

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMLC061497

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
FULLER 13/24 W1KN FED COM 2H9. API Well No.
30-015-45331-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. 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 88241

3b. Phone No. (include area code)

Ph: 575-393-5805

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

Sec 13 T26S R29E SWNE 2500FNL 2485FEL
32.042271 N Lat, 103.935127 W LonCarlsbad Field Unit
OCD Artesia**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.

MOC requests that the BHL be moved to 330' FSL & 2200' FWL; Sec. 24, T26S, R29E. - *Changed 2-5-2019*

See attached new directional plan, directional plot, drilling program w/csg & cmt data, and form containing additional points required.

Please contact Klay Kirkes with any questions.

Thank you.

Accepted For Record
NMOCD
*3-11-19**All previous COAs shall apply.*

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

Electronic Submission #445376 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/30/2018 (19PP0475SE)

Name (Printed/Typed) KLAY H KIRKES

Title ENGINEER

Signature (Electronic Submission)

Date 11/28/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTIA STEVENS

Title PETROLEUM ENGINEER

Date 02/26/2019

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 ******ENTERED**
3-11-19

NM OIL CONSERVATION ARTESIA DISTRICT

MAR 11 2019

Form C-102

Revised August 1, 2011

District I
1625 N. French Dr., Albuquerque, NM 87102
Phone: (505) 393-6161 Fax: (505) 393-0722
District II
511 S. First St., Artesia, NM 88210
Phone: (505) 702-1251 Fax: (505) 742-0720
District III
1000 Rio Grande Road, Aztec, NM 87410
Phone: (505) 334-6175 Fax: (505) 334-6170
District IV
1270 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

RECEIVED

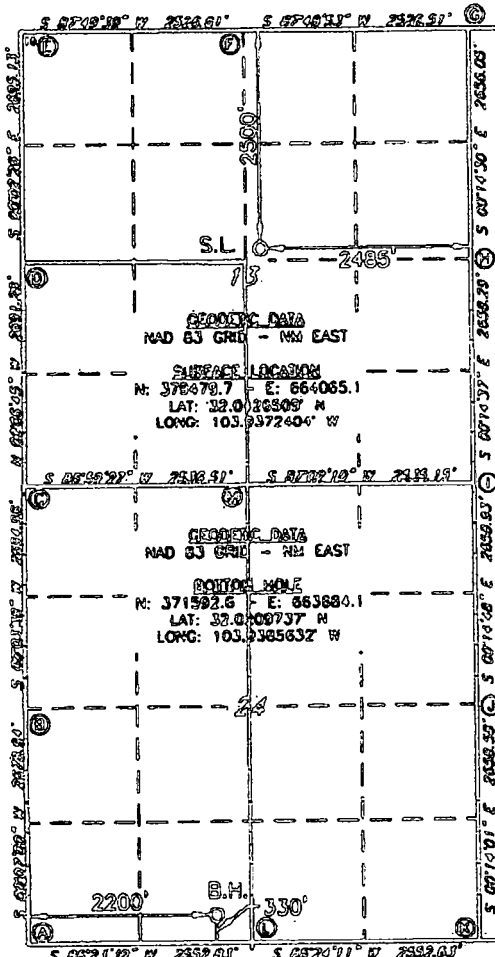
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-46331		2 Pool Code 98220		3 Pool Name PURPLE SAGE WOLFMAN?	
4 Property Code 324944		5 Property Name FULLER 13/24 W1KN FED COM			
6 Well Number 2H		7 Operator Name MEWBORNE OIL COMPANY			
8 Elevation 3003'		9 Surface Location			
UL or lot no. G	Section 13	Township 26S	Range 29E	Lot 10n 2500	North/South line NORTH
Feet from the 2485		East/West line EAST		County EDDY	
10 Bottom Hole Location If Different From Surface					
UL or lot no. N	Section 24	Township 26S	Range 29E	Lot 10n 330	North/South line SOUTH
Feet from the 2200		East/West line WEST		County EDDY	
11 Dedicated Acre 4.80		12 Joint or Infill		13 Consolidation Code	
14 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.



