

OCD Hobbs

Form 3160-3
(March 2012)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No. **BHL NMNM 128927**
NMNM 105561

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER **ATS-14-937**
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone7. If Unit or CA Agreement, Name and No.
NMNM125386A, Red Hills West Unit-8. Lease Name and Well No.
Red Hills West Unit #011H **(39542)**2. Name of Operator Mewbourne Oil Company **(14744)**9. API Well No.
30-025-423363a. Address PO Box 5270
Hobbs, NM 882413b. Phone No. (include area code)
575-393-590510. Field and Pool, or Exploratory
Jennings Upper Bone Spring Shale **(97838)**

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 330' FNL & 215' FWL, Sec. 10 T26S R32E

At proposed prod. zone 330' FSL & 330' FWL, Sec. 10 T26S R32E

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 10 T26S R32E14. Distance in miles and direction from nearest town or post office*
29 miles west of Jal, NM12. County or Parish
Lea 13. State
NM15. Distance from proposed* location to nearest property or lease line, ft.
(Also to nearest drig. unit line, if any) 215'16. No. of acres in lease
NMNM 105561 - 200 acres17. Spacing Unit dedicated to this well
160

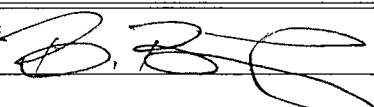
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1000' - MOC RHWU #010H

19. Proposed Depth
13,511.7' - MD
9,070.0' - TVD20. BLM/BIA Bond No. on file
NM1693 nationwide, NMB-00091921. Elevations (Show whether DF, KDB, RT, GL, etc.)
3250' - GL22. Approximate date work will start*
09/15/201423. Estimated duration
60 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 
TitleName (Printed/Typed)
Bradley BishopDate
07/01/2014Approved by (Signature) **Steve Caffey**
Title
FIELD MANAGER

Name (Printed/Typed)

Date **DEC 12 2014**

Office

CARLSBAD FIELD OFFICE
CARLSBAD FIELD OFFICEApplication approval 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.
Conditions of approval, if any, are attached.**APPROVAL FOR TWO YEARS**

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.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

KZ
12/12/14**7**SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached**DEC 15 2014**

Mewbourne Oil Company

Lea County, New Mexico
Red Hills West Unit #011H
Sec 10, T26S, R32E
SL: 330 FNL & 215 FWL
BHL: 330 FSL & 215 FWL

Plan: Design #1

Standard Planning Report

01 July, 2014

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Red Hills West Unit #011H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3270.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3270.0usft (Original Well Elev)
Site:	Red Hills West Unit #011H	North Reference:	Grid
Well:	Sec 10, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330 FSL & 215 FWL		
Design:	Design #1		

Project:	Lea 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	Red Hills West Unit #011H				
Site Position:		Northing:	387,618.90 usft	Latitude:	32° 3' 50.202 N
From:	Map	Easting:	705,407.90 usft	Longitude:	103° 40' 12.942 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.35 °

Well:	Sec 10, T26S, R32E					
Well Position	+N/-S	0.0 usft	Northing:	387,618.90 usft	Latitude:	32° 3' 50.202 N
	+E/-W	0.0 usft	Easting:	705,407.90 usft	Longitude:	103° 40' 12.942 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,270.0 usft	Ground Level:	3,250.0 usft

Wellbore		BHL: 330 FSL & 215 FWL			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/1/2014	7.25	59.95	48,206

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	179.34

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	
8,497.0	0.00	0.00	8,497.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,397.1	90.00	179.34	9,070.0	-573.0	6.6	10.00	10.00	0.00	179.34	
13,511.7	90.00	179.34	9,070.0	-4,687.3	54.1	0.00	0.00	0.00	0.00	PBHL (330 FSL & 215

