

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

Carlsbad Field Office
OCD Artesia

5. Lease Serial No.
NM 1421953
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.
FULLER 14 23 W1LM FED COM 2H

2. Name of Operator
MEWBOURNE OIL COMPANY

Contact: BRADLEY BISHOP

9. API Well No.
30-015-43859-00-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
BRUSHY DRAW-WOLFCAMP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 14 T26S R29E SWNW 2450FNL 390FWL

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	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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 would like to change the name of this well to FULLER 14/23 W2LM FED COM #2H. MOC would also like to change to Wolfcamp D.

(317543)

Bond on file: NM1693 nationwide & NMB000919
Bond on file: 22015694 nationwide & 022041703 Statewide

NM OIL CONSERVATION
ACTING DISTRICT
FEB 18 2017
RECEIVED

All Previous COA still apply

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

Electronic Submission #363857 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 02/07/2017 (17DLM0673SE)

Name (Printed/Typed) BRADLEY BISHOP

Title

Signature (Electronic Submission)

Date 01/13/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By TEUNGKU MUCHE

Conditions of approval
certify that the
which

Title PETROLEUM ENGINEER

Date 02/08/2017

Grant or
lease

Office Carlsbad

For any person knowingly and willfully to make to any department or agency of the United States to any matter within its jurisdiction.

