

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.

Field Office

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

8. Well Name and No. Pepper Ridge 13
SALADO DRAW 10 WOPA FEDERAL 2H
com 1

9. API Well No.
30-025-42837-00-X1 ✓

10. Field and Pool, or Exploratory
RED HILLS

11. County or Parish, and State
LEA COUNTY, NM

TYPE OF ACTION

☒ Other
Change to Original A
PD

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

Date 07/12/2016

Office Hobbs

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

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM002965A
WELL NAME & NO.:	2H- Salado Draw 10 W0PA Federal
SURFACE HOLE FOOTAGE:	185'/N & 500'/E
BOTTOM HOLE FOOTAGE:	330'/N & 330'/E
LOCATION:	Section 15, T. 26 S., R. 33 E., NMPM
COUNTY:	Lea County, New Mexico

A. CASING

All previous COAs still apply except for the following:

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Salado and Delaware.

1. The 13-3/8 inch surface casing shall be set at approximately 1030 feet and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.

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 is to include the lead cement slurry.**
 - 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 is:
- ☒ Cement to surface. If cement does not circulate see A.1.a, c-d above. **Excess calculates to 19% - Additional cement might be required.**

Formation below the 9 5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

3. The minimum required fill of cement behind the **7 inch** production casing is:
- ☒ 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 as proposed. Operator shall provide method of verification.
5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi (2M annular being used). In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).**
4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be **10,000 (10M) psi.**

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear

chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

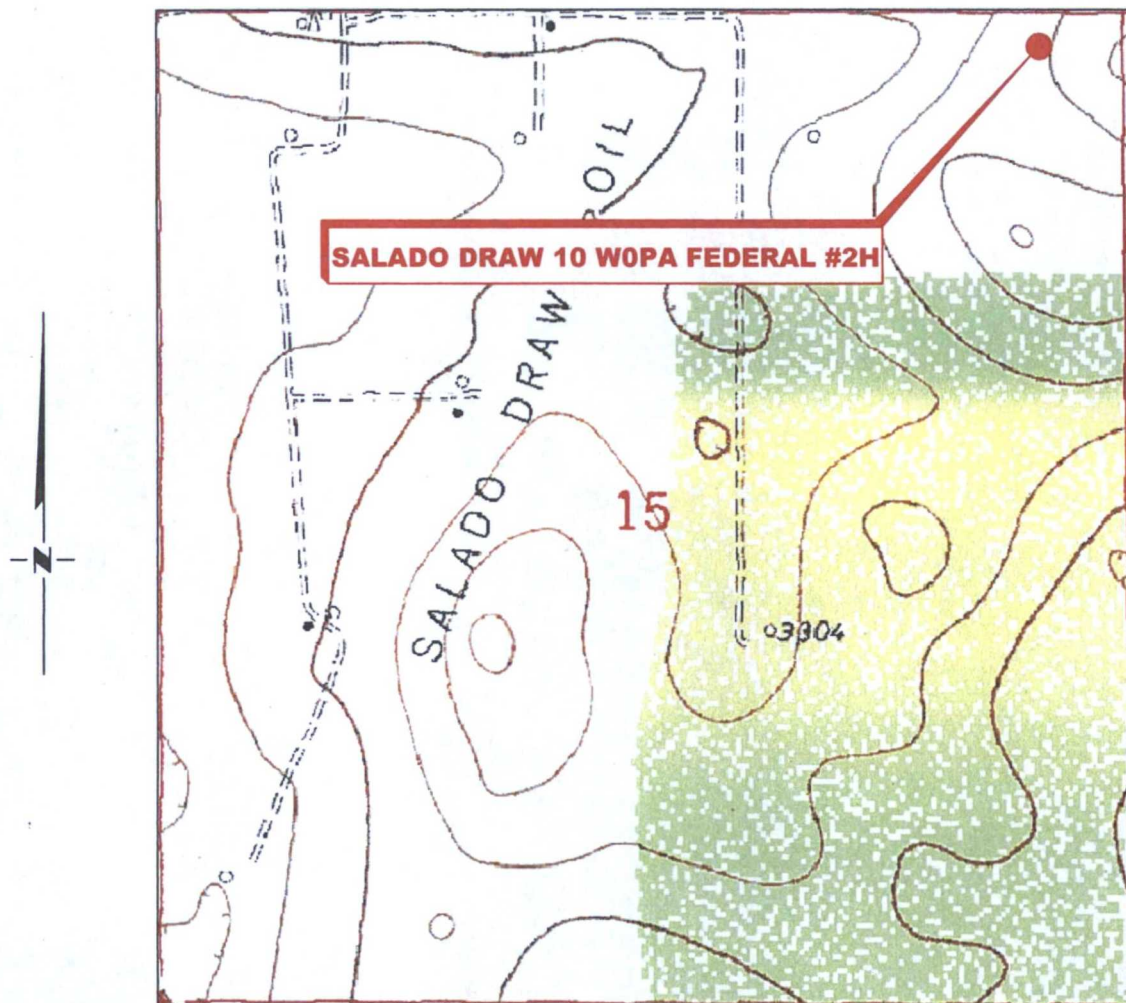
B. SPECIAL REQUIREMENT(S)

Well Name

Operator shall submit a sundry to add "Com" to the well name.

