

OCD-ARTESIA

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

5. Lease Serial No.
SL: NM-89880 BHL: NMLC 029388C

6. If Indian, Allottee or Tribe Name

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

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator Mewbourne Oil Company

8. Lease Name and Well No.
Tamano "10" Fed Com #8H [32676]

9. API Well No.
30-015-40109

3a. Address PO Box 5270
Hobbs, NM 88240

3b. Phone No. (include area code)
[14744]
(575) 393-5905

10. Field and Pool, or Exploratory
Tamano Bone Spring [58040]

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

At surface 1737' FSL & 260' FWL (Unit L)

At proposed prod. zone 1837' FSL & 330' FEL (Unit I)

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 10, T18S, R31E

14. Distance in miles and direction from nearest town or post office*
32.6 miles SW of Lovington, NM

12. County or Parish
Eddy

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft.
(Also to nearest drig. unit line, if any)
260'

16. No. of acres in lease
SL: 240 acres
BHL: 160 acres

17. Spacing Unit dedicated to this well
160

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
90' north of Tamano "10" #3 wellbore

19. Proposed Depth
12976' MD
8492' TVD

20. BLM/BIA Bond No. on file
NM1693, Nationwide

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3704' GL

22. Approximate date work will start*
03/15/2012

23. Estimated duration
42 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.

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the BLM

25. Signature [Signature]
Title Petroleum Engineer

Name (Printed/Typed)
Brett Bednarz

Date
01/04/2012

Approved by (Signature) [Signature]
Title FIELD MANAGER

Name (Printed/Typed)

Date
MAR 19 2012

Office
CARLSBAD FIELD OFFICE

Application 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 USC 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)

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

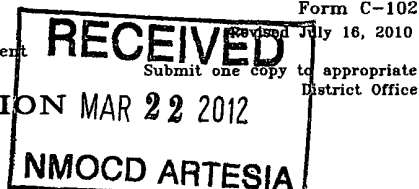
DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505



WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-40109	Pool Code 58040	Pool Name Tamano Bone Spring
Property Code 32676	Property Name TAMANO "10" FEDERAL COM	Well Number 8H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3704'

Surface Location

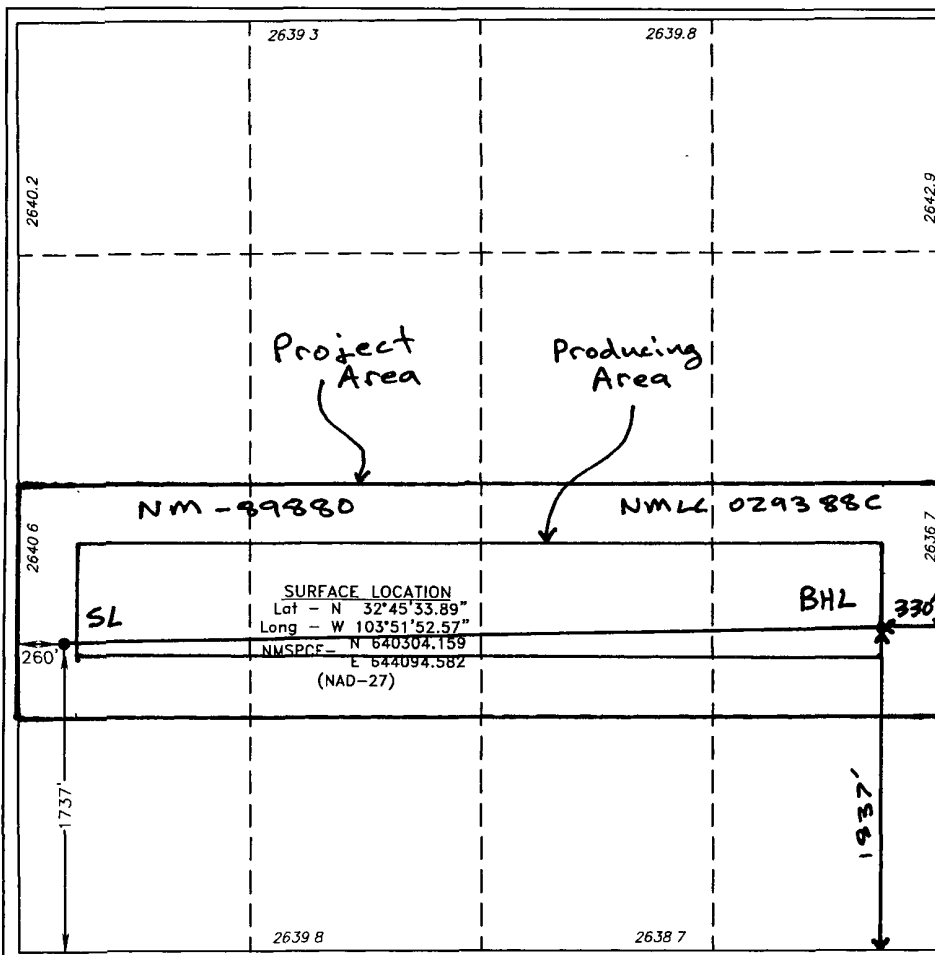
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	18 S	31 E		1737	SOUTH	260	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	10	18 S	31 E		1837	South	330	East	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Brett Bednarz 1-5-12
Signature Date