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Lea County, New Mexico
 Site: Red Hills West Unit #011H
 Well: Sec 10, T26S, R32E
 Wellbore: BHL: 330 FSL & 215 FWL
 Design: Design #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Site Red Hills West Unit #011H
 WELL @ 3270.0usft (Original Well Elev)
 WELL @ 3270.0usft (Original Well Elev)
 Grid
 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
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
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Lea County, New Mexico
 Site: Red Hills West Unit #011H
 Well: Sec 10, T26S, R32E
 Wellbore: BHL: 330 FSL & 215 FWL
 Design: Design #1

Local Co-ordinate Reference: Site Red Hills West Unit #011H
 TVD Reference: WELL @ 3270.0usft (Original Well Elev)
 MDI Reference: WELL @ 3270.0usft (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)
5,400.0	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
8,497.0	0.00	0.00	8,497.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 8497									
8,500.0	0.30	179.34	8,500.0	0.0	0.0	0.0	10.00	10.00	0.00
8,600.0	10.30	179.34	8,599.4	-9.2	0.1	9.2	10.00	10.00	0.00
8,700.0	20.30	179.34	8,695.8	-35.6	0.4	35.6	10.00	10.00	0.00
8,800.0	30.30	179.34	8,786.1	-78.3	0.9	78.3	10.00	10.00	0.00
8,900.0	40.30	179.34	8,867.6	-136.0	1.6	136.0	10.00	10.00	0.00
9,000.0	50.30	179.34	8,937.8	-206.9	2.4	207.0	10.00	10.00	0.00
9,100.0	60.30	179.34	8,994.7	-289.0	3.3	289.1	10.00	10.00	0.00
9,200.0	70.29	179.34	9,036.4	-379.8	4.4	379.8	10.00	10.00	0.00
9,300.0	80.29	179.34	9,061.8	-476.4	5.5	476.4	10.00	10.00	0.00
9,397.1	90.00	179.34	9,070.0	-573.0	6.6	573.0	10.00	10.00	0.00
LP @ 9397 MD (903 FNL & 222 FWL)									
9,400.0	90.00	179.34	9,070.0	-575.9	6.6	575.9	0.00	0.00	0.00
9,500.0	90.00	179.34	9,070.0	-675.9	7.8	675.9	0.00	0.00	0.00
9,600.0	90.00	179.34	9,070.0	-775.9	9.0	775.9	0.00	0.00	0.00
9,700.0	90.00	179.34	9,070.0	-875.9	10.1	875.9	0.00	0.00	0.00
9,800.0	90.00	179.34	9,070.0	-975.9	11.3	975.9	0.00	0.00	0.00
9,900.0	90.00	179.34	9,070.0	-1,075.9	12.4	1,075.9	0.00	0.00	0.00
10,000.0	90.00	179.34	9,070.0	-1,175.9	13.6	1,175.9	0.00	0.00	0.00
10,100.0	90.00	179.34	9,070.0	-1,275.8	14.7	1,275.9	0.00	0.00	0.00
10,200.0	90.00	179.34	9,070.0	-1,375.8	15.9	1,375.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Red Hills West Unit #011H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3270.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3270.0usft (Original Well Elev)
Site:	Red Hills West Unit #011H	North Reference:	Grid
Well:	Sec 10, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330 FSL & 215 FWL		
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)	
10,300.0	90.00	179.34	9,070.0	-1,475.8	17.0	1,475.9	0.00	0.00	0.00	