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

Submit C-102 to reflect new
property name/code 317543

Mewbourne Oil Company, Fuller 14/23 W1LM Fed Com #2H

Sec 14, T26S, R29E

SL: 2450' FNL & 390' FWL, Sec 14

BHL: 330' FSL & 390' FWL, Sec 23

1. Geologic Formations

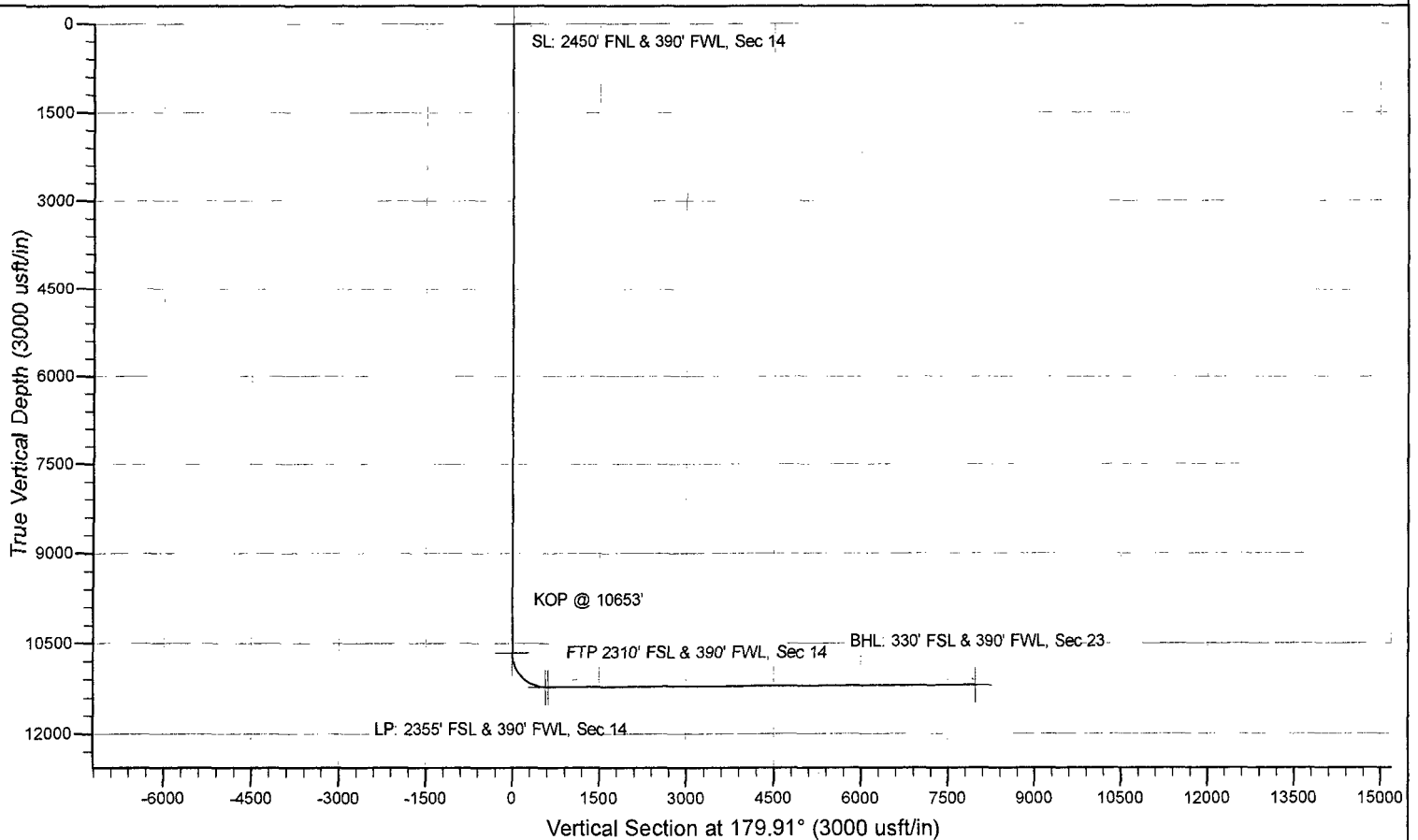
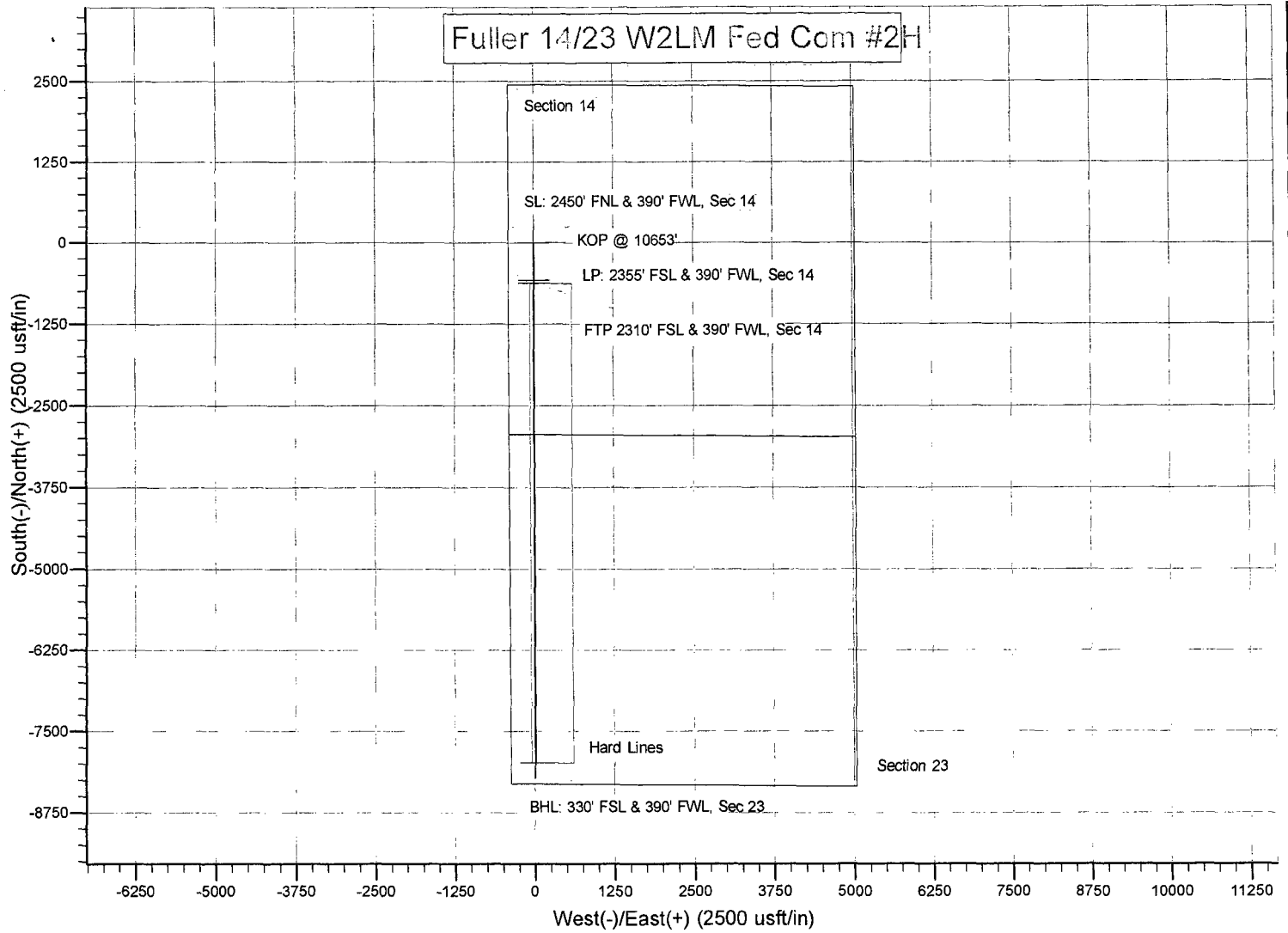
TVD of target	10333'	Pilot hole depth	NA
MD at TD:	18060'	Deepest expected fresh water:	200'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	525	Water	
Top of Salt			
Castile	1510		
Base Salt	2820		
Lamar	3025	Oil/Gas	
Bell Canyon	3055	Oil/Gas	
Cherry Canyon	3925	Oil/Gas	
Manzanita Marker	4095		
Brushy Canyon	5185	Oil/Gas	
Bone Spring	6750	Oil/Gas	
1 st Bone Spring Sand	7715		
2 nd Bone Spring Sand	8270		
3 rd Bone Spring Sand	9610		
Abo			
Wolfcamp	9955	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