Brett Bednarz
Printed Name

Email Address:

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

GARY L. JONES 2011
Date Surveyed
Signature & Seal of Professional Surveyor
NEW MEXICO
PROFESSIONAL LAND SURVEYOR
W. L. JONES 2011

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 25339

SECTION 10, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



MEWBOURNE OIL COMPANY
TAMANO "10" FEDERAL COM #8H
ELEV. - 3704'

Lat - N 32°45'33.89"
Long - W 103°51'52.57"
NMSPCE - N 640304.159
E 644094.582
(NAD-27)

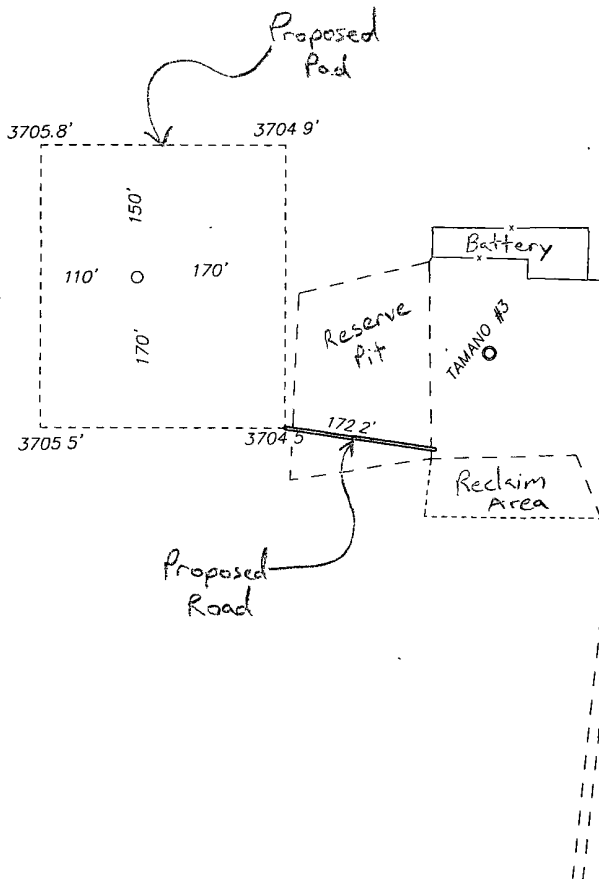
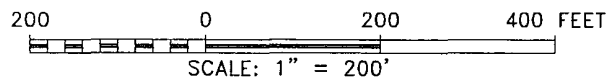


Exhibit 3



Directions to Location.

FROM THE JUNCTION OF WESTALL AND SHUGART, GO
SOUTHEAST ON WESTALL FOR 1.3 MILES TO LEASE
ROAD, ON LEASE ROAD GO NORTHEAST 1.1 MILES TO
LEASE ROAD, ON LEASE ROAD GO NORTH 0.2 MILES
TURNING WEST 1.1 MILES TURNING NORTH FOR 0.2
MILES TO PROPOSED LOCATION.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

MEWBOURNE OIL COMPANY

REF: TAMANO "10" FEDERAL COM #8H / WELL PAD TOPO

THE TAMANO "10" FEDERAL COM #8H LOCATED 1737'
FROM THE SOUTH LINE AND 260' FROM THE WEST LINE OF
SECTION 10, TOWNSHIP 18 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