10,400.0	90.00	179.34	9,070.0	-1,575.8	18.2	1,575.9	0.00	0.00	0.00	
10,500.0	90.00	179.34	9,070.0	-1,675.8	19.3	1,675.9	0.00	0.00	0.00	
10,600.0	90.00	179.34	9,070.0	-1,775.8	20.5	1,775.9	0.00	0.00	0.00	
10,700.0	90.00	179.34	9,070.0	-1,875.8	21.7	1,875.9	0.00	0.00	0.00	
10,800.0	90.00	179.34	9,070.0	-1,975.8	22.8	1,975.9	0.00	0.00	0.00	
10,900.0	90.00	179.34	9,070.0	-2,075.8	24.0	2,075.9	0.00	0.00	0.00	
11,000.0	90.00	179.34	9,070.0	-2,175.8	25.1	2,175.9	0.00	0.00	0.00	
11,100.0	90.00	179.34	9,070.0	-2,275.8	26.3	2,275.9	0.00	0.00	0.00	
11,200.0	90.00	179.34	9,070.0	-2,375.8	27.4	2,375.9	0.00	0.00	0.00	
11,300.0	90.00	179.34	9,070.0	-2,475.8	28.6	2,475.9	0.00	0.00	0.00	
11,400.0	90.00	179.34	9,070.0	-2,575.8	29.7	2,575.9	0.00	0.00	0.00	
11,500.0	90.00	179.34	9,070.0	-2,675.8	30.9	2,675.9	0.00	0.00	0.00	
11,600.0	90.00	179.34	9,070.0	-2,775.7	32.0	2,775.9	0.00	0.00	0.00	
11,700.0	90.00	179.34	9,070.0	-2,875.7	33.2	2,875.9	0.00	0.00	0.00	
11,800.0	90.00	179.34	9,070.0	-2,975.7	34.4	2,975.9	0.00	0.00	0.00	
11,900.0	90.00	179.34	9,070.0	-3,075.7	35.5	3,075.9	0.00	0.00	0.00	
12,000.0	90.00	179.34	9,070.0	-3,175.7	36.7	3,175.9	0.00	0.00	0.00	
12,100.0	90.00	179.34	9,070.0	-3,275.7	37.8	3,275.9	0.00	0.00	0.00	
12,200.0	90.00	179.34	9,070.0	-3,375.7	39.0	3,375.9	0.00	0.00	0.00	
12,300.0	90.00	179.34	9,070.0	-3,475.7	40.1	3,475.9	0.00	0.00	0.00	
12,400.0	90.00	179.34	9,070.0	-3,575.7	41.3	3,575.9	0.00	0.00	0.00	
12,500.0	90.00	179.34	9,070.0	-3,675.7	42.4	3,675.9	0.00	0.00	0.00	
12,600.0	90.00	179.34	9,070.0	-3,775.7	43.6	3,775.9	0.00	0.00	0.00	
12,700.0	90.00	179.34	9,070.0	-3,875.7	44.7	3,875.9	0.00	0.00	0.00	
12,800.0	90.00	179.34	9,070.0	-3,975.7	45.9	3,975.9	0.00	0.00	0.00	
12,900.0	90.00	179.34	9,070.0	-4,075.7	47.0	4,075.9	0.00	0.00	0.00	
13,000.0	90.00	179.34	9,070.0	-4,175.7	48.2	4,175.9	0.00	0.00	0.00	
13,100.0	90.00	179.34	9,070.0	-4,275.6	49.4	4,275.9	0.00	0.00	0.00	
13,200.0	90.00	179.34	9,070.0	-4,375.6	50.5	4,375.9	0.00	0.00	0.00	
13,300.0	90.00	179.34	9,070.0	-4,475.6	51.7	4,475.9	0.00	0.00	0.00	
13,400.0	90.00	179.34	9,070.0	-4,575.6	52.8	4,575.9	0.00	0.00	0.00	
13,500.0	90.00	179.34	9,070.0	-4,675.6	54.0	4,675.9	0.00	0.00	0.00	
13,511.7	90.00	179.34	9,070.0	-4,687.3	54.1	4,687.6	0.00	0.00	0.00	
PBHL (330 FSL & 215 FWL)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
KOP @ 8497 - hit/miss target - Shape - Point	0.00	0.01	8,497.0	0.0	0.0	387,618.90	705,407.90	32° 3' 50.202 N		103° 40' 12.942 W
PBHL (330 FSL & 215 F) - plan hits target center - Point	0.00	0.00	9,070.0	-4,687.3	54.1	382,931.60	705,462.01	32° 3' 3.814 N		103° 40' 12.648 W
LP @ 9397 MD (903 FN) - plan hits target center - Point	0.00	0.00	9,070.0	-573.0	6.6	387,045.90	705,414.50	32° 3' 44.531 N		103° 40' 12.907 W

