,939.2	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Pavo Macho 31/32 B2EH Fed Com #1H
Well: Sec 31, T 18S, R29E
Wellbore: BHL: 2310' FNL & 330' FEL, Sec 32
Design: Design #1

Local Co-ordinate Reference: Site Pavo Macho 31/32 B2EH Fed Com #1H
TVD Reference: WELL @ 3432.0usft (Original Well Elev)
MD Reference: WELL @ 3432.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,400.0	89.20	91.71	7,671.2	-240.1	8,035.6	8,039.2	0.00	0.00	0.00
15,500.0	89.20	91.71	7,672.6	-243.1	8,135.5	8,139.1	0.00	0.00	0.00
15,600.0	89.20	91.71	7,674.0	-246.1	8,235.5	8,239.1	0.00	0.00	0.00
15,700.0	89.20	91.71	7,675.4	-249.1	8,335.4	8,339.1	0.00	0.00	0.00
15,800.0	89.20	91.71	7,676.8	-252.1	8,435.4	8,439.1	0.00	0.00	0.00
15,900.0	89.20	91.71	7,678.2	-255.1	8,535.3	8,539.1	0.00	0.00	0.00
16,000.0	89.20	91.71	7,679.6	-258.1	8,635.2	8,639.1	0.00	0.00	0.00
16,100.0	89.20	91.71	7,681.0	-261.1	8,735.2	8,739.1	0.00	0.00	0.00
16,200.0	89.20	91.71	7,682.4	-264.0	8,835.1	8,839.1	0.00	0.00	0.00
16,300.0	89.20	91.71	7,683.8	-267.0	8,935.1	8,939.1	0.00	0.00	0.00
16,400.0	89.20	91.71	7,685.2	-270.0	9,035.0	9,039.1	0.00	0.00	0.00
16,500.0	89.20	91.71	7,686.6	-273.0	9,135.0	9,139.0	0.00	0.00	0.00
16,600.0	89.20	91.71	7,688.0	-276.0	9,234.9	9,239.0	0.00	0.00	0.00
16,700.0	89.20	91.71	7,689.4	-279.0	9,334.9	9,339.0	0.00	0.00	0.00
16,800.0	89.20	91.71	7,690.8	-282.0	9,434.8	9,439.0	0.00	0.00	0.00
16,900.0	89.20	91.71	7,692.2	-285.0	9,534.8	9,539.0	0.00	0.00	0.00
17,000.0	89.20	91.71	7,693.6	-287.9	9,634.7	9,639.0	0.00	0.00	0.00
17,100.0	89.20	91.71	7,695.0	-290.9	9,734.6	9,739.0	0.00	0.00	0.00
17,169.4	89.20	91.71	7,696.0	-293.0	9,804.0	9,808.4	0.00	0.00	0.00

BHL: 2310' FNL & 330' FEL, Sec 32

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
SL: 1980' FNL & 185' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	620,469.00	565,384.00	32° 42' 20.112 N	104° 7' 14.772 W
KOP @ 7088' - plan hits target center - Point	0.00	0.00	7,087.5	0.0	0.0	620,469.00	565,384.00	32° 42' 20.112 N	104° 7' 14.772 W
First Take Point: 1985' F - plan hits target center - Point	0.00	0.00	7,430.3	-4.3	145.0	620,464.67	565,529.00	32° 42' 20.067 N	104° 7' 13.075 W
LP: 1995' FNL & 655' FV - plan hits target center - Point	0.00	0.00	7,565.0	-14.1	470.6	620,454.90	565,854.60	32° 42' 19.964 N	104° 7' 9.265 W
BHL: 2310' FNL & 330' F - plan hits target center - Point	0.00	0.00	7,696.0	-293.0	9,804.0	620,176.00	575,188.00	32° 42' 17.004 N	104° 5' 20.039 W

Pavo Macho 31/32 B2EH Fed Com #1H