MHH 11012016

LOCATION VERIFICATION MAP



SECTION 15, TWP. 26 SOUTH, RGE. 33 EAST,
N. M. P. M., LEA CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company
LEASE: Salado Draw 10 WOPA Federal
WELL NO.: 2H
ELEVATION: 3328'

LOCATION: 185' FNL & 500' FEL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Paduca Breaks East, NM (1973)

Firm No.: TX 10193838 NM 4655451

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NO.	REVISION	DATE
JOB NO.:	LS1505223	
DWG. NO.:	1505223LVM	

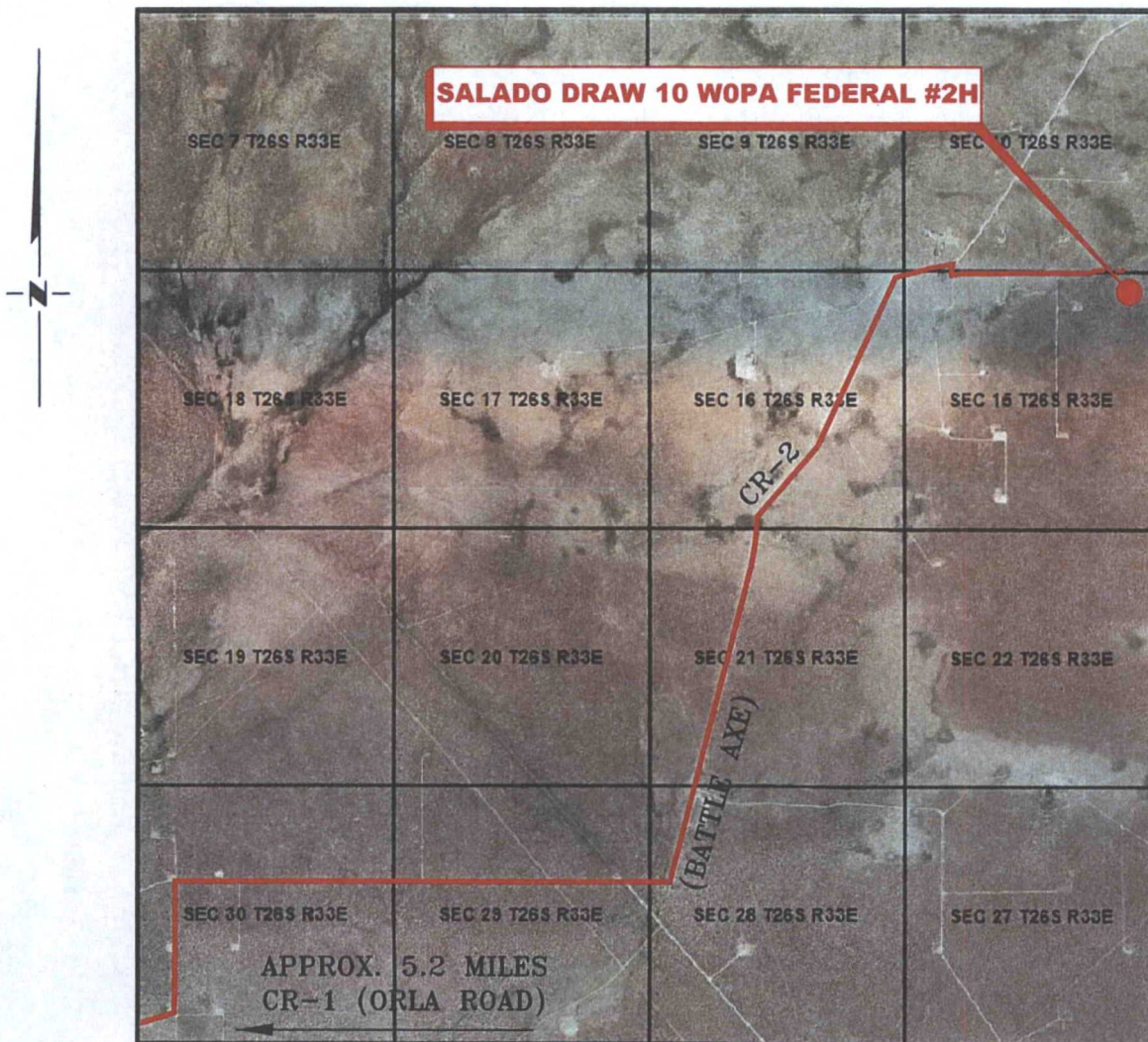
RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 5-12-15
SURVEYED BY: BK/ER
DRAWN BY: JC
APPROVED BY: RMH
SHEET : 1 OF 1

VICINITY MAP

NOT TO SCALE



*SECTION 15, TWP. 26 SOUTH, RGE. 33 EAST,
N. M. P. M., LEA COUNTY, NEW MEXICO*

OPERATOR: Mewbourne Oil Company
 LEASE: Salado Draw 10 WOPA Federal
 WELL NO.: 2H

LOCATION: 185' FNL & 500' FEL
 ELEVATION: 3328'

