

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD Rec'd: 10/09/2020

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.
NMNM25953

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
EL JEFE 35/2 W1DM FED COM 2H

9. API Well No.

10. Field and Pool or Exploratory Area
SALT DRAW11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
MEWBOURNE OIL COMPANYContact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com3a. Address
P O BOX 5270
HOBBS, NM 882413b. Phone No. (include area code)
Ph: 575-393-5905

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

Sec 35 T24S R28E NWNW 455FNL 1250FWL
32.180019 N Lat, 104.062564 W Lon**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 requests approval to make the following changes to the approved APD:

- 1) Change well name to El Jefe 35/2 W1DM Fed Com #2H
- 2) Change SHL to 455' FNL & 1250' FWL, Sec 35, T24S, R28E
- 3) Change BHL to 330' FSL & 330' FWL, Sec 2, T25S, R28E
- 3) Change casing & cement design as detailed in attachment.

See attachments for C-102, drilling program & directional plan
Please contact Andy Taylor with any questions.

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

**Electronic Submission #527383 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by JUANA MEDRANO on 08/27/2020 (20JM0105SE)**

Name (Printed/Typed) ANDY TAYLOR

Title ENGINEER

Signature (Electronic Submission)

Date 08/26/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By OLABODE AJIBOLA

Title PETROLEUM ENGINEER

Date 10/09/2020

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 ****Surface casing must be set 25' below top of Rustler Anhydrite in order
to seal off protectable water

KP 11/5/2020 GEO Review

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 30-015-47333	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp Gas
⁴ Property Code 328935	⁵ Property Name EL JEFE 35/2 W1DM FED COM	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 2H
		⁹ Elevation 2961'

¹⁰ Surface Location

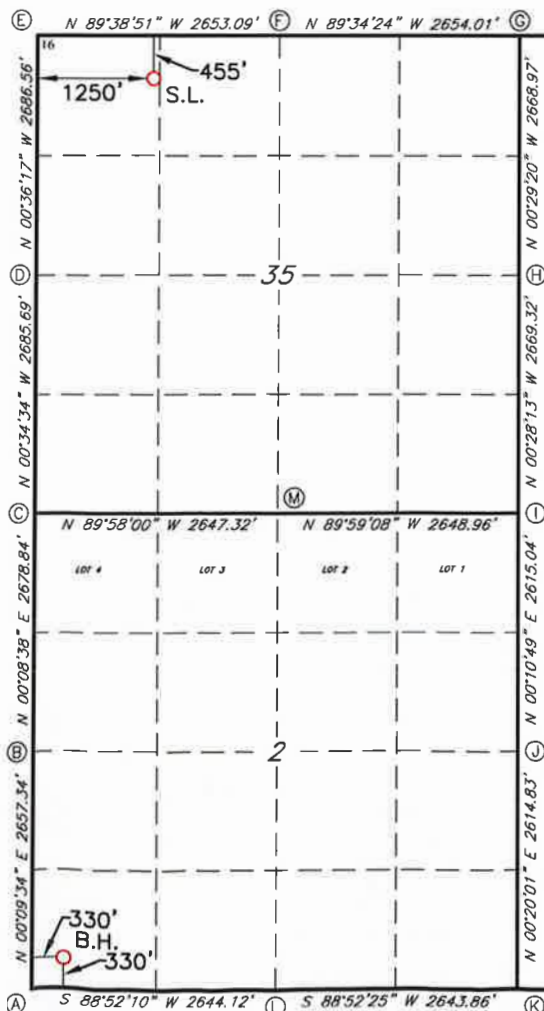
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	24S	28E		455	NORTH	1250	WEST	EDDY

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
M	2	25S	28E		330	SOUTH	330	WEST	EDDY

¹² Dedicated Acres 320 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION
N: 429330.9 - E: 625108.4
LAT: 32.1800186° N
LONG: 104.0625642° W

BOTTOM HOLE
N: 419424.1 - E: 624226.0
LAT: 32.1527919° N
LONG: 104.0654962° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1940"
N: 419087.7 - E: 623895.2

B: FOUND BRASS CAP "1940"
N: 421744.4 - E: 623902.6

C: FOUND BRASS CAP "1940"
N: 424422.7 - E: 623909.3

D: FOUND BRASS CAP "1942"
N: 427107.6 - E: 623882.3

E: FOUND BRASS CAP "1942"
N: 429793.4 - E: 623853.9

F: FOUND BRASS CAP "1942"
N: 429777.1 - E: 626506.4

G: FOUND BRASS CAP "1942"
N: 429757.4 - E: 629159.7

H: FOUND BRASS CAP "1942"
N: 427089.1 - E: 629182.5

I: FOUND BRASS CAP "1940"
N: 424420.5 - E: 629204.4

J: FOUND BRASS CAP "1940"
N: 421806.0 - E: 629196.2

K: FOUND BRASS CAP "1940"
N: 419191.8 - E: 629181.0

L: FOUND BRASS CAP "1940"
N: 419139.9 - E: 626538.2

M: FOUND BRASS CAP "1940"
N: 424421.1 - E: 626556.0

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.