Fuller 14/23 W2LM Fed Com #2H



Mewbourne Oil Company

Eddy County, New Mexico

Fuller 14/23 W2LM Fed Com #2H

Sec 14, T26S, R29E

SL: 2450' FNL & 390' FWL, Sec 14

BHL: 330' FSL & 390' FWL, Sec 23

Plan: Design #1

Standard Planning Report

06 January, 2017

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Fuller 14/23 W2LM Fed Com #2H
Well: Sec 14, T26S, R29E
Wellbore: BHL: 330' FSL & 390' FWL, Sec 23
Design: Design #1

Local Co-ordinate Reference: Site Fuller 14/23 W2LM Fed Com #2H
TVD Reference: WELL @ 2963.0usft (Original Well Elev)
MD Reference: WELL @ 2963.0usft (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	Fuller 14/23 W2LM Fed Com #2H			
Site Position:		Northing:	379,410.00 usft	Latitude: 32° 2' 33.241 N
From:	Map	Easting:	615,271.00 usft	Longitude: 103° 57' 40.731 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.20 °

Well	Sec 14, T26S, R29E			
Well Position	+N/-S	0.0 usft	Northing:	379,410.00 usft
	+E/-W	0.0 usft	Easting:	615,271.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	2,963.0 usft
			Ground Level:	2,936.0 usft

Wellbore	BHL: 330' FSL & 390' FWL, Sec 23				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.91	60.00	48,643

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	179.91

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	
10,653.0	0.00	0.00	10,653.0	0.0	0.0	0.00	0.00	0.00	0.00	KOP @ 10653'
11,555.6	90.26	179.91	11,226.0	-575.5	0.9	10.00	10.00	0.00	179.91	
18,953.2	90.26	179.91	11,193.0	-7,973.0	12.0	0.00	0.00	0.00	0.00	BHL: 330' FSL & 390'

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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: 2450' FNL & 390' FWL, Sec 14									
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

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Site: Fuller 14/23 W2LM Fed Com #2H
Well: Sec 14, T26S, R29E
Wellbore: BHL: 330' FSL & 390' FWL, Sec 23
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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
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00