Firm No.: TX 10193838 NM 4655451

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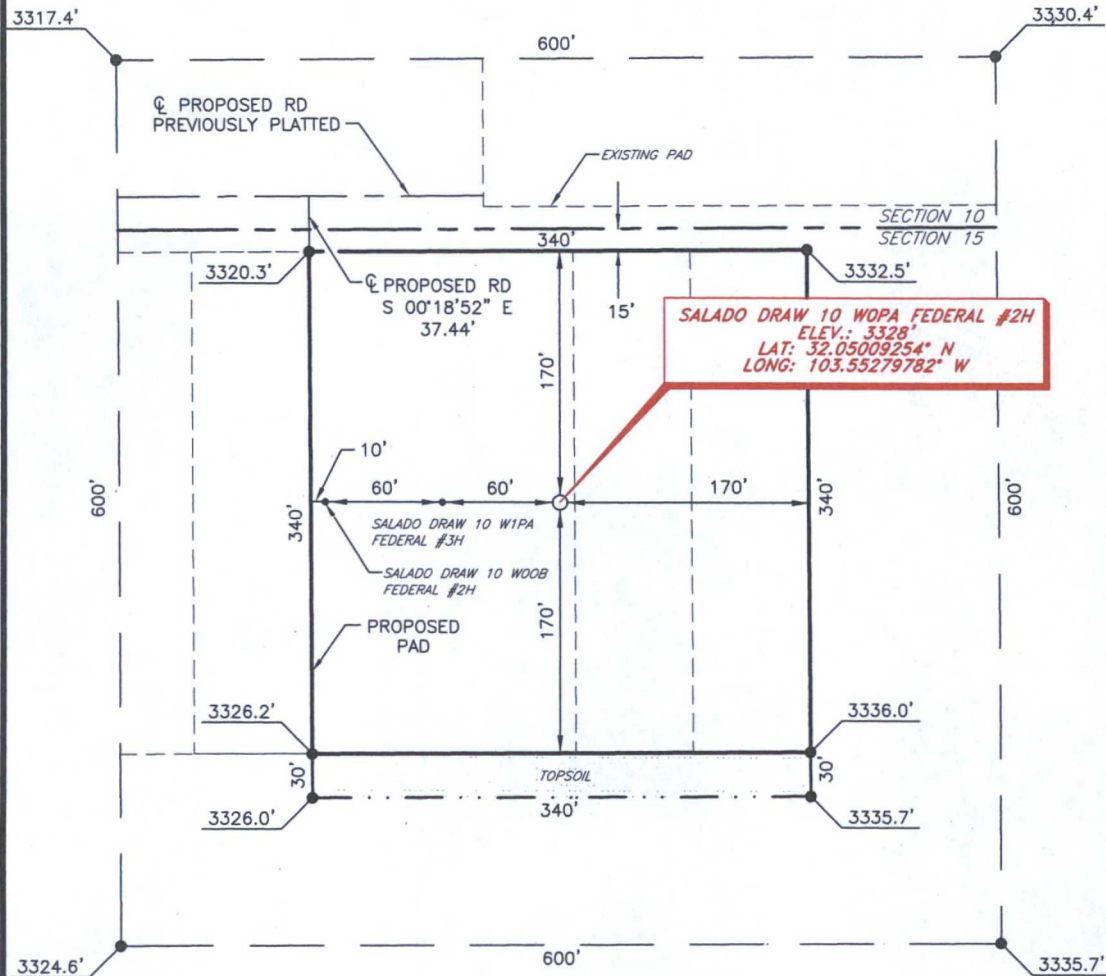
NO.	REVISION	DATE
JOB NO.: LS1505223		
DWG. NO.: 1505223VM		

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 5-12-15
SURVEYED BY: BK/ER
DRAWN BY: JC
APPROVED BY: RMH
SHEET : 1 OF 1

MEWBOURNE OIL COMPANY
SALADO DRAW 10 WOPA FEDERAL #2H
(185' FNL & 500' FEL)
SECTION 15, T26S, R33E
N. M. P. M., LEA CO., NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR-1 (Orla Rd.) and CR-2 (Battle Axe Rd.)
 Go East on CR-2 approx. 10.5 miles to a lease road on the right;
 Turn right and go South approx. 256 feet thru fence to lease road on left;
 Turn left and go East approx. 0.4 miles to proposed road;
 Continue East following proposed approx. 0.3 miles to proposed road on right;
 Turn right and go South approx. 208 feet to location on the left.

SCALE: 1" = 100'
 0 50 100
 BEARINGS ARE
 NAD 27 GRID - NM EAST
 DISTANCES ARE
 GROUND.

Firm No.: TX 10193838 NM 4655451

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NO.	REVISION	DATE
JOB NO.:	LS1505223	
DWG. NO.:	1505223PAD	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 5-12-15
SURVEYED BY: BK/ER
DRAWN BY: JC
APPROVED BY: RMH
SHEET : 1 OF 1

Mewbourne Oil Company

Lea County, New Mexico

Salado Draw 10 W0PA Fed #2H

Sec 15, T26S, R33E

SL: 185' FNL & 500' FEL, Sec 15

BHL: 330' FNL & 330' FEL, Sec 10

Plan: Design #1

Standard Planning Report

11 July, 2016

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Salado Draw 10 WOPA Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3355.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3355.0usft (Original Well Elev)
Site:	Salado Draw 10 WOPA Fed #2H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FEL, Sec 10		
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		Salado Draw 10 WOPA Fed #2H			
Site Position:		Northing:	382,823.00 usft	Latitude:	32° 3' 0.332 N
From:	Map	Easting:	741,833.00 usft	Longitude:	103° 33' 10.078 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Sec 15, T26S, R33E					
Well Position	+N/-S	0.0 usft	Northing:	382,823.00 usft	Latitude:	32° 3' 0.332 N
	+E/-W	0.0 usft	Easting:	741,833.00 usft	Longitude:	103° 33' 10.078 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,355.0 usft	Ground Level:	3,328.0 usft

Wellbore	BHL: 330' FNL & 330' FEL, Sec 10				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/11/2016	6.94	59.90	48,007

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	1.48

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	
11,897.5	0.00	0.00	11,897.5	0.0	0.0	0.00	0.00	0.00	0.00	KOP @ 11898'
12,647.5	90.00	1.48	12,375.0	477.3	12.4	12.00	12.00	0.00	1.48	
17,306.8	90.00	1.48	12,375.0	5,135.0	133.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 330'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Salado Draw 10 WOPA Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3355.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3355.0usft (Original Well Elev)
Site:	Salado Draw 10 WOPA Fed #2H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FEL, Sec 10		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 185' FNL & 500' FEL, Sec 15									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Salado Draw 10 W0PA Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3355.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3355.0usft (Original Well Elev)
Site:	Salado Draw 10 W0PA Fed #2H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FEL, Sec 10		
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)
5,300.0	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