Andy Taylor 8/25/2020
Signature Date

Andy Taylor
Printed Name

ataylor@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.

10-03-2019

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



Job No.: LS19101007

Revisions to Operator-Submitted EC Data for Sundry Notice #527383

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM25953	NMNM25953
Agreement:		
Operator:	MEWBOURNE OIL COMPANY PO BOX 5270 HOBBS, NM 88241 Ph: 575-393-5905	MEWBOURNE OIL COMPANY P O BOX 5270 HOBBS, NM 88241 Ph: 575.393.5905
Admin Contact:	JACKIE LATHAN AUTHORIZED REPRESENTATIVE E-Mail: jlathan@mewbourne.com Ph: 575-393-5905	JACKIE LATHAN REGULATORY E-Mail: jlathan@mewbourne.com Ph: 575-393-5905
Tech Contact:	ANDY TAYLOR ENGINEER E-Mail: ataylor@mewbourne.com Ph: 575-393-5905	ANDY TAYLOR ENGINEER E-Mail: ataylor@mewbourne.com Ph: 575-441-8396
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	49554	SALT DRAW
Well/Facility:	WILLOW LAKE 35 W2DM 2H Sec 35 T24S R28E Mer NMP NWNW 205FNL 690FWL	EL JEFE 35/2 W1DM FED COM 2H Sec 35 T24S R28E NWNW 455FNL 1250FWL 32.180019 N Lat, 104.062564 W Lon

PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA OIL PRODUCERS LLC
LEASE NO.:	NMNM025953
WELL NAME & NO.:	EL JEFE 35-2 W1DM FED COM 2H
SURFACE HOLE FOOTAGE:	455'/N & 1250'/W
BOTTOM HOLE FOOTAGE:	330'/S & 330'/W
LOCATION:	Section 35, T.24 S., R.28 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☐ Medium	☒ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **500 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength,

whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing which shall be set at approximately **2530** feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **7** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Excess cement calculates to 4%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
4. The minimum required fill of cement behind the **4-1/2** inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'**
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

OTA10092020

Mewbourne Oil Company, El Jefe 35/2 W1DM Fed Com #2H
Sec 35, T24S, R28E
SL: 455' FNL & 1250' FWL, Sec 35
BHL: 330' FSL & 330' FWL, Sec 2

1. Geologic Formations

TVD of target	9819'	Pilot hole depth	NA
MD at TD:	19,985'	Deepest expected fresh water:	50'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler			
Top of Salt	1100		
Castile			
Base of Salt	2410		
Yates			
Capitan			
Lamar	2610	Oil	
Bell Canyon	2640		
Cherry Canyon	3500		
Manzanita Marker	3625		
Brushy Canyon			
Bone Spring	6340	Oil/Gas	
1 st Bone Spring Sand	7190		
2 nd Bone Spring Sand	8090		
3 rd Bone Spring Sand	9150		
Abo			
Wolfcamp	9520	Target Zone	
Devonian			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company, El Jefe 35/2 W1DM Fed Com #2H
Sec 35, T24S, R28E
SL: 455' FNL & 1250' FWL, Sec 35
BHL: 330' FSL & 330' FWL, Sec 2

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	500'	13.375"	48	H40	STC	3.48	7.83	13.42	22.54
12.25"	0'	2530'	9.625"	36	J55	LTC	1.54	2.68	4.97	6.19
8.75"	0'	10,000'	7"	26	HCP110	LTC	1.56	2.10	2.67	3.19
6.125"	9,300'	19,985'	4.5"	13.5	P110	LTC	2.09	2.43	2.34	2.93
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	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?	Y
If yes, are there two strings cemented to surface?	Y
(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, El Jefe 35/2 W1DM Fed Com #2H
Sec 35, T24S, R28E
SL: 455' FNL & 1250' FWL, Sec 35
BHL: 330' FSL & 330' FWL, Sec 2

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	205	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
Inter.	365	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. Stg 1	345	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
ECP/DV Tool @ 3625'						
Prod. Stg 2	60	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	430	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	2330'	25%
Liner	9300'	25%

Mewbourne Oil Company, El Jefe 35/2 W1DM Fed Com #2H
Sec 35, T24S, R28E
SL: 455' FNL & 1250' FWL, Sec 35
BHL: 330' FSL & 330' FWL, Sec 2

4. Pressure Control Equipment

N	Variance: None
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BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	5M	Annular	X	2500#
			Blind Ram	X	5000#
			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, El Jefe 35/2 W1DM Fed Com #2H
Sec 35, T24S, R28E
SL: 455' FNL & 1250' FWL, Sec 35
BHL: 330' FSL & 330' FWL, Sec 2

5. Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	500'	FW Gel	8.6-8.8	28-34	N/C
500'	2530'	Saturated Brine	10.0	28-34	N/C
2530'	9784'	Cut Brine	8.6-9.5	28-34	N/C
9784'	9819'	OBM	10.0-12.0	30-40	<10cc

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?	Pason/PVT/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (9300') 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	9300' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Company, El Jefe 35/2 W1DM Fed Com #2H
Sec 35, T24S, R28E
SL: 455' FNL & 1250' FWL, Sec 35
BHL: 330' FSL & 330' FWL, Sec 2

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6127 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. **Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.**

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 NAD 83

El Jefe 35/2 W1DM Fed Com #2H

Sec 35, T24S, R28E

SHL: 455' FNL & 1250' FWL, Sec 35

BHL: 330' FSL & 330' FWL, Sec 2

Plan: Design #1

Standard Planning Report

24 August, 2020

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site El Jefe 35/2 W1DM Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2989.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2989.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1DM Fed Com #2H	North Reference:	Grid
Well:	Sec 35, T24S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FWL, Sec 2		
Design:	Design #1		

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

Site	El Jefe 35/2 W1DM Fed Com #2H			
Site Position:		Northing:	429,331.00 usft	Latitude: 32.1800189
From:	Map	Easting:	625,108.00 usft	Longitude: -104.0625656
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.14 °

Well	Sec 35, T24S, R28E			
Well Position	+N/-S	0.0 usft	Northing:	429,331.00 usft
	+E/-W	0.0 usft	Easting:	625,108.00 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	2,989.0 usft
			Ground Level:	2,961.0 usft

Wellbore	BHL: 330' FSL & 330' FWL, Sec 2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.37	59.98	48,160