CORNER DATA

NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1940"
N: 371124.3 - E: 661488.2

B: FOUND BRASS CAP "1940"
N: 373802.7 - E: 661493.7

C: FOUND BRASS CAP "1940"
N: 378697.1 - E: 661495.5

D: FOUND BRASS CAP "1940"
N: 379187.8 - E: 661491.3

E: FOUND BRASS CAP "1940"
N: 381802.4 - E: 661489.4

F: FOUND BRASS CAP "1940"
N: 381978.1 - E: 664013.6

G: FOUND BRASS CAP "1940"
N: 392074.4 - E: 666537.7

H: FOUND BRASS CAP "1940"
N: 379418.0 - E: 666548.9

I: FOUND BRASS CAP "1940"
N: 376781.3 - E: 668530.2

J: FOUND BRASS CAP "1940"
N: 374102.9 - E: 666371.7

K: FOUND 3/8" REBAR
N: 371644.9 - E: 666562.5

L: FOUND BRASS CAP "1940"
N: 371284.8 - E: 664035.5

M: FOUND BRASS CAP "1940"
N: 376630.2 - E: 664028.0

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 an undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well on this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or an obligatory pooling order previously entered by the division.

Signature: Bradley Bishop
Printed Name: Bradley Bishop
E-mail Address: Bbishop@meuborne.com

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.

10-11-2018

ARC-Job No: LS18101135

-5-19
2-8-19

Mewbourne Oil Company
Fuller 13/24 W1KN Fed Com #2H
Secs. 13 & 24, T26S, R29E
SL: 2500' FNL & 2485' FEL (13)
BHL: 330' FSL & 2200' FWL (24)

1. Geologic Formations

TVD of target	10577'	Pilot hole depth	NA
MD at TD:	18233'	Deepest expected fresh water:	125'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	940		
Salado	1200		
Castile	1490		
Base Salt	3025		
Lamar	3215	Oil/Gas	
Bell Canyon	3245	Oil/Gas	
Cherry Canyon	4135	Oil/Gas	
Manzanita	4310		
Brushy Canyon	5420	Oil/Gas	
Bone Springs	7045	Oil/Gas	
1 st Bone Spring	7965	Oil/Gas	
2 nd Bone Spring	8600	Oil/Gas	
3 rd Bone Spring	9865	Oil/Gas	
Abo			
Wolfcamp	10235	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

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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'	1015'	13.375"	48	H40	STC	1.66	3.72	6.61	11.10
12.25"	0'	3140'	9.625"	36	J55	LTC	1.24	2.16	4.01	4.99
8.75"	0'	10800'	7"	26	P110	LTC	1.19	1.90	2.28	2.96
6.125"	10035'	18233'	4.5"	13.5	P110	LTC	1.62	1.88	3.05	3.81
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?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	540	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.	440	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	360	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
ECP/DV tool @ 4310'						
Prod. Stg 2	60	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	100	14.8	1.34	6.3	8	Tail: Class C + Retarder
Liner	330	11.2	2.97	18	16	Class H + 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	2940'	25%
Liner	10035'	25%

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4. Pressure Control Equipment

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.	

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	1015'	FW Gel	8.6-8.8	28-34	N/C
1015'	3140'	Saturated Brine	10.0	28-34	N/C
3140'	10581'	Cut Brine	8.6-9.5	28-34	N/C
10581'	10597'	OBM	9.5-12.0	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. MW up to 13.0 ppg may be required for shale control. The highest MW needed to balance formation pressure is expected to be 12.0 ppg.