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Salado Draw 10 W0PA Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3355.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3355.0usft (Original Well Elev)
Site:	Salado Draw 10 W0PA Fed #2H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FEL, Sec 10		
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)
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,200.0	0.0	0.0	0.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,300.0	0.0	0.0	0.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,400.0	0.0	0.0	0.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,500.0	0.0	0.0	0.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,600.0	0.0	0.0	0.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,700.0	0.0	0.0	0.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,800.0	0.0	0.0	0.0	0.00	0.00	0.00
11,897.5	0.00	0.00	11,897.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 11898'									
11,900.0	0.30	1.48	11,900.0	0.0	0.0	0.0	12.00	12.00	0.00
12,000.0	12.30	1.48	11,999.2	10.9	0.3	11.0	12.00	12.00	0.00
12,100.0	24.30	1.48	12,094.0	42.3	1.1	42.3	12.00	12.00	0.00
12,200.0	36.30	1.48	12,180.2	92.6	2.4	92.6	12.00	12.00	0.00
12,300.0	48.30	1.48	12,254.0	159.8	4.1	159.8	12.00	12.00	0.00
12,400.0	60.30	1.48	12,312.3	240.8	6.2	240.9	12.00	12.00	0.00
12,500.0	72.30	1.48	12,352.4	332.2	8.6	332.3	12.00	12.00	0.00
12,600.0	84.30	1.48	12,372.6	429.9	11.1	430.0	12.00	12.00	0.00
12,647.5	90.00	1.48	12,375.0	477.3	12.4	477.5	12.00	12.00	0.00
LP: 292' FSL & 488' FEL, Sec 10									
12,685.2	90.00	1.48	12,375.0	515.0	13.3	515.2	0.00	0.00	0.00
FTP: 330' FSL & 487' FEL, Sec 10									
12,700.0	90.00	1.48	12,375.0	529.7	13.7	529.9	0.00	0.00	0.00
12,800.0	90.00	1.48	12,375.0	629.7	16.3	629.9	0.00	0.00	0.00
12,900.0	90.00	1.48	12,375.0	729.7	18.9	729.9	0.00	0.00	0.00
13,000.0	90.00	1.48	12,375.0	829.6	21.5	829.9	0.00	0.00	0.00
13,100.0	90.00	1.48	12,375.0	929.6	24.1	929.9	0.00	0.00	0.00
13,200.0	90.00	1.48	12,375.0	1,029.6	26.7	1,029.9	0.00	0.00	0.00
13,300.0	90.00	1.48	12,375.0	1,129.5	29.3	1,129.9	0.00	0.00	0.00
13,400.0	90.00	1.48	12,375.0	1,229.5	31.8	1,229.9	0.00	0.00	0.00
13,500.0	90.00	1.48	12,375.0	1,329.5	34.4	1,329.9	0.00	0.00	0.00
13,600.0	90.00	1.48	12,375.0	1,429.4	37.0	1,429.9	0.00	0.00	0.00
13,700.0	90.00	1.48	12,375.0	1,529.4	39.6	1,529.9	0.00	0.00	0.00
13,800.0	90.00	1.48	12,375.0	1,629.4	42.2	1,629.9	0.00	0.00	0.00
13,900.0	90.00	1.48	12,375.0	1,729.3	44.8	1,729.9	0.00	0.00	0.00
14,000.0	90.00	1.48	12,375.0	1,829.3	47.4	1,829.9	0.00	0.00	0.00
14,100.0	90.00	1.48	12,375.0	1,929.3	50.0	1,929.9	0.00	0.00	0.00
14,200.0	90.00	1.48	12,375.0	2,029.2	52.6	2,029.9	0.00	0.00	0.00
14,300.0	90.00	1.48	12,375.0	2,129.2	55.1	2,129.9	0.00	0.00	0.00
14,400.0	90.00	1.48	12,375.0	2,229.2	57.7	2,229.9	0.00	0.00	0.00
14,500.0	90.00	1.48	12,375.0	2,329.1	60.3	2,329.9	0.00	0.00	0.00
14,600.0	90.00	1.48	12,375.0	2,429.1	62.9	2,429.9	0.00	0.00	0.00
14,700.0	90.00	1.48	12,375.0	2,529.1	65.5	2,529.9	0.00	0.00	0.00
14,800.0	90.00	1.48	12,375.0	2,629.0	68.1	2,629.9	0.00	0.00	0.00
14,900.0	90.00	1.48	12,375.0	2,729.0	70.7	2,729.9	0.00	0.00	0.00
15,000.0	90.00	1.48	12,375.0	2,829.0	73.3	2,829.9	0.00	0.00	0.00
15,100.0	90.00	1.48	12,375.0	2,928.9	75.9	2,929.9	0.00	0.00	0.00
15,200.0	90.00	1.48	12,375.0	3,028.9	78.5	3,029.9	0.00	0.00	0.00
15,300.0	90.00	1.48	12,375.0	3,128.9	81.0	3,129.9	0.00	0.00	0.00