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	185.09

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	
550.0	0.00	0.00	550.0	0.0	0.0	0.00	0.00	0.00	0.00	
879.1	6.58	297.79	878.3	8.8	-16.7	2.00	2.00	0.00	297.79	
8,971.7	6.58	297.79	8,917.7	441.2	-837.3	0.00	0.00	0.00	0.00	
9,300.8	0.00	0.00	9,246.0	450.0	-854.0	2.00	-2.00	0.00	180.00	KOP: 10' FNL & 400' I
10,200.8	90.00	180.15	9,819.0	-123.0	-855.5	10.00	10.00	0.00	-179.85	
19,984.9	90.00	180.15	9,819.0	-9,907.0	-882.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 330'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site El Jefe 35/2 W1DM Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2989.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2989.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1DM Fed Com #2H	North Reference:	Grid
Well:	Sec 35, T24S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FWL, Sec 2		
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: 455' FNL & 1250' FWL (35)									
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
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	1.00	297.79	600.0	0.2	-0.4	-0.2	2.00	2.00	0.00
700.0	3.00	297.79	699.9	1.8	-3.5	-1.5	2.00	2.00	0.00
800.0	5.00	297.79	799.7	5.1	-9.6	-4.2	2.00	2.00	0.00
879.1	6.58	297.79	878.3	8.8	-16.7	-7.3	2.00	2.00	0.00
900.0	6.58	297.79	899.1	9.9	-18.8	-8.2	0.00	0.00	0.00
1,000.0	6.58	297.79	998.5	15.3	-29.0	-12.6	0.00	0.00	0.00
1,100.0	6.58	297.79	1,097.8	20.6	-39.1	-17.1	0.00	0.00	0.00
1,200.0	6.58	297.79	1,197.2	25.9	-49.2	-21.5	0.00	0.00	0.00
1,300.0	6.58	297.79	1,296.5	31.3	-59.4	-25.9	0.00	0.00	0.00
1,400.0	6.58	297.79	1,395.8	36.6	-69.5	-30.3	0.00	0.00	0.00
1,500.0	6.58	297.79	1,495.2	42.0	-79.7	-34.7	0.00	0.00	0.00
1,600.0	6.58	297.79	1,594.5	47.3	-89.8	-39.2	0.00	0.00	0.00
1,700.0	6.58	297.79	1,693.9	52.7	-99.9	-43.6	0.00	0.00	0.00
1,800.0	6.58	297.79	1,793.2	58.0	-110.1	-48.0	0.00	0.00	0.00
1,900.0	6.58	297.79	1,892.5	63.3	-120.2	-52.4	0.00	0.00	0.00
2,000.0	6.58	297.79	1,991.9	68.7	-130.4	-56.9	0.00	0.00	0.00
2,100.0	6.58	297.79	2,091.2	74.0	-140.5	-61.3	0.00	0.00	0.00
2,200.0	6.58	297.79	2,190.6	79.4	-150.6	-65.7	0.00	0.00	0.00
2,300.0	6.58	297.79	2,289.9	84.7	-160.8	-70.1	0.00	0.00	0.00
2,400.0	6.58	297.79	2,389.3	90.1	-170.9	-74.6	0.00	0.00	0.00
2,500.0	6.58	297.79	2,488.6	95.4	-181.1	-79.0	0.00	0.00	0.00
2,600.0	6.58	297.79	2,587.9	100.8	-191.2	-83.4	0.00	0.00	0.00
2,700.0	6.58	297.79	2,687.3	106.1	-201.3	-87.8	0.00	0.00	0.00
2,800.0	6.58	297.79	2,786.6	111.4	-211.5	-92.2	0.00	0.00	0.00
2,900.0	6.58	297.79	2,886.0	116.8	-221.6	-96.7	0.00	0.00	0.00
3,000.0	6.58	297.79	2,985.3	122.1	-231.8	-101.1	0.00	0.00	0.00
3,100.0	6.58	297.79	3,084.6	127.5	-241.9	-105.5	0.00	0.00	0.00
3,200.0	6.58	297.79	3,184.0	132.8	-252.0	-109.9	0.00	0.00	0.00
3,300.0	6.58	297.79	3,283.3	138.2	-262.2	-114.4	0.00	0.00	0.00
3,400.0	6.58	297.79	3,382.7	143.5	-272.3	-118.8	0.00	0.00	0.00
3,500.0	6.58	297.79	3,482.0	148.8	-282.5	-123.2	0.00	0.00	0.00
3,600.0	6.58	297.79	3,581.3	154.2	-292.6	-127.6	0.00	0.00	0.00
3,700.0	6.58	297.79	3,680.7	159.5	-302.7	-132.1	0.00	0.00	0.00
3,800.0	6.58	297.79	3,780.0	164.9	-312.9	-136.5	0.00	0.00	0.00
3,900.0	6.58	297.79	3,879.4	170.2	-323.0	-140.9	0.00	0.00	0.00
4,000.0	6.58	297.79	3,978.7	175.6	-333.2	-145.3	0.00	0.00	0.00
4,100.0	6.58	297.79	4,078.1	180.9	-343.3	-149.7	0.00	0.00	0.00
4,200.0	6.58	297.79	4,177.4	186.2	-353.4	-154.2	0.00	0.00	0.00