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 (10035') 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	10035' (KOP) to TD
Density	
CBL	
Mud log	
PEX	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6613 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 NAD 83

Fuller 13/24 W1KN Fed Com #2H

Secs. 13 & 24, T26S, R29E

SL: 2500' FNL & 2485' FEL (13)

BHL: 330' FSL & 2200' FWL (24)

Plan: Design #1

Standard Planning Report

27 November, 2018

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Fuller 13/24 W1KN Fed Com #2H
Well: Secs. 13 & 24, T26S, R29E
Wellbore: BHL: 330' FSL & 2200' FWL (24)
Design: Design #1

Local Co-ordinate Reference: Site Fuller 13/24 W1KN Fed Com #2H
TVD Reference: WELL @ 3030.0usft (Original Well Elev)
MD Reference: WELL @ 3030.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Site	Fuller 13/24 W1KN Fed Com #2H			
Site Position:		Northing:	379,480.00 usft	Latitude: 32.0426518
From:	Map	Easting:	664,065.00 usft	Longitude: -103.9372408
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.21 °

Well	Secs. 13 & 24, T26S, R29E			
Well Position	+N/-S	0.0 usft	Northing:	379,480.00 usft
	+E/-W	0.0 usft	Easting:	664,065.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,030.0 usft	Ground Level: 3,003.0 usft

Wellbore	BHL: 330' FSL & 2200' FWL (24)				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	11/26/2018	6.82	59.77	47,729

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	182.77

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	
3,215.0	0.00	0.00	3,215.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,431.7	3.25	267.55	3,431.6	-0.3	-6.1	1.50	1.50	0.00	267.55	
9,817.8	3.25	267.55	9,807.4	-15.7	-367.9	0.00	0.00	0.00	0.00	
10,034.5	0.00	0.00	10,024.0	-16.0	-374.0	1.50	-1.50	0.00	180.00	KOP: 2500' FNL & 22
10,936.1	90.16	180.05	10,597.0	-590.6	-374.5	10.00	10.00	0.00	-179.95	
18,232.6	90.16	180.05	10,577.0	-7,887.0	-381.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 2200'

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Fuller 13/24 W1KN Fed Com #2H
 Well: Secs. 13 & 24, T26S, R29E
 Wellbore: BHL: 330' FSL & 2200' FWL (24)
 Design: Design #1

Local Co-ordinate Reference: Site Fuller 13/24 W1KN Fed Com #2H
 TVD Reference: WELL @ 3030.0usft (Original Well Elev)
 MD Reference: WELL @ 3030.0usft (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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 2500' FNL & 2485' FEL (13)									
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
3,215.0	0.00	0.00	3,215.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	1.28	267.55	3,300.0	0.0	-0.9	0.1	1.50	1.50	0.00
3,400.0	2.78	267.55	3,399.9	-0.2	-4.5	0.4	1.50	1.50	0.00
3,431.7	3.25	267.55	3,431.6	-0.3	-6.1	0.6	1.50	1.50	0.00
3,500.0	3.25	267.55	3,499.8	-0.4	-10.0	0.9	0.00	0.00	0.00
3,600.0	3.25	267.55	3,599.6	-0.7	-15.7	1.4	0.00	0.00	0.00
3,700.0	3.25	267.55	3,699.5	-0.9	-21.3	1.9	0.00	0.00	0.00
3,800.0	3.25	267.55	3,799.3	-1.2	-27.0	2.5	0.00	0.00	0.00
3,900.0	3.25	267.55	3,899.1	-1.4	-32.7	3.0	0.00	0.00	0.00
4,000.0	3.25	267.55	3,999.0	-1.6	-38.3	3.5	0.00	0.00	0.00
4,100.0	3.25	267.55	4,098.8	-1.9	-44.0	4.0	0.00	0.00	0.00
4,200.0	3.25	267.55	4,198.6	-2.1	-49.7	4.5	0.00	0.00	0.00
4,300.0	3.25	267.55	4,298.5	-2.4	-55.3	5.0	0.00	0.00	0.00
4,400.0	3.25	267.55	4,398.3	-2.6	-61.0	5.5	0.00	0.00	0.00
4,500.0	3.25	267.55	4,498.2	-2.9	-66.7	6.1	0.00	0.00	0.00
4,600.0	3.25	267.55	4,598.0	-3.1	-72.3	6.6	0.00	0.00	0.00
4,700.0	3.25	267.55	4,697.8	-3.3	-78.0	7.1	0.00	0.00	0.00
4,800.0	3.25	267.55	4,797.7	-3.6	-83.6	7.6	0.00	0.00	0.00
4,900.0	3.25	267.55	4,897.5	-3.8	-89.3	8.1	0.00	0.00	0.00
5,000.0	3.25	267.55	4,997.4	-4.1	-95.0	8.6	0.00	0.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Fuller 13/24 W1KN Fed Com #2H
 Well: Secs. 13 & 24, T26S, R29E
 Wellbore: BHL: 330' FSL & 2200' FWL (24)
 Design: Design #1