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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)
10,653.0	0.00	0.00	10,653.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 10653'									
10,700.0	4.70	179.91	10,699.9	-1.9	0.0	1.9	10.00	10.00	0.00
10,800.0	14.70	179.91	10,798.4	-18.7	0.0	18.7	10.00	10.00	0.00
10,900.0	24.70	179.91	10,892.4	-52.4	0.1	52.4	10.00	10.00	0.00
11,000.0	34.70	179.91	10,979.2	-101.9	0.2	101.9	10.00	10.00	0.00
11,100.0	44.70	179.91	11,056.0	-165.7	0.2	165.7	10.00	10.00	0.00
11,200.0	54.70	179.91	11,120.6	-241.8	0.4	241.8	10.00	10.00	0.00
11,300.0	64.70	179.91	11,171.0	-328.1	0.5	328.1	10.00	10.00	0.00
11,400.0	74.69	179.91	11,205.7	-421.7	0.6	421.7	10.00	10.00	0.00
11,500.0	84.69	179.91	11,223.6	-520.0	0.8	520.0	10.00	10.00	0.00
11,555.6	90.25	179.91	11,226.0	-575.5	0.9	575.5	10.00	10.00	0.00
LP: 2355' FSL & 390' FWL, Sec 14									
11,600.0	90.26	179.91	11,225.8	-619.9	0.9	619.9	0.00	0.00	0.00
11,600.1	90.26	179.91	11,225.8	-620.0	0.9	620.0	0.00	0.00	0.00
FTP 2310' FSL & 390' FWL, Sec 14									
11,700.0	90.26	179.91	11,225.4	-719.9	1.1	719.9	0.00	0.00	0.00
11,800.0	90.26	179.91	11,224.9	-819.9	1.2	819.9	0.00	0.00	0.00
11,900.0	90.26	179.91	11,224.5	-919.9	1.4	919.9	0.00	0.00	0.00
12,000.0	90.26	179.91	11,224.0	-1,019.9	1.5	1,019.9	0.00	0.00	0.00
12,100.0	90.26	179.91	11,223.6	-1,119.9	1.7	1,119.9	0.00	0.00	0.00
12,200.0	90.26	179.91	11,223.1	-1,219.9	1.8	1,219.9	0.00	0.00	0.00
12,300.0	90.26	179.91	11,222.7	-1,319.9	2.0	1,319.9	0.00	0.00	0.00
12,400.0	90.26	179.91	11,222.2	-1,419.9	2.1	1,419.9	0.00	0.00	0.00
12,500.0	90.26	179.91	11,221.8	-1,519.9	2.3	1,519.9	0.00	0.00	0.00
12,600.0	90.26	179.91	11,221.3	-1,619.9	2.4	1,619.9	0.00	0.00	0.00
12,700.0	90.26	179.91	11,220.9	-1,719.9	2.6	1,719.9	0.00	0.00	0.00
12,800.0	90.26	179.91	11,220.4	-1,819.9	2.7	1,819.9	0.00	0.00	0.00
12,900.0	90.26	179.91	11,220.0	-1,919.9	2.9	1,919.9	0.00	0.00	0.00
13,000.0	90.26	179.91	11,219.6	-2,019.9	3.0	2,019.9	0.00	0.00	0.00
13,100.0	90.26	179.91	11,219.1	-2,119.9	3.2	2,119.9	0.00	0.00	0.00
13,200.0	90.26	179.91	11,218.7	-2,219.9	3.3	2,219.9	0.00	0.00	0.00
13,300.0	90.26	179.91	11,218.2	-2,319.9	3.5	2,319.9	0.00	0.00	0.00
13,400.0	90.26	179.91	11,217.8	-2,419.9	3.6	2,419.9	0.00	0.00	0.00
13,500.0	90.26	179.91	11,217.3	-2,519.9	3.8	2,519.9	0.00	0.00	0.00
13,600.0	90.26	179.91	11,216.9	-2,619.9	3.9	2,619.9	0.00	0.00	0.00
13,700.0	90.26	179.91	11,216.4	-2,719.9	4.1	2,719.9	0.00	0.00	0.00
13,800.0	90.26	179.91	11,216.0	-2,819.9	4.2	2,819.9	0.00	0.00	0.00
13,900.0	90.26	179.91	11,215.5	-2,919.9	4.4	2,919.9	0.00	0.00	0.00
14,000.0	90.26	179.91	11,215.1	-3,019.9	4.5	3,019.9	0.00	0.00	0.00
14,100.0	90.26	179.91	11,214.6	-3,119.9	4.7	3,119.9	0.00	0.00	0.00
14,200.0	90.26	179.91	11,214.2	-3,219.9	4.8	3,219.9	0.00	0.00	0.00
14,300.0	90.26	179.91	11,213.8	-3,319.9	5.0	3,319.9	0.00	0.00	0.00
14,400.0	90.26	179.91	11,213.3	-3,419.9	5.1	3,419.9	0.00	0.00	0.00
14,500.0	90.26	179.91	11,212.9	-3,519.9	5.3	3,519.9	0.00	0.00	0.00
14,600.0	90.26	179.91	11,212.4	-3,619.9	5.4	3,619.9	0.00	0.00	0.00
14,700.0	90.26	179.91	11,212.0	-3,719.9	5.6	3,719.9	0.00	0.00	0.00
14,800.0	90.26	179.91	11,211.5	-3,819.9	5.7	3,819.9	0.00	0.00	0.00
14,900.0	90.26	179.91	11,211.1	-3,919.9	5.9	3,919.9	0.00	0.00	0.00
15,000.0	90.26	179.91	11,210.6	-4,019.9	6.1	4,019.9	0.00	0.00	0.00
15,100.0	90.26	179.91	11,210.2	-4,119.9	6.2	4,119.9	0.00	0.00	0.00
15,200.0	90.26	179.91	11,209.7	-4,219.9	6.4	4,219.9	0.00	0.00	0.00
15,300.0	90.26	179.91	11,209.3	-4,319.9	6.5	4,319.9	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Fuller 14/23 W2LM Fed Com #2H
Well: Sec 14, T26S, R29E
Wellbore: BHL: 330' FSL & 390' FWL, Sec 23
Design: Design #1