4,300.0	6.58	297.79	4,276.7	191.6	-363.6	-158.6	0.00	0.00	0.00
4,400.0	6.58	297.79	4,376.1	196.9	-373.7	-163.0	0.00	0.00	0.00
4,500.0	6.58	297.79	4,475.4	202.3	-383.9	-167.4	0.00	0.00	0.00
4,600.0	6.58	297.79	4,574.8	207.6	-394.0	-171.9	0.00	0.00	0.00
4,700.0	6.58	297.79	4,674.1	213.0	-404.1	-176.3	0.00	0.00	0.00
4,800.0	6.58	297.79	4,773.4	218.3	-414.3	-180.7	0.00	0.00	0.00
4,900.0	6.58	297.79	4,872.8	223.6	-424.4	-185.1	0.00	0.00	0.00
5,000.0	6.58	297.79	4,972.1	229.0	-434.6	-189.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site El Jefe 35/2 W1DM Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2989.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2989.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1DM Fed Com #2H	North Reference:	Grid
Well:	Sec 35, T24S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FWL, Sec 2		
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	6.58	297.79	5,071.5	234.3	-444.7	-194.0	0.00	0.00	0.00
5,200.0	6.58	297.79	5,170.8	239.7	-454.8	-198.4	0.00	0.00	0.00
5,300.0	6.58	297.79	5,270.1	245.0	-465.0	-202.8	0.00	0.00	0.00
5,400.0	6.58	297.79	5,369.5	250.4	-475.1	-207.2	0.00	0.00	0.00
5,500.0	6.58	297.79	5,468.8	255.7	-485.3	-211.7	0.00	0.00	0.00
5,600.0	6.58	297.79	5,568.2	261.0	-495.4	-216.1	0.00	0.00	0.00
5,700.0	6.58	297.79	5,667.5	266.4	-505.5	-220.5	0.00	0.00	0.00
5,800.0	6.58	297.79	5,766.8	271.7	-515.7	-224.9	0.00	0.00	0.00
5,900.0	6.58	297.79	5,866.2	277.1	-525.8	-229.4	0.00	0.00	0.00
6,000.0	6.58	297.79	5,965.5	282.4	-536.0	-233.8	0.00	0.00	0.00
6,100.0	6.58	297.79	6,064.9	287.8	-546.1	-238.2	0.00	0.00	0.00
6,200.0	6.58	297.79	6,164.2	293.1	-556.2	-242.6	0.00	0.00	0.00
6,300.0	6.58	297.79	6,263.6	298.4	-566.4	-247.0	0.00	0.00	0.00
6,400.0	6.58	297.79	6,362.9	303.8	-576.5	-251.5	0.00	0.00	0.00
6,500.0	6.58	297.79	6,462.2	309.1	-586.7	-255.9	0.00	0.00	0.00
6,600.0	6.58	297.79	6,561.6	314.5	-596.8	-260.3	0.00	0.00	0.00
6,700.0	6.58	297.79	6,660.9	319.8	-606.9	-264.7	0.00	0.00	0.00
6,800.0	6.58	297.79	6,760.3	325.2	-617.1	-269.2	0.00	0.00	0.00
6,900.0	6.58	297.79	6,859.6	330.5	-627.2	-273.6	0.00	0.00	0.00
7,000.0	6.58	297.79	6,958.9	335.8	-637.4	-278.0	0.00	0.00	0.00
7,100.0	6.58	297.79	7,058.3	341.2	-647.5	-282.4	0.00	0.00	0.00
7,200.0	6.58	297.79	7,157.6	346.5	-657.6	-286.9	0.00	0.00	0.00
7,300.0	6.58	297.79	7,257.0	351.9	-667.8	-291.3	0.00	0.00	0.00
7,400.0	6.58	297.79	7,356.3	357.2	-677.9	-295.7	0.00	0.00	0.00
7,500.0	6.58	297.79	7,455.6	362.6	-688.1	-300.1	0.00	0.00	0.00
7,600.0	6.58	297.79	7,555.0	367.9	-698.2	-304.5	0.00	0.00	0.00
7,700.0	6.58	297.79	7,654.3	373.2	-708.3	-309.0	0.00	0.00	0.00
7,800.0	6.58	297.79	7,753.7	378.6	-718.5	-313.4	0.00	0.00	0.00
7,900.0	6.58	297.79	7,853.0	383.9	-728.6	-317.8	0.00	0.00	0.00
8,000.0	6.58	297.79	7,952.3	389.3	-738.8	-322.2	0.00	0.00	0.00
8,100.0	6.58	297.79	8,051.7	394.6	-748.9	-326.7	0.00	0.00	0.00
8,200.0	6.58	297.79	8,151.0	400.0	-759.0	-331.1	0.00	0.00	0.00
8,300.0	6.58	297.79	8,250.4	405.3	-769.2	-335.5	0.00	0.00	0.00
8,400.0	6.58	297.79	8,349.7	410.7	-779.3	-339.9	0.00	0.00	0.00
8,500.0	6.58	297.79	8,449.1	416.0	-789.5	-344.3	0.00	0.00	0.00
8,600.0	6.58	297.79	8,548.4	421.3	-799.6	-348.8	0.00	0.00	0.00
8,700.0	6.58	297.79	8,647.7	426.7	-809.7	-353.2	0.00	0.00	0.00
8,800.0	6.58	297.79	8,747.1	432.0	-819.9	-357.6	0.00	0.00	0.00
8,900.0	6.58	297.79	8,846.4	437.4	-830.0	-362.0	0.00	0.00	0.00
8,971.7	6.58	297.79	8,917.7	441.2	-837.3	-365.2	0.00	0.00	0.00
9,000.0	6.02	297.79	8,945.8	442.6	-840.0	-366.4	2.00	-2.00	0.00