Local Co-ordinate Reference: Site Fuller 13/24 W1KN Fed Com #2H
 TVD Reference: WELL @ 3030.0usft (Original Well Elev)
 MD Reference: WELL @ 3030.0usft (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)
5,100.0	3.25	267.55	5,097.2	-4.3	-100.6	9.2	0.00	0.00	0.00
5,200.0	3.25	267.55	5,197.0	-4.5	-106.3	9.7	0.00	0.00	0.00
5,300.0	3.25	267.55	5,296.9	-4.8	-112.0	10.2	0.00	0.00	0.00
5,400.0	3.25	267.55	5,396.7	-5.0	-117.6	10.7	0.00	0.00	0.00
5,500.0	3.25	267.55	5,496.6	-5.3	-123.3	11.2	0.00	0.00	0.00
5,600.0	3.25	267.55	5,596.4	-5.5	-129.0	11.7	0.00	0.00	0.00
5,700.0	3.25	267.55	5,696.2	-5.8	-134.6	12.2	0.00	0.00	0.00
5,800.0	3.25	267.55	5,796.1	-6.0	-140.3	12.8	0.00	0.00	0.00
5,900.0	3.25	267.55	5,895.9	-6.2	-145.9	13.3	0.00	0.00	0.00
6,000.0	3.25	267.55	5,995.8	-6.5	-151.6	13.8	0.00	0.00	0.00
6,100.0	3.25	267.55	6,095.6	-6.7	-157.3	14.3	0.00	0.00	0.00
6,200.0	3.25	267.55	6,195.4	-7.0	-162.9	14.8	0.00	0.00	0.00
6,300.0	3.25	267.55	6,295.3	-7.2	-168.6	15.3	0.00	0.00	0.00
6,400.0	3.25	267.55	6,395.1	-7.5	-174.3	15.9	0.00	0.00	0.00
6,500.0	3.25	267.55	6,494.9	-7.7	-179.9	16.4	0.00	0.00	0.00
6,600.0	3.25	267.55	6,594.8	-7.9	-185.6	16.9	0.00	0.00	0.00
6,700.0	3.25	267.55	6,694.6	-8.2	-191.3	17.4	0.00	0.00	0.00
6,800.0	3.25	267.55	6,794.5	-8.4	-196.9	17.9	0.00	0.00	0.00
6,900.0	3.25	267.55	6,894.3	-8.7	-202.6	18.4	0.00	0.00	0.00
7,000.0	3.25	267.55	6,994.1	-8.9	-208.3	18.9	0.00	0.00	0.00
7,100.0	3.25	267.55	7,094.0	-9.2	-213.9	19.5	0.00	0.00	0.00
7,200.0	3.25	267.55	7,193.8	-9.4	-219.6	20.0	0.00	0.00	0.00
7,300.0	3.25	267.55	7,293.7	-9.6	-225.2	20.5	0.00	0.00	0.00
7,400.0	3.25	267.55	7,393.5	-9.9	-230.9	21.0	0.00	0.00	0.00
7,500.0	3.25	267.55	7,493.3	-10.1	-236.6	21.5	0.00	0.00	0.00
7,600.0	3.25	267.55	7,593.2	-10.4	-242.2	22.0	0.00	0.00	0.00
7,700.0	3.25	267.55	7,693.0	-10.6	-247.9	22.6	0.00	0.00	0.00
7,800.0	3.25	267.55	7,792.9	-10.8	-253.6	23.1	0.00	0.00	0.00
7,900.0	3.25	267.55	7,892.7	-11.1	-259.2	23.6	0.00	0.00	0.00
8,000.0	3.25	267.55	7,992.5	-11.3	-264.9	24.1	0.00	0.00	0.00
8,100.0	3.25	267.55	8,092.4	-11.6	-270.6	24.6	0.00	0.00	0.00
8,200.0	3.25	267.55	8,192.2	-11.8	-276.2	25.1	0.00	0.00	0.00
8,300.0	3.25	267.55	8,292.1	-12.1	-281.9	25.6	0.00	0.00	0.00
8,400.0	3.25	267.55	8,391.9	-12.3	-287.6	26.2	0.00	0.00	0.00
8,500.0	3.25	267.55	8,491.7	-12.5	-293.2	26.7	0.00	0.00	0.00
8,600.0	3.25	267.55	8,591.6	-12.8	-298.9	27.2	0.00	0.00	0.00
8,700.0	3.25	267.55	8,691.4	-13.0	-304.5	27.7	0.00	0.00	0.00
8,800.0	3.25	267.55	8,791.2	-13.3	-310.2	28.2	0.00	0.00	0.00
8,900.0	3.25	267.55	8,891.1	-13.5	-315.9	28.7	0.00	0.00	0.00
9,000.0	3.25	267.55	8,990.9	-13.8	-321.5	29.3	0.00	0.00	0.00
9,100.0	3.25	267.55	9,090.8	-14.0	-327.2	29.8	0.00	0.00	0.00
9,200.0	3.25	267.55	9,190.6	-14.2	-332.9	30.3	0.00	0.00	0.00
9,300.0	3.25	267.55	9,290.4	-14.5	-338.5	30.8	0.00	0.00	0.00
9,400.0	3.25	267.55	9,390.3	-14.7	-344.2	31.3	0.00	0.00	0.00
9,500.0	3.25	267.55	9,490.1	-15.0	-349.9	31.8	0.00	0.00	0.00
9,600.0	3.25	267.55	9,590.0	-15.2	-355.5	32.3	0.00	0.00	0.00
9,700.0	3.25	267.55	9,689.8	-15.5	-361.2	32.9	0.00	0.00	0.00
9,800.0	3.25	267.55	9,789.6	-15.7	-366.9	33.4	0.00	0.00	0.00
9,817.8	3.25	267.55	9,807.4	-15.7	-367.9	33.5	0.00	0.00	0.00
9,900.0	2.02	267.55	9,889.5	-15.9	-371.6	33.8	1.50	-1.50	0.00
10,000.0	0.52	267.55	9,989.5	-16.0	-373.8	34.0	1.50	-1.50	0.00
10,034.5	0.00	0.00	10,024.0	-16.0	-374.0	34.0	1.50	-1.50	0.00