W.O. Number 25339 Drawn By: J. SMALL

Date: 09-26-2011 Disk: JMS 25339

Survey Date: 09-23-2011 Sheet 1 of 1 Sheets

TEN 1/19/12

Drilling Program
Mewbourne Oil Company
 Tamano "10" Fed Com #8H
 1737' FSL & 260' FWL (SHL)
 Sec 10-T18S-R31E
 Eddy County, New Mexico

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

Rustler	670'
Top Salt	880'
Base Salt	1910'
Yates	2100'
Seven Rivers	2520'
*Queen	3270'
Grayburg	3800'
*San Andres	4025'
*Delaware	4475'
*Bone Springs	5700'

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

Water	Fresh water is anticipated @ 380' and will be protected by setting surface casing at 700' 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 7" & 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 7" & 9 5/8" BOPE to 3000# and the 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. MOC proposes to drill a vertical wellbore to 8015' & kick off to horizontal @ 8492' TVD. The well will be drilled to 12976' MD (8482' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

<u>Hole Size</u>	<u>Casing</u>	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
17 1/2"	13 3/8" (new)	48#	H40	0'-700' 730	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-2200'	LT&C
8 3/4"	7" (new)	26#	P110	0'-8015' MD	LT&C
8 3/4"	7" (new)	26#	P110	8015'-8766' MD	BT&C
6 1/8"	4 1/2" (new)	11.6#	P110	8566'-12976' MD	LT&C

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

*Subject to availability of casing

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Tamano 10 Fed Com #8H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3722.0usft (Patterson 47/45)
Project:	Lea County, NM	MD Reference:	WELL @ 3722.0usft (Patterson 47/45)
Site:	Sec 10-18S-31E	North Reference:	Grid
Well:	Tamano 10 Fed Com #8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, NM		
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	Sec 10-18S-31E				
Site Position:		Northings:	640,304.16 usft	Latitude:	32° 45' 33.885 N
From:	Map	Easting:	644,094.59 usft	Longitude:	103° 51' 52.567 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.25

Well:	Tamano 10 Fed Com #8H					
Well Position	+N/-S	0.0 usft	Northings:	640,304.16 usft	Latitude:	32° 45' 33.885 N
	+E/-W	0.0 usft	Easting:	644,094.59 usft	Longitude:	103° 51' 52.567 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,704.0 usft

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/4/2012	7.69	60.62	48,849

Design:	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	88.84

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	
8,014.5	0.00	0.00	8,014.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,765.6	90.14	88.84	8,492.0	9.7	478.5	12.00	12.00	11.83	88.84	
12,976.3	90.14	88.84	8,482.0	94.9	4,688.3	0.00	0.00	0.00	0.00	PBHL Tamano 10 F

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Tamano 10 Fed Com #8H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3722.0usft (Patterson 47/45)
Project:	Lea County, NM	MD Reference:	WELL @ 3722.0usft (Patterson 47/45)
Site:	Sec 10-18S-31E	North Reference:	Grid
Well:	Tamano 10 Fed Com #8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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
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
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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
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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