9,100.0	4.02	297.79	9,045.4	446.7	-847.8	-369.8	2.00	-2.00	0.00
9,200.0	2.02	297.79	9,145.2	449.2	-852.4	-371.8	2.00	-2.00	0.00
9,300.0	0.02	297.79	9,245.2	450.0	-854.0	-372.5	2.00	-2.00	0.00
9,300.8	0.00	0.00	9,246.0	450.0	-854.0	-372.5	2.00	-2.00	0.00
KOP: 10' FNL & 400' FWL (35)									
9,400.0	9.92	180.15	9,344.7	441.4	-854.0	-364.0	10.00	10.00	0.00
9,500.0	19.92	180.15	9,441.2	415.7	-854.1	-338.3	10.00	10.00	0.00
9,600.0	29.92	180.15	9,531.8	373.6	-854.2	-296.4	10.00	10.00	0.00
9,700.0	39.92	180.15	9,613.7	316.5	-854.4	-239.5	10.00	10.00	0.00
9,800.0	49.92	180.15	9,684.4	246.0	-854.6	-169.2	10.00	10.00	0.00
9,900.0	59.92	180.15	9,741.8	164.2	-854.8	-87.8	10.00	10.00	0.00
9,938.8	63.80	180.15	9,760.1	130.0	-854.9	-53.7	10.00	10.00	0.00
FTP: 330' FNL & 396' FWL (35)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site El Jefe 35/2 W1DM Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2989.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2989.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1DM Fed Com #2H	North Reference:	Grid
Well:	Sec 35, T24S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FWL, Sec 2		
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	69.92	180.15	9,784.2	73.8	-855.0	2.3	10.00	10.00	0.00
10,100.0	79.92	180.15	9,810.2	-22.7	-855.3	98.4	10.00	10.00	0.00
10,200.0	89.92	180.15	9,819.0	-122.1	-855.5	197.5	10.00	10.00	0.00
10,200.9	90.00	180.15	9,819.0	-123.0	-855.5	198.4	9.51	9.51	0.00
LP: 588' FNL & 392' FWL (35)									
10,300.0	90.00	180.15	9,819.0	-222.1	-855.8	297.2	0.00	0.00	0.00
10,400.0	90.00	180.15	9,819.0	-322.1	-856.1	396.8	0.00	0.00	0.00
10,500.0	90.00	180.15	9,819.0	-422.1	-856.4	496.4	0.00	0.00	0.00
10,600.0	90.00	180.15	9,819.0	-522.1	-856.6	596.0	0.00	0.00	0.00
10,700.0	90.00	180.15	9,819.0	-622.1	-856.9	695.7	0.00	0.00	0.00
10,800.0	90.00	180.15	9,819.0	-722.1	-857.2	795.3	0.00	0.00	0.00
10,900.0	90.00	180.15	9,819.0	-822.1	-857.4	894.9	0.00	0.00	0.00
10,960.9	90.00	180.15	9,819.0	-883.0	-857.6	955.6	0.00	0.00	0.00
PPP2: 1343' FNL & 382' FWL (35)									
11,000.0	90.00	180.15	9,819.0	-922.1	-857.7	994.6	0.00	0.00	0.00
11,100.0	90.00	180.15	9,819.0	-1,022.1	-858.0	1,094.2	0.00	0.00	0.00
11,200.0	90.00	180.15	9,819.0	-1,122.1	-858.3	1,193.8	0.00	0.00	0.00
11,300.0	90.00	180.15	9,819.0	-1,222.1	-858.5	1,293.4	0.00	0.00	0.00
11,400.0	90.00	180.15	9,819.0	-1,322.1	-858.8	1,393.1	0.00	0.00	0.00
11,500.0	90.00	180.15	9,819.0	-1,422.1	-859.1	1,492.7	0.00	0.00	0.00
11,600.0	90.00	180.15	9,819.0	-1,522.1	-859.3	1,592.3	0.00	0.00	0.00
11,700.0	90.00	180.15	9,819.0	-1,622.1	-859.6	1,692.0	0.00	0.00	0.00
11,800.0	90.00	180.15	9,819.0	-1,722.1	-859.9	1,791.6	0.00	0.00	0.00
11,900.0	90.00	180.15	9,819.0	-1,822.1	-860.1	1,891.2	0.00	0.00	0.00
12,000.0	90.00	180.15	9,819.0	-1,922.1	-860.4	1,990.9	0.00	0.00	0.00
12,100.0	90.00	180.15	9,819.0	-2,022.1	-860.7	2,090.5	0.00	0.00	0.00
12,200.0	90.00	180.15	9,819.0	-2,122.1	-861.0	2,190.1	0.00	0.00	0.00
12,300.0	90.00	180.15	9,819.0	-2,222.1	-861.2	2,289.7	0.00	0.00	0.00
12,400.0	90.00	180.15	9,819.0	-2,322.1	-861.5	2,389.4	0.00	0.00	0.00
12,500.0	90.00	180.15	9,819.0	-2,422.1	-861.8	2,489.0	0.00	0.00	0.00
12,600.0	90.00	180.15	9,819.0	-2,522.1	-862.0	2,588.6	0.00	0.00	0.00
12,700.0	90.00	180.15	9,819.0	-2,622.1	-862.3	2,688.3	0.00	0.00	0.00
12,800.0	90.00	180.15	9,819.0	-2,722.1	-862.6	2,787.9	0.00	0.00	0.00
12,900.0	90.00	180.15	9,819.0	-2,822.1	-862.8	2,887.5	0.00	0.00	0.00