KOP: 2500' FNL & 2200' FWL (13)

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Fuller 13/24 W1KN Fed Com #2H
 Well: Secs. 13 & 24, T26S, R29E
 Wellbore: BHL: 330' FSL & 2200' FWL (24)
 Design: Design #1

Local Co-ordinate Reference: Site Fuller 13/24 W1KN Fed Com #2H
 TVD Reference: WELL @ 3030.0usft (Original Well Elev)
 MD Reference: WELL @ 3030.0usft (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)
10,100.0	6.55	180.05	10,089.4	-19.7	-374.0	37.8	10.00	10.00	0.00
10,200.0	16.55	180.05	10,187.2	-39.7	-374.0	57.7	10.00	10.00	0.00
10,300.0	26.55	180.05	10,280.1	-76.4	-374.1	94.4	10.00	10.00	0.00
10,400.0	36.55	180.05	10,365.2	-128.7	-374.1	146.6	10.00	10.00	0.00
10,500.0	46.55	180.05	10,440.0	-194.9	-374.2	212.7	10.00	10.00	0.00
10,600.0	56.55	180.05	10,502.1	-273.1	-374.2	290.9	10.00	10.00	0.00
10,700.0	66.54	180.05	10,549.7	-360.9	-374.3	378.6	10.00	10.00	0.00
10,800.0	76.54	180.05	10,581.3	-455.7	-374.4	473.2	10.00	10.00	0.00
10,848.2	81.37	180.05	10,590.5	-503.0	-374.4	520.5	10.00	10.00	0.00
FTP: 2361' FSL & 2200' FWL (13)									
10,900.0	86.54	180.05	10,596.0	-554.4	-374.5	571.9	10.00	10.00	0.00
10,936.1	90.16	180.05	10,597.0	-590.6	-374.5	608.0	10.00	10.00	0.00
11,000.0	90.16	180.05	10,596.8	-654.4	-374.6	671.7	0.00	0.00	0.00
11,100.0	90.16	180.05	10,596.6	-754.4	-374.7	771.6	0.00	0.00	0.00
11,200.0	90.16	180.05	10,596.3	-854.4	-374.7	871.5	0.00	0.00	0.00
11,300.0	90.16	180.05	10,596.0	-954.4	-374.8	971.4	0.00	0.00	0.00
11,400.0	90.16	180.05	10,595.7	-1,054.4	-374.9	1,071.3	0.00	0.00	0.00
11,500.0	90.16	180.05	10,595.5	-1,154.4	-375.0	1,171.2	0.00	0.00	0.00
11,600.0	90.16	180.05	10,595.2	-1,254.4	-375.1	1,271.1	0.00	0.00	0.00
11,700.0	90.16	180.05	10,594.9	-1,354.4	-375.2	1,371.0	0.00	0.00	0.00
11,800.0	90.16	180.05	10,594.6	-1,454.4	-375.3	1,470.8	0.00	0.00	0.00
11,900.0	90.16	180.05	10,594.4	-1,554.4	-375.4	1,570.7	0.00	0.00	0.00
12,000.0	90.16	180.05	10,594.1	-1,654.4	-375.5	1,670.6	0.00	0.00	0.00
12,100.0	90.16	180.05	10,593.8	-1,754.4	-375.5	1,770.5	0.00	0.00	0.00
12,200.0	90.16	180.05	10,593.5	-1,854.4	-375.6	1,870.4	0.00	0.00	0.00
12,300.0	90.16	180.05	10,593.3	-1,954.4	-375.7	1,970.3	0.00	0.00	0.00