Local Co-ordinate Reference: Site Fuller 14/23 W2LM Fed Com #2H
TVD Reference: WELL @ 2963.0usft (Original Well Elev)
MD Reference: WELL @ 2963.0usft (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	90.26	179.91	11,208.9	-4,419.9	6.7	4,419.9	0.00	0.00	0.00
15,500.0	90.26	179.91	11,208.4	-4,519.9	6.8	4,519.9	0.00	0.00	0.00
15,600.0	90.26	179.91	11,208.0	-4,619.9	7.0	4,619.9	0.00	0.00	0.00
15,700.0	90.26	179.91	11,207.5	-4,719.9	7.1	4,719.9	0.00	0.00	0.00
15,800.0	90.26	179.91	11,207.1	-4,819.9	7.3	4,819.9	0.00	0.00	0.00
15,900.0	90.26	179.91	11,206.6	-4,919.9	7.4	4,919.9	0.00	0.00	0.00
16,000.0	90.26	179.91	11,206.2	-5,019.9	7.6	5,019.9	0.00	0.00	0.00
16,100.0	90.26	179.91	11,205.7	-5,119.9	7.7	5,119.9	0.00	0.00	0.00
16,200.0	90.26	179.91	11,205.3	-5,219.9	7.9	5,219.9	0.00	0.00	0.00
16,300.0	90.26	179.91	11,204.8	-5,319.9	8.0	5,319.9	0.00	0.00	0.00
16,400.0	90.26	179.91	11,204.4	-5,419.9	8.2	5,419.9	0.00	0.00	0.00
16,500.0	90.26	179.91	11,203.9	-5,519.9	8.3	5,519.9	0.00	0.00	0.00
16,600.0	90.26	179.91	11,203.5	-5,619.9	8.5	5,619.9	0.00	0.00	0.00
16,700.0	90.26	179.91	11,203.1	-5,719.9	8.6	5,719.9	0.00	0.00	0.00
16,800.0	90.26	179.91	11,202.6	-5,819.9	8.8	5,819.9	0.00	0.00	0.00
16,900.0	90.26	179.91	11,202.2	-5,919.9	8.9	5,919.9	0.00	0.00	0.00
17,000.0	90.26	179.91	11,201.7	-6,019.9	9.1	6,019.9	0.00	0.00	0.00
17,100.0	90.26	179.91	11,201.3	-6,119.9	9.2	6,119.9	0.00	0.00	0.00
17,200.0	90.26	179.91	11,200.8	-6,219.8	9.4	6,219.9	0.00	0.00	0.00
17,300.0	90.26	179.91	11,200.4	-6,319.8	9.5	6,319.9	0.00	0.00	0.00
17,400.0	90.26	179.91	11,199.9	-6,419.8	9.7	6,419.9	0.00	0.00	0.00
17,500.0	90.26	179.91	11,199.5	-6,519.8	9.8	6,519.9	0.00	0.00	0.00
17,600.0	90.26	179.91	11,199.0	-6,619.8	10.0	6,619.9	0.00	0.00	0.00
17,700.0	90.26	179.91	11,198.6	-6,719.8	10.1	6,719.9	0.00	0.00	0.00
17,800.0	90.26	179.91	11,198.1	-6,819.8	10.3	6,819.9	0.00	0.00	0.00
17,900.0	90.26	179.91	11,197.7	-6,919.8	10.4	6,919.9	0.00	0.00	0.00
18,000.0	90.26	179.91	11,197.3	-7,019.8	10.6	7,019.8	0.00	0.00	0.00
18,100.0	90.26	179.91	11,196.8	-7,119.8	10.7	7,119.8	0.00	0.00	0.00
18,200.0	90.26	179.91	11,196.4	-7,219.8	10.9	7,219.8	0.00	0.00	0.00
18,300.0	90.26	179.91	11,195.9	-7,319.8	11.0	7,319.8	0.00	0.00	0.00
18,400.0	90.26	179.91	11,195.5	-7,419.8	11.2	7,419.8	0.00	0.00	0.00
18,500.0	90.26	179.91	11,195.0	-7,519.8	11.3	7,519.8	0.00	0.00	0.00
18,600.0	90.26	179.91	11,194.6	-7,619.8	11.5	7,619.8	0.00	0.00	0.00
18,700.0	90.26	179.91	11,194.1	-7,719.8	11.6	7,719.8	0.00	0.00	0.00
18,800.0	90.26	179.91	11,193.7	-7,819.8	11.8	7,819.8	0.00	0.00	0.00
18,900.0	90.26	179.91	11,193.2	-7,919.8	11.9	7,919.8	0.00	0.00	0.00
18,953.2	90.26	179.91	11,193.0	-7,973.0	12.0	7,973.0	0.00	0.00	0.00