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Tamano 10 Fed Com #8H
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Project:	Lea County, NM	MD Reference:	WELL @ 3722.0usft (Patterson 47/45)
Site:	Sec 10-18S-31E	North Reference:	Grid
Well:	Tamano 10 Fed Com #8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
5,400.0	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
Build 12°/100' @ 8015' MD									
8,014.5	0.00	0.00	8,014.5	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	10.26	88.84	8,099.5	0.2	7.6	7.6	12.00	12.00	0.00
8,200.0	22.26	88.84	8,195.4	0.7	35.6	35.6	12.00	12.00	0.00
8,300.0	34.26	88.84	8,283.3	1.7	82.8	82.8	12.00	12.00	0.00
8,400.0	46.26	88.84	8,359.5	3.0	147.3	147.4	12.00	12.00	0.00
8,500.0	58.26	88.84	8,420.6	4.6	226.2	226.3	12.00	12.00	0.00
8,600.0	70.26	88.84	8,463.9	6.4	316.1	316.2	12.00	12.00	0.00
8,700.0	82.26	88.84	8,487.6	8.4	413.1	413.2	12.00	12.00	0.00
EOB @ 8766' MD / 90.14° Inc / 88.84° Azm / 8492' TVD									
8,765.6	90.14	88.84	8,492.0	9.7	478.5	478.6	12.00	12.00	0.00
8,800.0	90.14	88.84	8,491.9	10.4	512.9	513.0	0.00	0.00	0.00
8,900.0	90.14	88.84	8,491.6	12.4	612.8	613.0	0.00	0.00	0.00
9,000.0	90.14	88.84	8,491.4	14.4	712.8	713.0	0.00	0.00	0.00
9,100.0	90.14	88.84	8,491.2	16.5	812.8	813.0	0.00	0.00	0.00
9,200.0	90.14	88.84	8,490.9	18.5	912.8	913.0	0.00	0.00	0.00
9,300.0	90.14	88.84	8,490.7	20.5	1,012.8	1,013.0	0.00	0.00	0.00
9,400.0	90.14	88.84	8,490.5	22.5	1,112.7	1,113.0	0.00	0.00	0.00
9,500.0	90.14	88.84	8,490.2	24.6	1,212.7	1,213.0	0.00	0.00	0.00
9,600.0	90.14	88.84	8,490.0	26.6	1,312.7	1,313.0	0.00	0.00	0.00
9,700.0	90.14	88.84	8,489.8	28.6	1,412.7	1,413.0	0.00	0.00	0.00
9,800.0	90.14	88.84	8,489.5	30.6	1,512.7	1,513.0	0.00	0.00	0.00
9,900.0	90.14	88.84	8,489.3	32.7	1,612.6	1,613.0	0.00	0.00	0.00
10,000.0	90.14	88.84	8,489.0	34.7	1,712.6	1,713.0	0.00	0.00	0.00
10,100.0	90.14	88.84	8,488.8	36.7	1,812.6	1,813.0	0.00	0.00	0.00
10,200.0	90.14	88.84	8,488.6	38.7	1,912.6	1,913.0	0.00	0.00	0.00

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Tamano 10 Fed Com #8H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3722.0usft (Patterson 47/45)
Project:	Lea County, NM	MD Reference:	WELL @ 3722.0usft (Patterson 47/45)
Site:	Sec 10-18S-31E	North Reference:	Grid
Well:	Tamano 10 Fed Com #8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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	90.14	88.84	8,488.3	40.8	2,012.5	2,013.0	0.00	0.00	0.00
10,400.0	90.14	88.84	8,488.1	42.8	2,112.5	2,113.0	0.00	0.00	0.00
10,500.0	90.14	88.84	8,487.9	44.8	2,212.5	2,213.0	0.00	0.00	0.00
10,600.0	90.14	88.84	8,487.6	46.8	2,312.5	2,313.0	0.00	0.00	0.00
10,700.0	90.14	88.84	8,487.4	48.9	2,412.5	2,413.0	0.00	0.00	0.00
10,800.0	90.14	88.84	8,487.1	50.9	2,512.4	2,513.0	0.00	0.00	0.00
10,900.0	90.14	88.84	8,486.9	52.9	2,612.4	2,613.0	0.00	0.00	0.00
11,000.0	90.14	88.84	8,486.7	54.9	2,712.4	2,713.0	0.00	0.00	0.00
11,100.0	90.14	88.84	8,486.4	57.0	2,812.4	2,813.0	0.00	0.00	0.00
11,200.0	90.14	88.84	8,486.2	59.0	2,912.4	2,913.0	0.00	0.00	0.00
11,300.0	90.14	88.84	8,486.0	61.0	3,012.3	3,013.0	0.00	0.00	0.00
11,400.0	90.14	88.84	8,485.7	63.0	3,112.3	3,113.0	0.00	0.00	0.00
11,500.0	90.14	88.84	8,485.5	65.1	3,212.3	3,213.0	0.00	0.00	0.00
11,600.0	90.14	88.84	8,485.3	67.1	3,312.3	3,313.0	0.00	0.00	0.00
11,700.0	90.14	88.84	8,485.0	69.1	3,412.3	3,413.0	0.00	0.00	0.00
11,800.0	90.14	88.84	8,484.8	71.1	3,512.2	3,513.0	0.00	0.00	0.00
11,900.0	90.14	88.84	8,484.5	73.1	3,612.2	3,613.0	0.00	0.00	0.00
12,000.0	90.14	88.84	8,484.3	75.2	3,712.2	3,713.0	0.00	0.00	0.00
12,100.0	90.14	88.84	8,484.1	77.2	3,812.2	3,813.0	0.00	0.00	0.00
12,200.0	90.14	88.84	8,483.8	79.2	3,912.2	3,913.0	0.00	0.00	0.00
12,300.0	90.14	88.84	8,483.6	81.2	4,012.1	4,013.0	0.00	0.00	0.00
12,400.0	90.14	88.84	8,483.4	83.3	4,112.1	4,113.0	0.00	0.00	0.00
12,500.0	90.14	88.84	8,483.1	85.3	4,212.1	4,213.0	0.00	0.00	0.00
12,600.0	90.14	88.84	8,482.9	87.3	4,312.1	4,313.0	0.00	0.00	0.00
12,700.0	90.14	88.84	8,482.7	89.3	4,412.0	4,413.0	0.00	0.00	0.00
12,800.0	90.14	88.84	8,482.4	91.4	4,512.0	4,513.0	0.00	0.00	0.00
12,900.0	90.14	88.84	8,482.2	93.4	4,612.0	4,613.0	0.00	0.00	0.00
TD @ 12976' MD / 8482' TVD									
12,976.3	90.14	88.84	8,482.0	94.9	4,688.3	4,689.3	0.00	0.00	0.00