12,400.0	90.16	180.05	10,593.0	-2,054.4	-375.8	2,070.2	0.00	0.00	0.00
12,500.0	90.16	180.05	10,592.7	-2,154.4	-375.9	2,170.1	0.00	0.00	0.00
12,600.0	90.16	180.05	10,592.4	-2,254.4	-376.0	2,269.9	0.00	0.00	0.00
12,700.0	90.16	180.05	10,592.2	-2,354.4	-376.1	2,369.8	0.00	0.00	0.00
12,800.0	90.16	180.05	10,591.9	-2,454.4	-376.2	2,469.7	0.00	0.00	0.00
12,900.0	90.16	180.05	10,591.6	-2,554.4	-376.3	2,569.6	0.00	0.00	0.00
13,000.0	90.16	180.05	10,591.3	-2,654.4	-376.3	2,669.5	0.00	0.00	0.00
13,100.0	90.16	180.05	10,591.1	-2,754.4	-376.4	2,769.4	0.00	0.00	0.00
13,200.0	90.16	180.05	10,590.8	-2,854.4	-376.5	2,869.3	0.00	0.00	0.00
13,213.6	90.16	180.05	10,590.8	-2,868.0	-376.5	2,882.8	0.00	0.00	0.00
PPP: 0' FNL & 2200' FWL (24)									
13,300.0	90.16	180.05	10,590.5	-2,954.4	-376.6	2,969.1	0.00	0.00	0.00
13,400.0	90.16	180.05	10,590.2	-3,054.4	-376.7	3,069.0	0.00	0.00	0.00
13,500.0	90.16	180.05	10,590.0	-3,154.4	-376.8	3,168.9	0.00	0.00	0.00
13,600.0	90.16	180.05	10,589.7	-3,254.4	-376.9	3,268.8	0.00	0.00	0.00
13,700.0	90.16	180.05	10,589.4	-3,354.4	-377.0	3,368.7	0.00	0.00	0.00
13,800.0	90.16	180.05	10,589.1	-3,454.4	-377.1	3,468.6	0.00	0.00	0.00
13,900.0	90.16	180.05	10,588.9	-3,554.4	-377.1	3,568.5	0.00	0.00	0.00
14,000.0	90.16	180.05	10,588.6	-3,654.4	-377.2	3,668.4	0.00	0.00	0.00
14,100.0	90.16	180.05	10,588.3	-3,754.4	-377.3	3,768.2	0.00	0.00	0.00
14,200.0	90.16	180.05	10,588.1	-3,854.4	-377.4	3,868.1	0.00	0.00	0.00
14,300.0	90.16	180.05	10,587.8	-3,954.4	-377.5	3,968.0	0.00	0.00	0.00
14,400.0	90.16	180.05	10,587.5	-4,054.4	-377.6	4,067.9	0.00	0.00	0.00
14,500.0	90.16	180.05	10,587.2	-4,154.4	-377.7	4,167.8	0.00	0.00	0.00
14,600.0	90.16	180.05	10,587.0	-4,254.4	-377.8	4,267.7	0.00	0.00	0.00
14,700.0	90.16	180.05	10,586.7	-4,354.4	-377.9	4,367.6	0.00	0.00	0.00
14,800.0	90.16	180.05	10,586.4	-4,454.4	-377.9	4,467.5	0.00	0.00	0.00
14,900.0	90.16	180.05	10,586.1	-4,554.4	-378.0	4,567.3	0.00	0.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Fuller 13/24 W1KN Fed Com #2H
 Well: Secs. 13 & 24, T26S, R29E
 Wellbore: BHL: 330' FSL & 2200' FWL (24)
 Design: Design #1