BHL: 330' FSL & 390' FWL, Sec 23

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Fuller 14/23 W2LM Fed Com #2H
Well: Sec 14, T26S, R29E
Wellbore: BHL: 330' FSL & 390' FWL, Sec 23
Design: Design #1

Local Co-ordinate Reference: Site Fuller 14/23 W2LM Fed Com #2H
TVD Reference: WELL @ 2963.0usft (Original Well Elev)
MD Reference: WELL @ 2963.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
SL: 2450' FNL & 390' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	379,410.00	615,271.00	32° 2' 33.241 N	103° 57' 40.731 W
KOP @ 10653' - plan hits target center - Point	0.00	0.00	10,653.0	0.0	0.0	379,410.00	615,271.00	32° 2' 33.241 N	103° 57' 40.731 W
BHL: 330' FSL & 390' FV - plan hits target center - Point	0.00	0.00	11,193.0	-7,973.0	12.0	371,437.00	615,283.00	32° 1' 14.336 N	103° 57' 40.911 W
FTP 2310' FSL & 390' FV - plan hits target center - Point	0.00	0.00	11,225.8	-620.0	0.9	378,790.00	615,271.94	32° 2' 27.106 N	103° 57' 40.745 W
LP: 2355' FSL & 390' FV - plan hits target center - Point	0.00	0.00	11,226.0	-575.5	0.9	378,834.50	615,271.90	32° 2' 27.546 N	103° 57' 40.744 W

Mewbourne Oil Company, Fuller 14/23 W1LM Fed Com #2H

Sec 14, T26S, R29E

SL: 2450' FNL & 390' FWL, Sec 14

BHL: 330' FSL & 390' FWL, Sec 23

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'	450'	13.375"	48	H40	STC	3.29	7.39	14.91	25.05
12.25"	0'	2950'	9.625"	36	J55	LTC	1.32	2.29	4.27	5.31
8.75"	0'	10460'	7"	26	HCP110	LTC	1.54	1.96	2.55	3.05
6.125"	9760'	18060'	4.5"	13.5	P110	LTC	1.53	1.78	3.02	3.77
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, Fuller 14/23 W1LM Fed Com #2H

Sec 14, T26S, R29E

SL: 2450' FNL & 390' FWL, Sec 14

BHL: 330' FSL & 390' FWL, Sec 23

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft³/ sack	H₂O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	250	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.	420	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.	470	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	340	11.2	2.97	17	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, etc.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	2750'	25%
Liner	9760'	25%