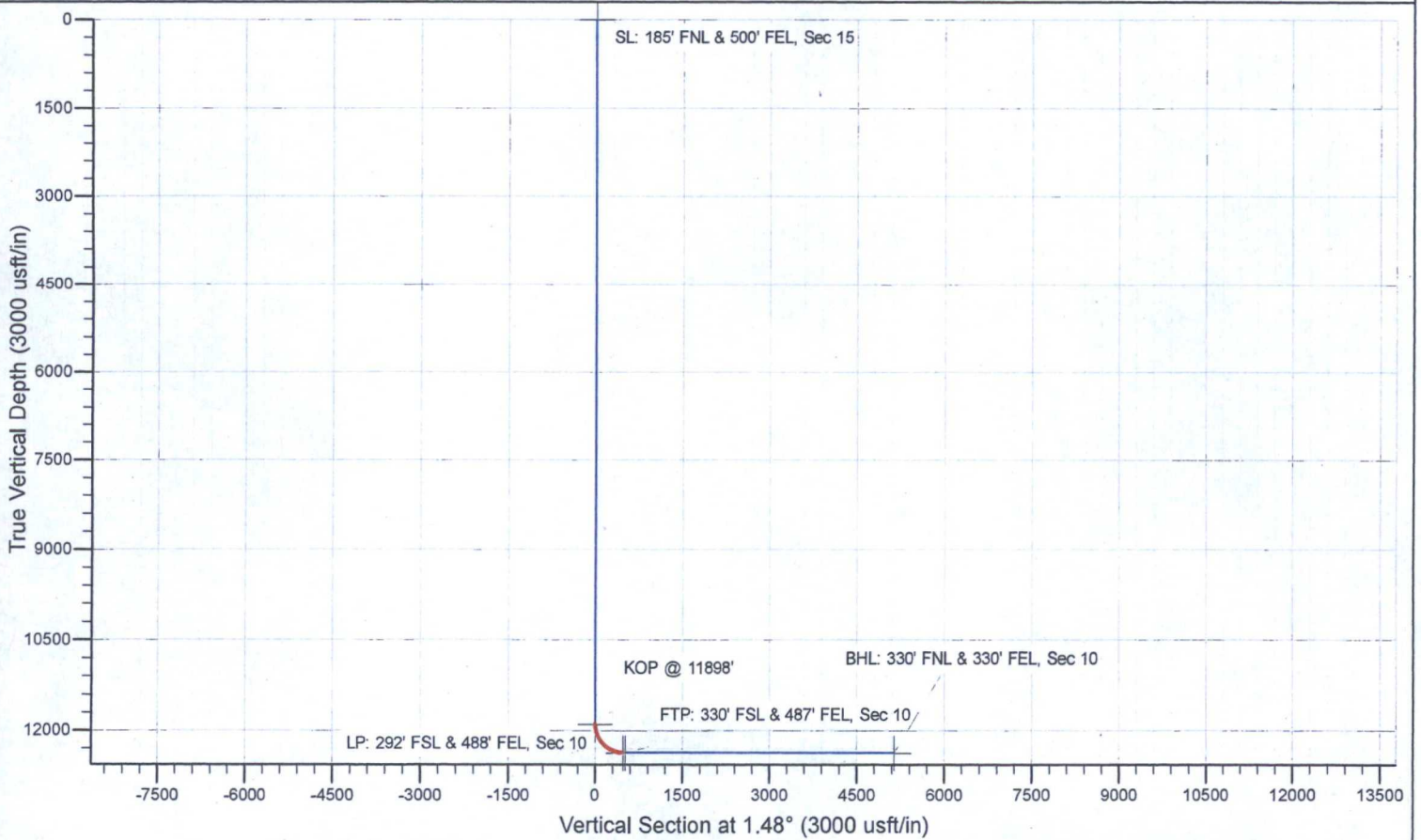
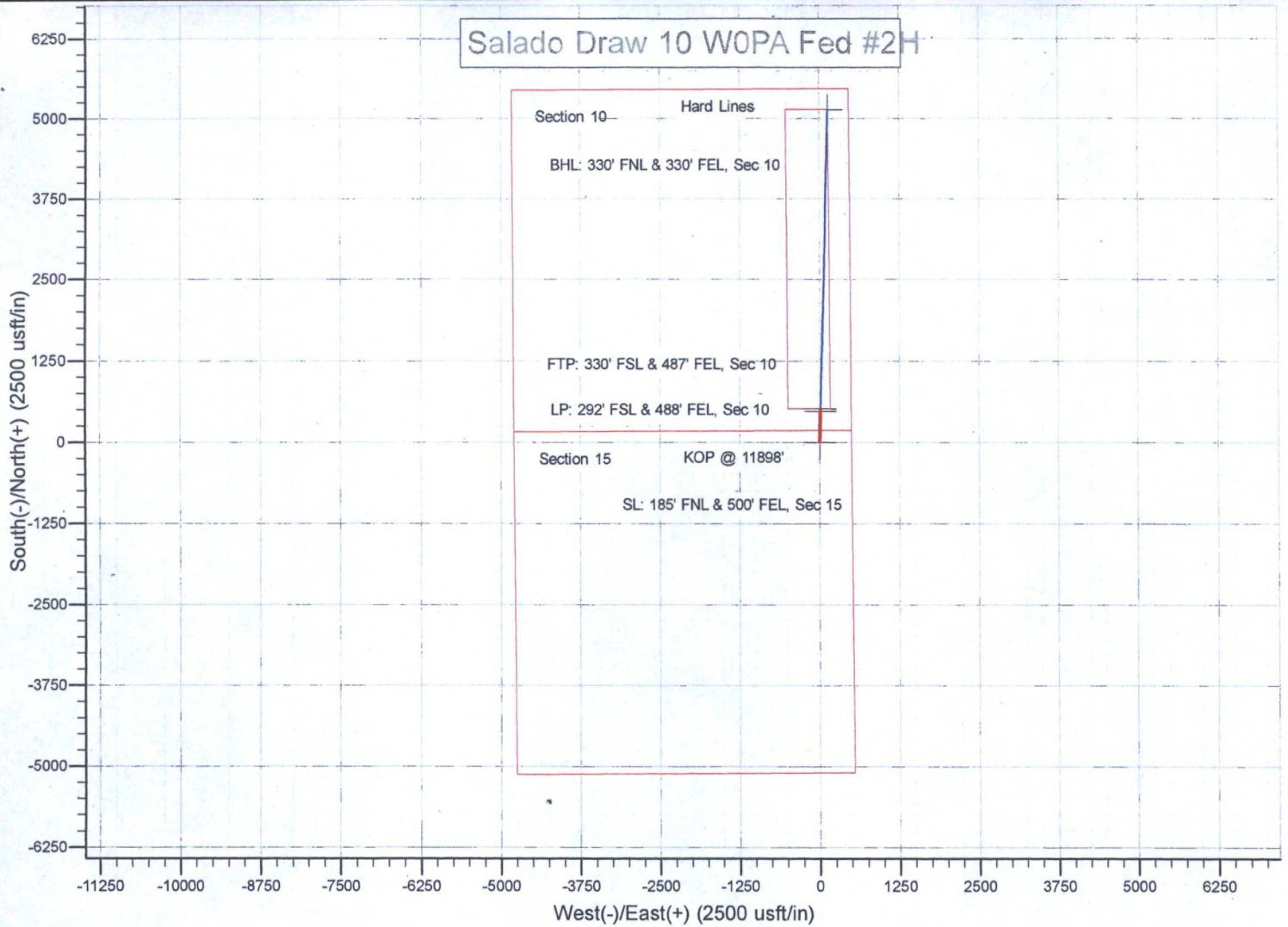
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Salado Draw 10 WOPA Fed #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3355.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3355.0usft (Original Well Elev)
Site:	Salado Draw 10 WOPA Fed #2H	North Reference:	Grid
Well:	Sec 15, T26S, R33E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FEL, Sec 10		
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)	
15,400.0	90.00	1.48	12,375.0	3,228.8	83.6	3,229.9	0.00	0.00	0.00	
15,500.0	90.00	1.48	12,375.0	3,328.8	86.2	3,329.9	0.00	0.00	0.00	
15,600.0	90.00	1.48	12,375.0	3,428.8	88.8	3,429.9	0.00	0.00	0.00	
15,700.0	90.00	1.48	12,375.0	3,528.7	91.4	3,529.9	0.00	0.00	0.00	
15,800.0	90.00	1.48	12,375.0	3,628.7	94.0	3,629.9	0.00	0.00	0.00	
15,900.0	90.00	1.48	12,375.0	3,728.7	96.6	3,729.9	0.00	0.00	0.00	
16,000.0	90.00	1.48	12,375.0	3,828.6	99.2	3,829.9	0.00	0.00	0.00	
16,100.0	90.00	1.48	12,375.0	3,928.6	101.8	3,929.9	0.00	0.00	0.00	
16,200.0	90.00	1.48	12,375.0	4,028.6	104.3	4,029.9	0.00	0.00	0.00	
16,300.0	90.00	1.48	12,375.0	4,128.5	106.9	4,129.9	0.00	0.00	0.00	
16,400.0	90.00	1.48	12,375.0	4,228.5	109.5	4,229.9	0.00	0.00	0.00	
16,500.0	90.00	1.48	12,375.0	4,328.5	112.1	4,329.9	0.00	0.00	0.00	
16,600.0	90.00	1.48	12,375.0	4,428.4	114.7	4,429.9	0.00	0.00	0.00	
16,700.0	90.00	1.48	12,375.0	4,528.4	117.3	4,529.9	0.00	0.00	0.00	
16,800.0	90.00	1.48	12,375.0	4,628.4	119.9	4,629.9	0.00	0.00	0.00	
16,900.0	90.00	1.48	12,375.0	4,728.3	122.5	4,729.9	0.00	0.00	0.00	
17,000.0	90.00	1.48	12,375.0	4,828.3	125.1	4,829.9	0.00	0.00	0.00	
17,100.0	90.00	1.48	12,375.0	4,928.3	127.6	4,929.9	0.00	0.00	0.00	
17,200.0	90.00	1.48	12,375.0	5,028.2	130.2	5,029.9	0.00	0.00	0.00	
17,300.0	90.00	1.48	12,375.0	5,128.2	132.8	5,129.9	0.00	0.00	0.00	
17,306.8	90.00	1.48	12,375.0	5,135.0	133.0	5,136.7	0.00	0.00	0.00	
BHL: 330' FNL & 330' FEL, Sec 10										