Local Co-ordinate Reference: Site Fuller 13/24 W1KN Fed Com #2H
 TVD Reference: WELL @ 3030.0usft (Original Well Elev)
 MD Reference: WELL @ 3030.0usft (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)
15,000.0	90.16	180.05	10,585.9	-4,654.4	-378.1	4,667.2	0.00	0.00	0.00
15,100.0	90.16	180.05	10,585.6	-4,754.4	-378.2	4,767.1	0.00	0.00	0.00
15,200.0	90.16	180.05	10,585.3	-4,854.4	-378.3	4,867.0	0.00	0.00	0.00
15,300.0	90.16	180.05	10,585.0	-4,954.4	-378.4	4,966.9	0.00	0.00	0.00
15,400.0	90.16	180.05	10,584.8	-5,054.4	-378.5	5,066.8	0.00	0.00	0.00
15,500.0	90.16	180.05	10,584.5	-5,154.4	-378.6	5,166.7	0.00	0.00	0.00
15,600.0	90.16	180.05	10,584.2	-5,254.4	-378.7	5,266.6	0.00	0.00	0.00
15,700.0	90.16	180.05	10,583.9	-5,354.4	-378.7	5,366.4	0.00	0.00	0.00
15,800.0	90.16	180.05	10,583.7	-5,454.4	-378.8	5,466.3	0.00	0.00	0.00
15,900.0	90.16	180.05	10,583.4	-5,554.4	-378.9	5,566.2	0.00	0.00	0.00
16,000.0	90.16	180.05	10,583.1	-5,654.4	-379.0	5,666.1	0.00	0.00	0.00
16,100.0	90.16	180.05	10,582.8	-5,754.4	-379.1	5,766.0	0.00	0.00	0.00
16,200.0	90.16	180.05	10,582.6	-5,854.4	-379.2	5,865.9	0.00	0.00	0.00
16,300.0	90.16	180.05	10,582.3	-5,954.4	-379.3	5,965.8	0.00	0.00	0.00
16,400.0	90.16	180.05	10,582.0	-6,054.4	-379.4	6,065.7	0.00	0.00	0.00
16,500.0	90.16	180.05	10,581.7	-6,154.4	-379.5	6,165.5	0.00	0.00	0.00
16,600.0	90.16	180.05	10,581.5	-6,254.4	-379.5	6,265.4	0.00	0.00	0.00
16,700.0	90.16	180.05	10,581.2	-6,354.4	-379.6	6,365.3	0.00	0.00	0.00
16,800.0	90.16	180.05	10,580.9	-6,454.4	-379.7	6,465.2	0.00	0.00	0.00
16,900.0	90.16	180.05	10,580.7	-6,554.4	-379.8	6,565.1	0.00	0.00	0.00
17,000.0	90.16	180.05	10,580.4	-6,654.4	-379.9	6,665.0	0.00	0.00	0.00
17,100.0	90.16	180.05	10,580.1	-6,754.4	-380.0	6,764.9	0.00	0.00	0.00
17,200.0	90.16	180.05	10,579.8	-6,854.4	-380.1	6,864.8	0.00	0.00	0.00
17,300.0	90.16	180.05	10,579.6	-6,954.4	-380.2	6,964.6	0.00	0.00	0.00
17,400.0	90.16	180.05	10,579.3	-7,054.4	-380.3	7,064.5	0.00	0.00	0.00
17,500.0	90.16	180.05	10,579.0	-7,154.4	-380.3	7,164.4	0.00	0.00	0.00
17,600.0	90.16	180.05	10,578.7	-7,254.4	-380.4	7,264.3	0.00	0.00	0.00
17,700.0	90.16	180.05	10,578.5	-7,354.4	-380.5	7,364.2	0.00	0.00	0.00
17,800.0	90.16	180.05	10,578.2	-7,454.4	-380.6	7,464.1	0.00	0.00	0.00
17,900.0	90.16	180.05	10,577.9	-7,554.4	-380.7	7,564.0	0.00	0.00	0.00
18,000.0	90.16	180.05	10,577.6	-7,654.4	-380.8	7,663.9	0.00	0.00	0.00
18,100.0	90.16	180.05	10,577.4	-7,754.4	-380.9	7,763.7	0.00	0.00	0.00
18,200.0	90.16	180.05	10,577.1	-7,854.4	-381.0	7,863.6	0.00	0.00	0.00
18,232.6	90.16	180.05	10,577.0	-7,887.0	-381.0	7,896.2	0.00	0.00	0.00