13,000.0	90.00	180.15	9,819.0	-2,922.1	-863.1	2,987.2	0.00	0.00	0.00
13,100.0	90.00	180.15	9,819.0	-3,022.1	-863.4	3,086.8	0.00	0.00	0.00
13,200.0	90.00	180.15	9,819.0	-3,122.1	-863.7	3,186.4	0.00	0.00	0.00
13,300.0	90.00	180.15	9,819.0	-3,222.1	-863.9	3,286.0	0.00	0.00	0.00
13,400.0	90.00	180.15	9,819.0	-3,322.1	-864.2	3,385.7	0.00	0.00	0.00
13,500.0	90.00	180.15	9,819.0	-3,422.1	-864.5	3,485.3	0.00	0.00	0.00
13,600.0	90.00	180.15	9,819.0	-3,522.1	-864.7	3,584.9	0.00	0.00	0.00
13,642.9	90.00	180.15	9,819.0	-3,565.0	-864.9	3,627.6	0.00	0.00	0.00
PPP3: 1343' FSL & 348' FWL (35)									
13,700.0	90.00	180.15	9,819.0	-3,622.1	-865.0	3,684.6	0.00	0.00	0.00
13,800.0	90.00	180.15	9,819.0	-3,722.1	-865.3	3,784.2	0.00	0.00	0.00
13,900.0	90.00	180.15	9,819.0	-3,822.1	-865.5	3,883.8	0.00	0.00	0.00
14,000.0	90.00	180.15	9,819.0	-3,922.1	-865.8	3,983.4	0.00	0.00	0.00
14,100.0	90.00	180.15	9,819.0	-4,022.1	-866.1	4,083.1	0.00	0.00	0.00
14,200.0	90.00	180.15	9,819.0	-4,122.1	-866.4	4,182.7	0.00	0.00	0.00
14,300.0	90.00	180.15	9,819.0	-4,222.1	-866.6	4,282.3	0.00	0.00	0.00
14,400.0	90.00	180.15	9,819.0	-4,322.1	-866.9	4,382.0	0.00	0.00	0.00
14,500.0	90.00	180.15	9,819.0	-4,422.1	-867.2	4,481.6	0.00	0.00	0.00
14,600.0	90.00	180.15	9,819.0	-4,522.1	-867.4	4,581.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site El Jefe 35/2 W1DM Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2989.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2989.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1DM Fed Com #2H	North Reference:	Grid
Well:	Sec 35, T24S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FWL, Sec 2		
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)
14,700.0	90.00	180.15	9,819.0	-4,622.1	-867.7	4,680.9	0.00	0.00	0.00
14,800.0	90.00	180.15	9,819.0	-4,722.1	-868.0	4,780.5	0.00	0.00	0.00
14,900.0	90.00	180.15	9,819.0	-4,822.1	-868.3	4,880.1	0.00	0.00	0.00
15,000.0	90.00	180.15	9,819.0	-4,922.1	-868.5	4,979.7	0.00	0.00	0.00
15,100.0	90.00	180.15	9,819.0	-5,022.1	-868.8	5,079.4	0.00	0.00	0.00
15,200.0	90.00	180.15	9,819.0	-5,122.1	-869.1	5,179.0	0.00	0.00	0.00
15,300.0	90.00	180.15	9,819.0	-5,222.1	-869.3	5,278.6	0.00	0.00	0.00
15,400.0	90.00	180.15	9,819.0	-5,322.1	-869.6	5,378.3	0.00	0.00	0.00
15,500.0	90.00	180.15	9,819.0	-5,422.1	-869.9	5,477.9	0.00	0.00	0.00
15,600.0	90.00	180.15	9,819.0	-5,522.1	-870.1	5,577.5	0.00	0.00	0.00
15,700.0	90.00	180.15	9,819.0	-5,622.1	-870.4	5,677.2	0.00	0.00	0.00
15,800.0	90.00	180.15	9,819.0	-5,722.1	-870.7	5,776.8	0.00	0.00	0.00
15,900.0	90.00	180.15	9,819.0	-5,822.1	-871.0	5,876.4	0.00	0.00	0.00
16,000.0	90.00	180.15	9,819.0	-5,922.1	-871.2	5,976.0	0.00	0.00	0.00
16,100.0	90.00	180.15	9,819.0	-6,022.1	-871.5	6,075.7	0.00	0.00	0.00
16,200.0	90.00	180.15	9,819.0	-6,122.1	-871.8	6,175.3	0.00	0.00	0.00
16,300.0	90.00	180.15	9,819.0	-6,222.1	-872.0	6,274.9	0.00	0.00	0.00
16,400.0	90.00	180.15	9,819.0	-6,322.1	-872.3	6,374.6	0.00	0.00	0.00
16,500.0	90.00	180.15	9,819.0	-6,422.1	-872.6	6,474.2	0.00	0.00	0.00
16,600.0	90.00	180.15	9,819.0	-6,522.1	-872.8	6,573.8	0.00	0.00	0.00
16,700.0	90.00	180.15	9,819.0	-6,622.1	-873.1	6,673.5	0.00	0.00	0.00
16,800.0	90.00	180.15	9,819.0	-6,722.1	-873.4	6,773.1	0.00	0.00	0.00
16,900.0	90.00	180.15	9,819.0	-6,822.1	-873.7	6,872.7	0.00	0.00	0.00
17,000.0	90.00	180.15	9,819.0	-6,922.1	-873.9	6,972.3	0.00	0.00	0.00
17,100.0	90.00	180.15	9,819.0	-7,022.1	-874.2	7,072.0	0.00	0.00	0.00