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: 185' FNL & 500' FEL - plan hits target center - Point	0.00	0.01	0.0	0.0	0.0	382,823.00	741,833.00	32° 3' 0.332 N	103° 33' 10.078 W	
KOP @ 11898' - plan hits target center - Point	0.00	0.01	11,897.5	0.0	0.0	382,823.00	741,833.00	32° 3' 0.332 N	103° 33' 10.078 W	
FTP: 330' FSL & 487' FE - plan hits target center - Point	0.00	0.00	12,375.0	515.0	13.3	383,338.00	741,846.34	32° 3' 5.428 N	103° 33' 9.880 W	
BHL: 330' FNL & 330' FE - plan hits target center - Point	0.00	0.00	12,375.0	5,135.0	133.0	387,958.00	741,966.00	32° 3' 51.137 N	103° 33' 8.101 W	
LP: 292' FSL & 488' FEL - plan hits target center - Point	0.00	0.00	12,375.0	477.3	12.4	383,300.30	741,845.40	32° 3' 5.055 N	103° 33' 9.894 W	

Salado Draw 10 WOPA Fed #2H



Mewbourne Oil Company, Salado Draw 10 W0PA Fed #2H

Sec 15, T26S, R33E

SL: 185' FNL & 500' FEL, Sec 15

BHL: 330' FNL & 330' FEL, Sec 10

1. Geologic Formations

TVD of target	12375'	Pilot hole depth	NA
MD at TD:	17315'	Deepest expected fresh water:	125'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	951		
Top of Salt	1296	Salt	
Castile	3227		
Base of Salt	4796		
Lamar	5038		
Cherry Canyon	6187		
Manzanita Marker	6308		
Brushy Canyon	7683		
Bone Spring	9198	Oil/Gas	
1 st Bone Spring Sand	10140	Oil/Gas	
2 nd Bone Spring Sand	10685	Oil/Gas	
3 rd Bone Spring Sand	10785	Oil/Gas	
Abo			
Wolfcamp	12225	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension
	From	To							
17.5"	0'	1030'	13.375"	48	H40	STC	1.44	3.23	6.51
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.45
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	8.60
12.25"	4393'	4965'	9.625"	40	N80	LTC	1.20	2.23	32.22
8.75"	0'	12500'	7"	26	HCP110	LTC	1.26	1.61	2.03
6.125"	11898'	17315'	4.5"	13.5	P110	LTC	1.28	1.48	4.62
BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet				