Planning Report

Database:	Hobbs	Local Co-ordinate/Reference:	Site Red Hills West Unit #011H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3270.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3270.0usft (Original Well Elev)
Site:	Red Hills West Unit #011H	North Reference:	Grid
Well:	Sec 10, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330 FSL & 215 FWL		
Design:	Design #1		

13 5/8" 2M BOPE & Closed Loop Equipment Schematic

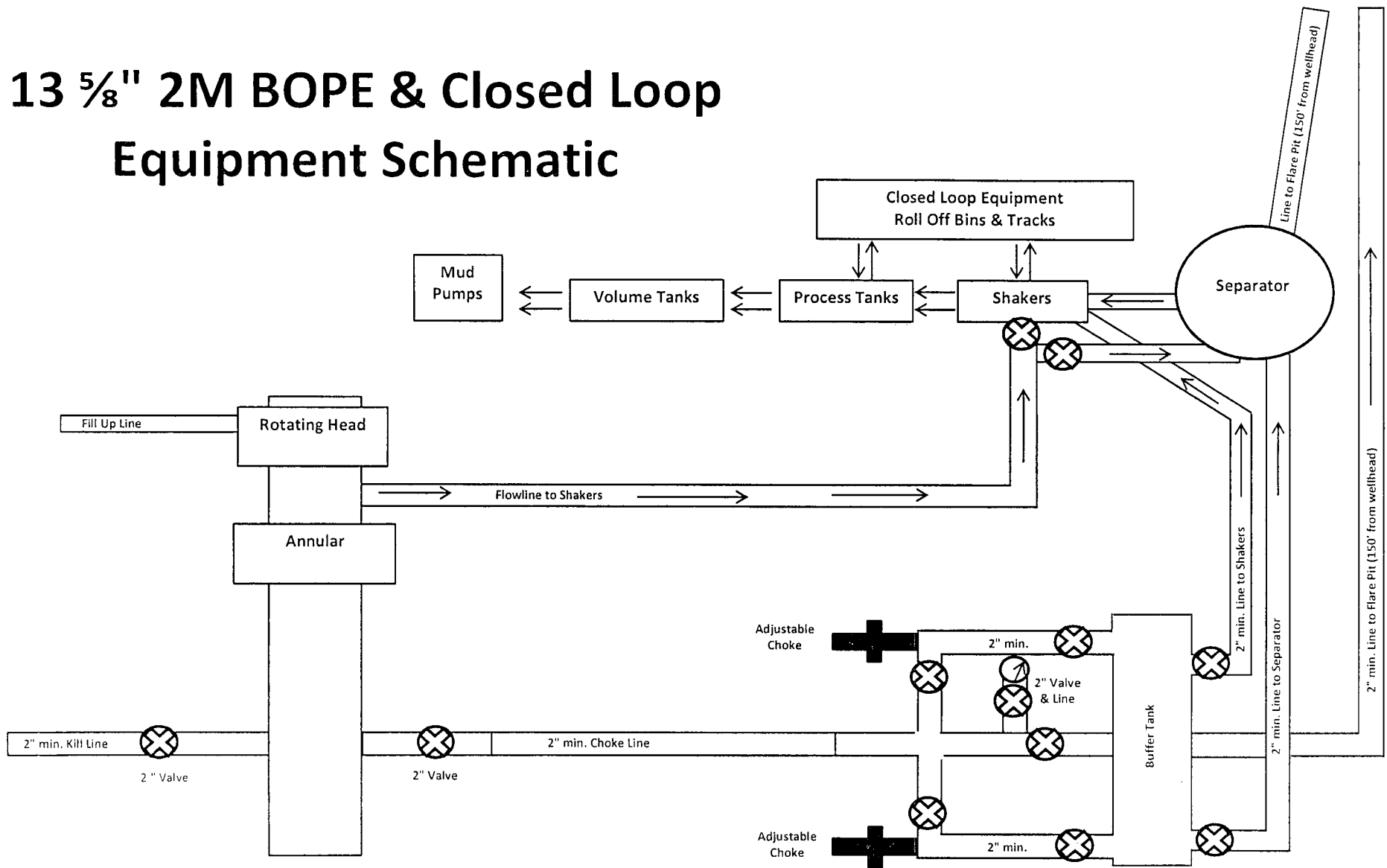
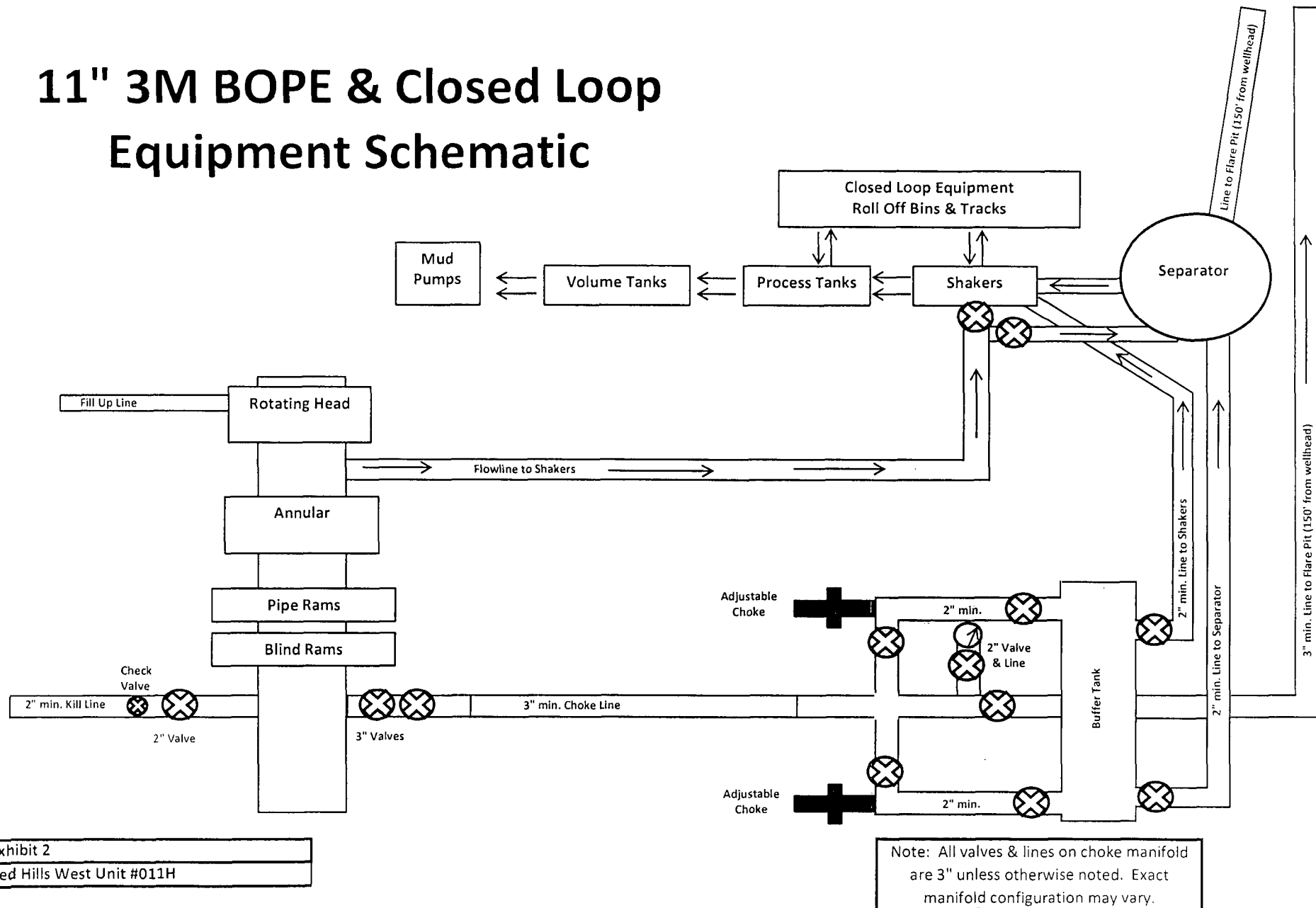