17,200.0	90.00	180.15	9,819.0	-7,122.1	-874.5	7,171.6	0.00	0.00	0.00
17,300.0	90.00	180.15	9,819.0	-7,222.1	-874.7	7,271.2	0.00	0.00	0.00
17,400.0	90.00	180.15	9,819.0	-7,322.1	-875.0	7,370.9	0.00	0.00	0.00
17,500.0	90.00	180.15	9,819.0	-7,422.1	-875.3	7,470.5	0.00	0.00	0.00
17,600.0	90.00	180.15	9,819.0	-7,522.1	-875.6	7,570.1	0.00	0.00	0.00
17,700.0	90.00	180.15	9,819.0	-7,622.1	-875.8	7,669.7	0.00	0.00	0.00
17,800.0	90.00	180.15	9,819.0	-7,722.1	-876.1	7,769.4	0.00	0.00	0.00
17,900.0	90.00	180.15	9,819.0	-7,822.1	-876.4	7,869.0	0.00	0.00	0.00
18,000.0	90.00	180.15	9,819.0	-7,922.1	-876.6	7,968.6	0.00	0.00	0.00
18,100.0	90.00	180.15	9,819.0	-8,022.1	-876.9	8,068.3	0.00	0.00	0.00
18,200.0	90.00	180.15	9,819.0	-8,122.1	-877.2	8,167.9	0.00	0.00	0.00
18,300.0	90.00	180.15	9,819.0	-8,222.1	-877.4	8,267.5	0.00	0.00	0.00
18,400.0	90.00	180.15	9,819.0	-8,322.1	-877.7	8,367.2	0.00	0.00	0.00
18,500.0	90.00	180.15	9,819.0	-8,422.1	-878.0	8,466.8	0.00	0.00	0.00
18,600.0	90.00	180.15	9,819.0	-8,522.1	-878.3	8,566.4	0.00	0.00	0.00
18,700.0	90.00	180.15	9,819.0	-8,622.1	-878.5	8,666.0	0.00	0.00	0.00
18,800.0	90.00	180.15	9,819.0	-8,722.1	-878.8	8,765.7	0.00	0.00	0.00
18,900.0	90.00	180.15	9,819.0	-8,822.1	-879.1	8,865.3	0.00	0.00	0.00
19,000.0	90.00	180.15	9,819.0	-8,922.1	-879.3	8,964.9	0.00	0.00	0.00
19,100.0	90.00	180.15	9,819.0	-9,022.1	-879.6	9,064.6	0.00	0.00	0.00
19,200.0	90.00	180.15	9,819.0	-9,122.1	-879.9	9,164.2	0.00	0.00	0.00
19,300.0	90.00	180.15	9,819.0	-9,222.1	-880.1	9,263.8	0.00	0.00	0.00
19,400.0	90.00	180.15	9,819.0	-9,322.1	-880.4	9,363.5	0.00	0.00	0.00
19,500.0	90.00	180.15	9,819.0	-9,422.1	-880.7	9,463.1	0.00	0.00	0.00
19,600.0	90.00	180.15	9,819.0	-9,522.1	-881.0	9,562.7	0.00	0.00	0.00
19,700.0	90.00	180.15	9,819.0	-9,622.1	-881.2	9,662.3	0.00	0.00	0.00
19,800.0	90.00	180.15	9,819.0	-9,722.1	-881.5	9,762.0	0.00	0.00	0.00
19,900.0	90.00	180.15	9,819.0	-9,822.1	-881.8	9,861.6	0.00	0.00	0.00
19,984.9	90.00	180.15	9,819.0	-9,907.0	-882.0	9,946.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site El Jefe 35/2 W1DM Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2989.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2989.0usft (Original Well Elev)
Site:	El Jefe 35/2 W1DM Fed Com #2H	North Reference:	Grid
Well:	Sec 35, T24S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 330' FWL, Sec 2		
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)
BHL: 330' FSL & 330' FWL (2)									

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: 455' FNL & 1250' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	429,331.00	625,108.00	32.1800189	-104.0625656
KOP: 10' FNL & 400' FV - plan hits target center - Point	0.00	0.00	9,246.0	450.0	-854.0	429,781.00	624,254.00	32.1812618	-104.0653223
FTP: 330' FNL & 396' FV - plan hits target center - Point	0.00	0.00	9,760.1	130.0	-854.9	429,461.00	624,253.14	32.1803821	-104.0653276
PPP3: 1343' FSL & 348' - plan hits target center - Point	0.00	0.00	9,819.0	-3,565.0	-864.9	425,766.00	624,243.15	32.1702250	-104.0653897
LP: 588' FNL & 392' FW - plan hits target center - Point	0.00	0.00	9,819.0	-123.0	-855.5	429,208.00	624,252.45	32.1796867	-104.0653319
PPP2: 1343' FNL & 382' - plan hits target center - Point	0.00	0.00	9,819.0	-883.0	-857.6	428,448.00	624,250.40	32.1775975	-104.0653446
BHL: 330' FSL & 330' FV - plan hits target center - Point	0.00	0.00	9,819.0	-9,907.0	-882.0	419,424.00	624,226.00	32.1527916	-104.0654961