BHL: 330' FSL & 2200' FWL (24)

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Fuller 13/24 W1KN Fed Com #2H
Well: Secs. 13 & 24, T26S, R29E
Wellbore: BHL: 330' FSL & 2200' FWL (24)
Design: Design #1

Local Co-ordinate Reference: Site Fuller 13/24 W1KN Fed Com #2H
TVD Reference: WELL @ 3030.0usft (Original Well Elev)
MD Reference: WELL @ 3030.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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: 2500' FNL & 2485' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	379,480.00	664,065.00	32.0426518	-103.9372408
KOP: 2500' FNL & 2200' - plan hits target center - Point	0.00	0.00	10,024.0	-16.0	-374.0	379,464.00	663,691.00	32.0426116	-103.9384481
BHL: 330' FSL & 2200' F - plan hits target center - Point	0.00	0.00	10,577.0	-7,887.0	-381.0	371,593.00	663,684.00	32.0209748	-103.9385635
FTP: 2361' FSL & 2200' - plan hits target center - Point	0.00	0.00	10,590.5	-503.0	-374.4	378,977.00	663,690.57	32.0412728	-103.9384552
PPP: 0' FNL & 2200' FW - plan hits target center - Point	0.00	0.00	10,590.8	-2,868.0	-376.5	376,612.00	663,688.47	32.0347717	-103.9384899

Fuller 13/24 W1KN Fed Com #2H