Exhibit 2A
Red Hills West Unit #011H

11" 3M BOPE & Closed Loop Equipment Schematic



Notes Regarding Blowout Preventer

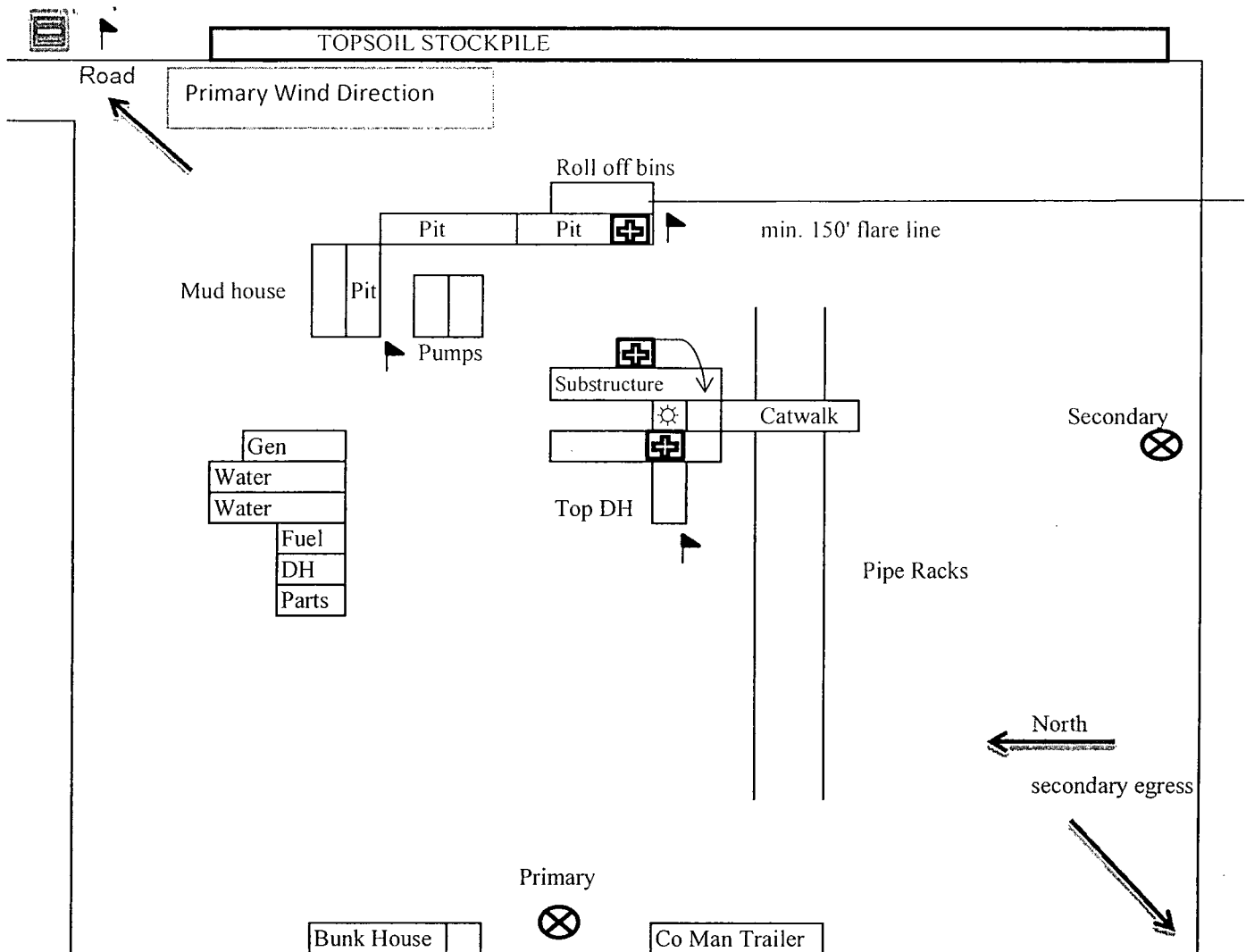
Mewbourne Oil Company

Red Hills West Unit #011H
330' FNL & 215' FWL (SHL)

Sec 10-T26S-R32E
Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi working pressure on 9 5/8" and 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.