Mewbourne Oil Company, Fuller 14/23 WILM Fed Com #2H
Sec 14, T26S, R29E
SL: 2450' FNL & 390' FWL, Sec 14
BHL: 330' FSL & 390' FWL, Sec 23

4. Pressure Control Equipment

	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"	3M	Annular	X	1500#
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13 5/8"	5M	Annular	X	2500#
			Blind Ram	X	5000#
			Pipe Ram	X	
			Double Ram		
			Other*		
6-1/8"	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.
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Mewbourne Oil Company, Fuller 14/23 WILM Fed Com #2H

Sec 14, T26S, R29E

SL: 2450' FNL & 390' FWL, Sec 14

BHL: 330' FSL & 390' FWL, Sec 23

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?
N	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.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	450'	FW Gel	8.6-8.8	28-34	N/C
450'	2950'	Saturated Brine	10.0	28-34	N/C
2950'	9760'	Cut Brine	8.6-9.7	28-34	N/C
9760'	18060'	OBM	10.0-13.0	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. 13.0 ppg mud is for shale control. The highest mud weight required to balance the formation is expected to be 12.0 ppg.

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

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (9760') 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	9760' (KOP) to TD
Density	
CBL	
Mud log	
PEX	

Mewbourne Oil Company, Fuller 14/23 W1LM Fed Com #2H
Sec 14, T26S, R29E
SL: 2450' FNL & 390' FWL, Sec 14
BHL: 330' FSL & 390' FWL, Sec 23

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6448 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 (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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.	
	H ₂ S is present
X	H ₂ S Plan attached

8. Water & Waste Volumes

Fresh Water Required: 2975 bbl

Waste Water: 2975 bbl

Waste Solids: 1975 bbl

9. 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

13 3/8 Segment	surface csg in a #/ft	Grade	17 1/2 Coupling	inch hole. Joint	Design Factors Collapse Burst		SURFACE Length Weight		
"A"	48.00	H 40	ST&C	14.91	3.74	1.13	450	21,600	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,015				Tail Cmt	does not	circ to sfc.	Totals:	450 21,600	
<u>Comparison of Proposed to Minimum Required Cement Volumes</u>									
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	450	798	367	117	8.80	883	2M	1.56

9 5/8 Segment	casing inside the #/ft	Grade	13 3/8	Coupling	Joint	Design Factors		INTERMEDIATE	
"A"	36.00	J 55		LT&C	4.27	Collapse	Burst	Length	Weight
"B"						1.32	0.68	2,950	106,200
								0	0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	2,950	106,200
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		450	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
12 1/4	0.3132	620	1158	971	19	10.00	2933	3M	0.81

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.19, b, c, d
All > 0.70, OK.

7	casing inside the			9 5/8	Design Factors			PRODUCTION	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	26.00	HCP 110		LT&C	2.58	1.59	1.42	9,760	253,760
"B"	26.00	HCP 110		LT&C	5.35	1.38	1.42	700	18,200
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,147							Totals:	10,460	271,960
B	would be:				46.52	1.50	if it were a vertical wellbore.		
No Pilot Hole Planned			MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity ^c	MEOC
			10460	10333	10333	9760	90	10	10663
The cement volume(s) are intended to achieve a top of					2750	ft from surface or a		200	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
8 3/4	0.1503	870	1468	1172	25	9.70	4528	5M	0.55
MASP is within 10% of 5000psig, need exrta equip?									

Tail cmt 4 1/2					Liner w/top @ 9760		<u>Design Factors</u>		LINER	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight		
"A"	13.50	P 110	LT&C	2.32	1.41	1.77	1,796	24,246		
"B"	13.50	P 110	LT&C	2.66	1.53	1.77	6,504	87,804		
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,470							Totals:	8,300	112,050	
Aegment Design Factors would be:				3.02	1.53	if it were a vertical wellbore.				
No Pilot Hole Planned			MTD	Max VTD	Csg VD	Curve KOP	Dogleg ^o	Severity ^o	MEOC	
			18060	11226	11226	10653	90	10	11556	
The cement volume(s) are intended to achieve a top of					9760	ft from surface or a		700	overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist	
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg	
6 1/8	0.0942	340	1010	792	27	12.00			0.56	
Class 'H' tail cmt yld > 1.20			Capitan Reef est top XXXX.			MASP is within 10% of 5000psig, need exrta equip?				