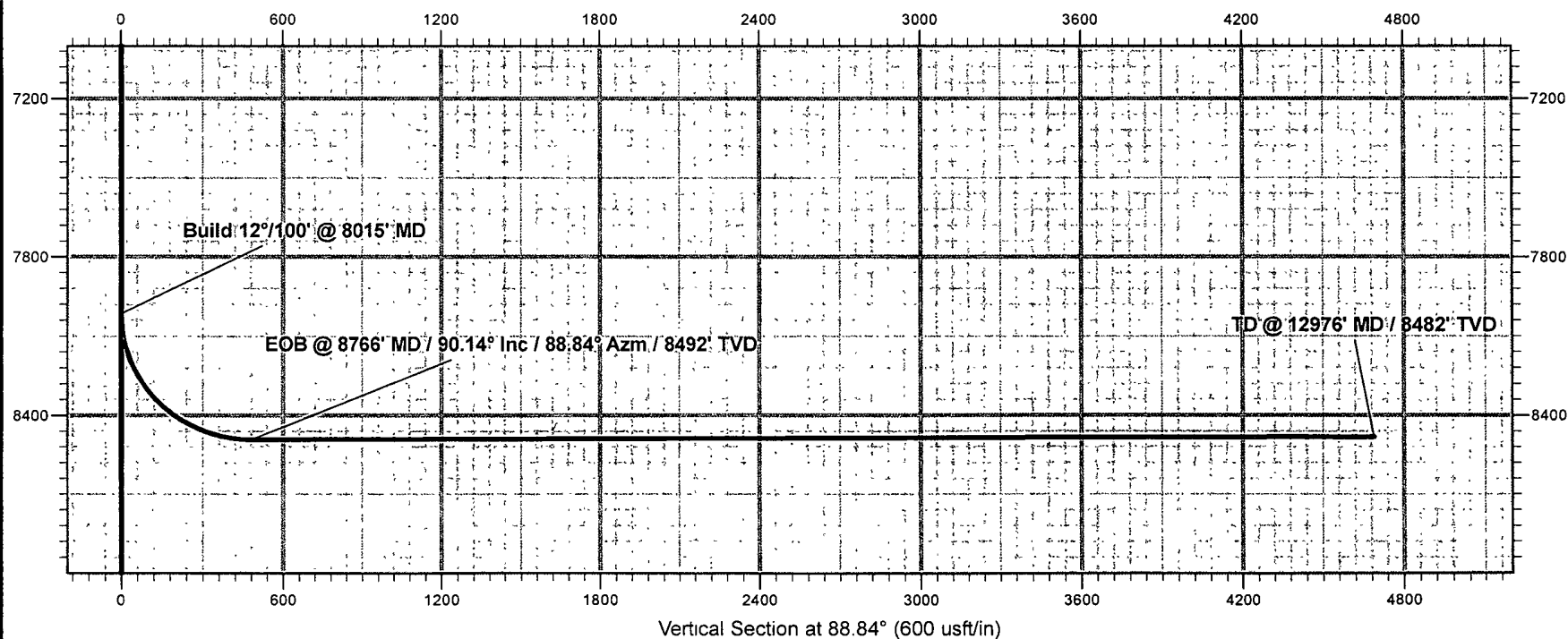
Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
PBHL Tamano 10 Fed		0.00	0.00	8,482.0	94.9	4,688.3	640,399.10	648,782.90	32° 45' 34.616 N 103° 50' 57.661 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,014.5	8,014.5	0.0	0.0	Build 12°/100' @ 8015' MD
8,765.6	8,492.0	9.7	478.5	EOB @ 8766' MD / 90.14° Inc / 88.84° Azm / 8492' TVD
12,976.3	8,482.0	94.9	4,688.3	TD @ 12976' MD / 8482' TVD