= Warning Signs



= Wind Markers



= H2S Monitors



= Safety Stations

Mewbourne Oil Company
 Red Hills West Unit #011H
 330' FNL & 215' FWL
 Sec. 10 T26S R32E
 Lea County, NM

Drilling Program
Mewbourne Oil Company
 Red Hills West Unit #011H
 330' FNL & 215' FWL (SHL)
 Sec 10-T26S-R32E
 Lea County, New Mexico

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

Rustler	935'
Top Salt	1275'
Base Salt/Tansil	4290'
Delaware	4520'
Bell Canyon	4550'
Cherry Canyon	5610'
Manzanita Marker	5750'
*Brushy Canyon	7245'
*Bone Spring	8640'

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

Water	Fresh water is anticipated at 240' and will be protected by setting surface casing at 960' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 2000# WP Annular will be installed after running 13 3/8" casing. A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 9 5/8" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPE will be inspected and operated as recommended in Onshore Order #2. A kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the kelly is not in use. Will test the 13 3/8" annular to 1250' and the 9 5/8" BOPE to 3000# and annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. Drilling Program:

MOC proposes to drill a vertical wellbore to 8497' & kick off to horizontal @ 9070' TVD. The well will be drilled to 13511' MD (9070' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-960' 1040'	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-3400'	LT&C
12 1/4"	9 5/8" (new)	40#	J55	3400'-4300'	LT&C
12 1/4"	9 5/8" (new)	40#	N80	4300'-4450'	LT&C
8 3/4"	5 1/2" (new)	17#	P110	0-8497' MD	LT&C
8 3/4"	5 1/2" (new)	17#	P110	8497'-9397' MD	BT&C
8 3/4"	5 1/2" (new)	17#	P110	9397'- TD	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.

*Subject to availability of casing.

B. Cementing Program:

- i. Surface Casing: 510 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.12 cuft/sk. Mix @ 11.17 gal/sk FW. 200 sacks Class "C" cement w/2% CaCl₂. Yield at 1.34 cuft/sk. Mix @ 6.34 gal/sk FW. Cmt circulated to surface w/100% excess.
- ii. Intermediate Casing: 700 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.12 cuft/sk. Mix @ 11.17 gal/sk FW. 200 sacks Class "C" cement w/2% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.34 gal/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 1000 sacks Class H light cement (15:61:11) with fluid loss, LCM, & salt additives. Yield at 2.99 cuft/sk. Mix @ 17.43 gal/sk. Cmt calculated to tie back 200' into 9 5/8" casing @ 4250' w/25% excess.

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

6. Mud Program:

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-980'	FW spud mud	8.6-9.0	32-34	NA
980'-4450'	Brine water	10.0-10.2	28-30	NA
4450'-8497'	FW mud	8.6-8.8	28-30	NA
8497'- TD	FW w/Polymer	8.5-8.7	32-35	15

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

7. Evaluation Program:

Samples: 10' samples from surface casing to TD
Logging: Gyro from KOP-100' (8397') to surface and GR from 8397' to TD. Cased hole logs (GR & CNL) will be ran during completion process from 8397' to surface.

8. Downhole Conditions

Zones of abnormal pressure: None anticipated
Zones of lost circulation: Anticipated in surface and intermediate holes
Maximum bottom hole temperature: 120 degree F
Maximum bottom hole pressure: 8.3 lbs/gal gradient or less (.43368 x 9070'=3933.48 psi)

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 60 days involved in drilling operations and an additional 20 days involved in completion operations on the project.