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

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	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, Salado Draw 10 W0PA Fed #2H

Sec 15, T26S, R33E

SL: 185' FNL & 500' FEL, Sec 15

BHL: 330' FNL & 330' FEL, Sec 10

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	555	12.5	2.12	11	10	Class C + 0.005pps Static Free + 1% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
	200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Inter.	790	12.5	2.12	11	10	Lead: Class C (35:65:4) + 5% Sodium Chloride + 5#/sk LCM + 0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Prod.	470	12.5	2.12	11	9	Lead: 60:40:0 Class C + 15.00 lb/sk BA-90 + 4.00% MPS-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free
	400	15.6	1.18	5.2	10	Tail: Class H + 0.65% FL-52 + 0.10% R-3 + 0.005 lb/sk Static Free
Liner	225	11.2	2.97	18	16	Class C (60:40:0)+4% MPA5+1.2% BA10A+10#/sk BA90+5%A10+0.65%ASA301+1.5%SMS+1.2%R21

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	4765'	25%
Liner	11898'	25%

Mewbourne Oil Company, Salado Draw 10 W0PA Fed #2H

Sec 15, T26S, R33E

SL: 185' FNL & 500' FEL, Sec 15

BHL: 330' FNL & 330' FEL, Sec 10

4. Pressure Control Equipment → **SEE COA**

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M 2M	Annular	X	1250# 2000#
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13-5/8"	10M	Annular	X	5000#
			Blind Ram	X	
			Pipe Ram	X	10000#
			Double Ram		
			Other*		
6-1/8"	13-5/8"	10M	Annular	X	5000#
			Blind Ram	X	
			Pipe Ram	X	10000#
			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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SEE
COA

Mewbourne Oil Company, Salado Draw 10 W0PA Fed #2H
Sec 15, T26S, R33E
SL: 185' FNL & 500' FEL, Sec 15
BHL: 330' FNL & 330' FEL, Sec 10

SEE COA

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	<p>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.</p> <ul style="list-style-type: none"> • Provide description here <p>See attached schematic.</p>

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1030	FW Gel	8.6-8.8	28-34	N/C
1030	4965	Saturated Brine	10.0	28-34	N/C
4965	12500	Cut Brine	8.6-9.5	28-34	N/C
12500	17315	OBM	10.0-13.0	30-40	<20cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. *13 ppg mud to control shale in Wolfcamp. Highest mud weight requirement expected to balance formation? 12 ppg - As per Andy Taylor*

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 (11898') 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	11898' (KOP) to TD
Density	
CBL	
Mud log	
PEX	

Mewbourne Oil Company, Salado Draw 10 W0PA Fed #2H
Sec 15, T26S, R33E
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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8366 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.

<input type="checkbox"/>	H2S is present
<input checked="" type="checkbox"/>	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

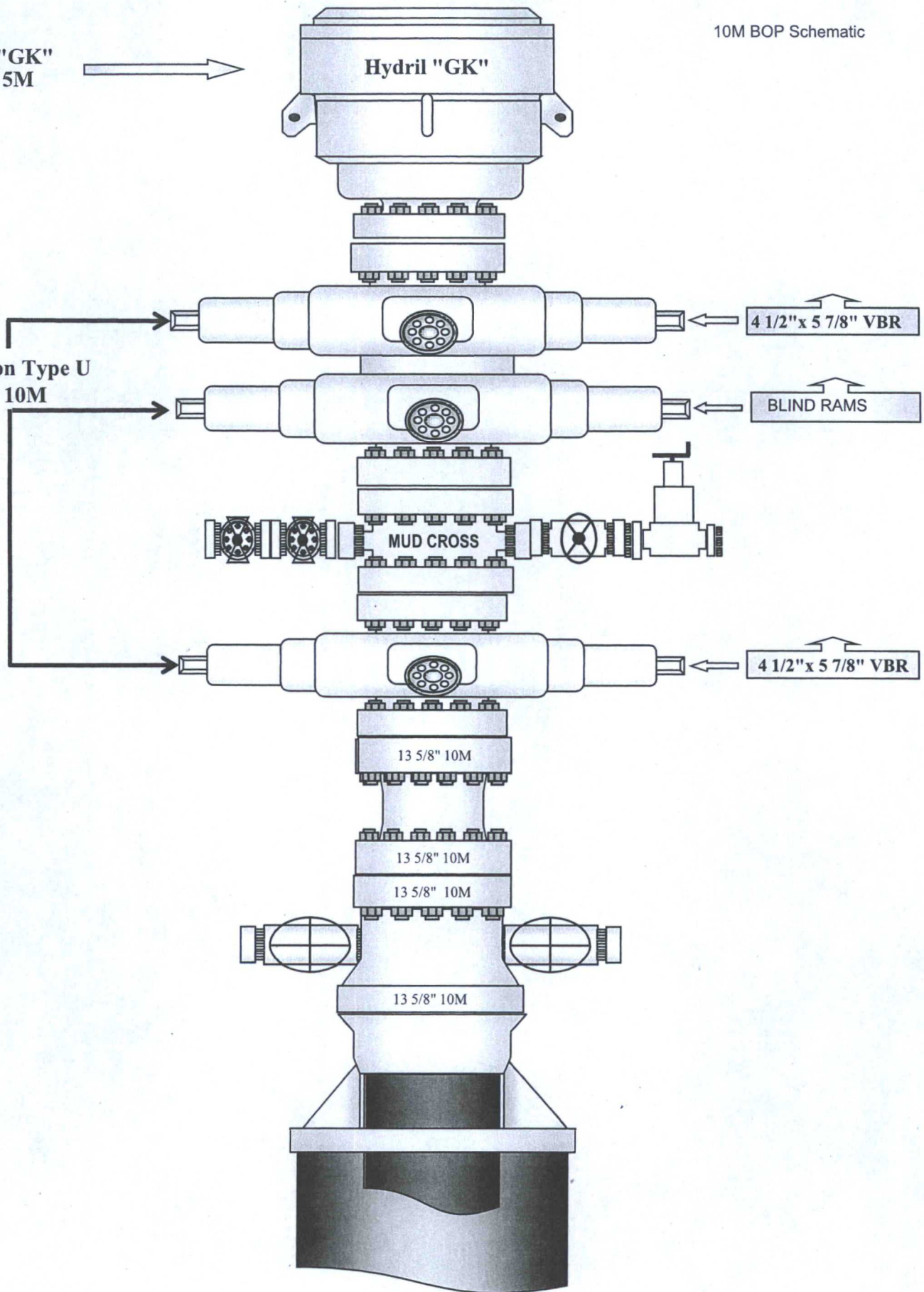
☐ Directional Plan

☐ Other, describe

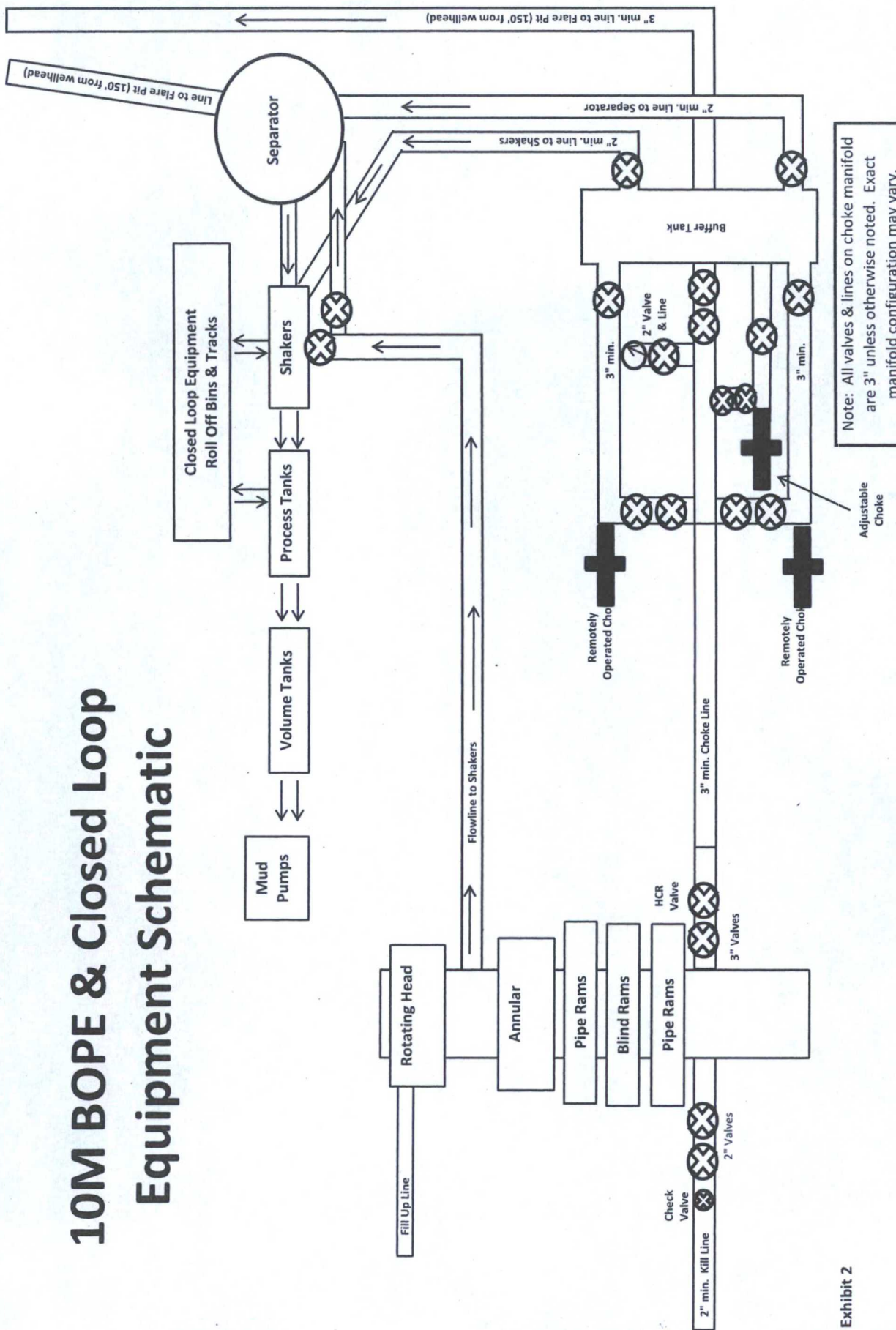
Hydril "GK"
13-5/8" 5M

10M BOP Schematic

Cameron Type U
13-5/8" 10M



10M BOPE & Closed Loop Equipment Schematic





GATES E & S NORTH AMERICA, INC.
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WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :	QUALITY	Production:	PRODUCTION
Date :	4/30/2015	Date :	4/30/2015
Signature :		Signature :	

Form PTC - 01 Rev.02