Mewbourne Oil Company

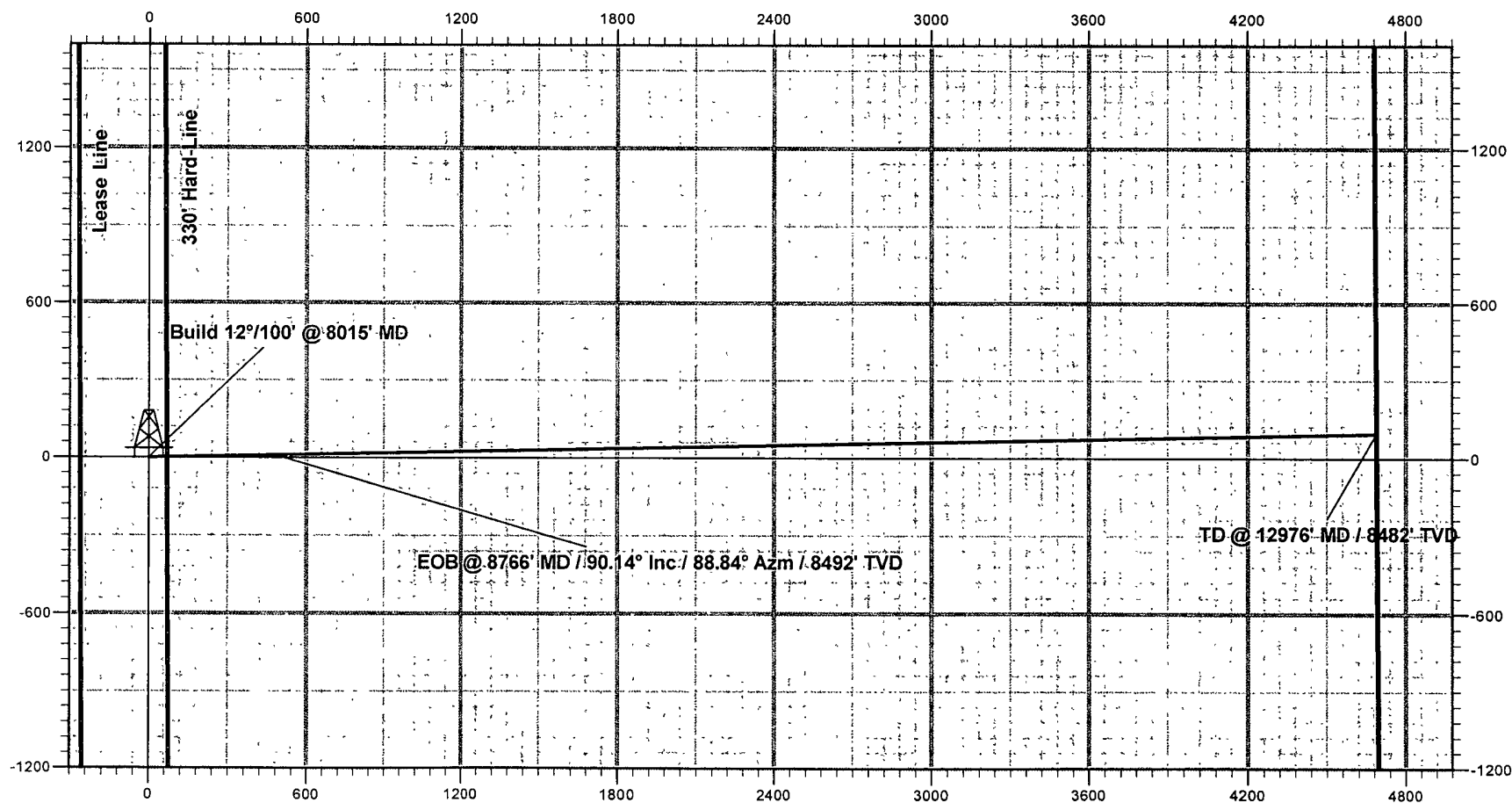


Lea County, NM
Tamano 10 Fed Com #8H
Quote 110671

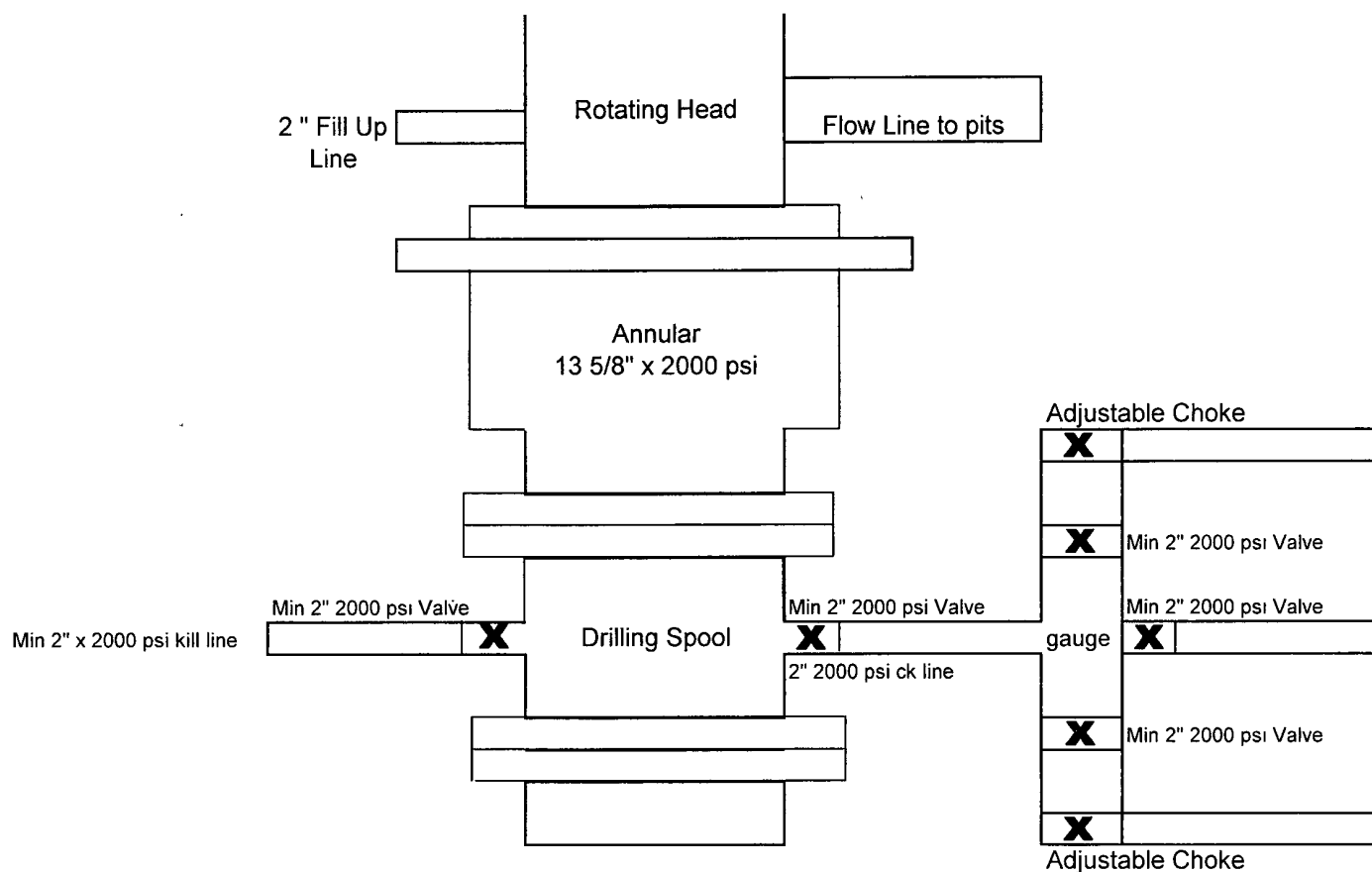


Mewbourne Oil Company

Lea County, NM
Tamano 10 Fed Com #8H
Design #1



Mewbourne Oil Company
BOP Schematic for
12 1/4" Hole

**Exhibit #2**

Tamano "10" Fed Com #8H
1737' FSL & 260' FWL
Sec 10-T18S-R31E
Eddy, County
New Mexico

Mewbourne Oil Company
 BOP Schematic for
 8 3/4" & 6 1/8" Hole

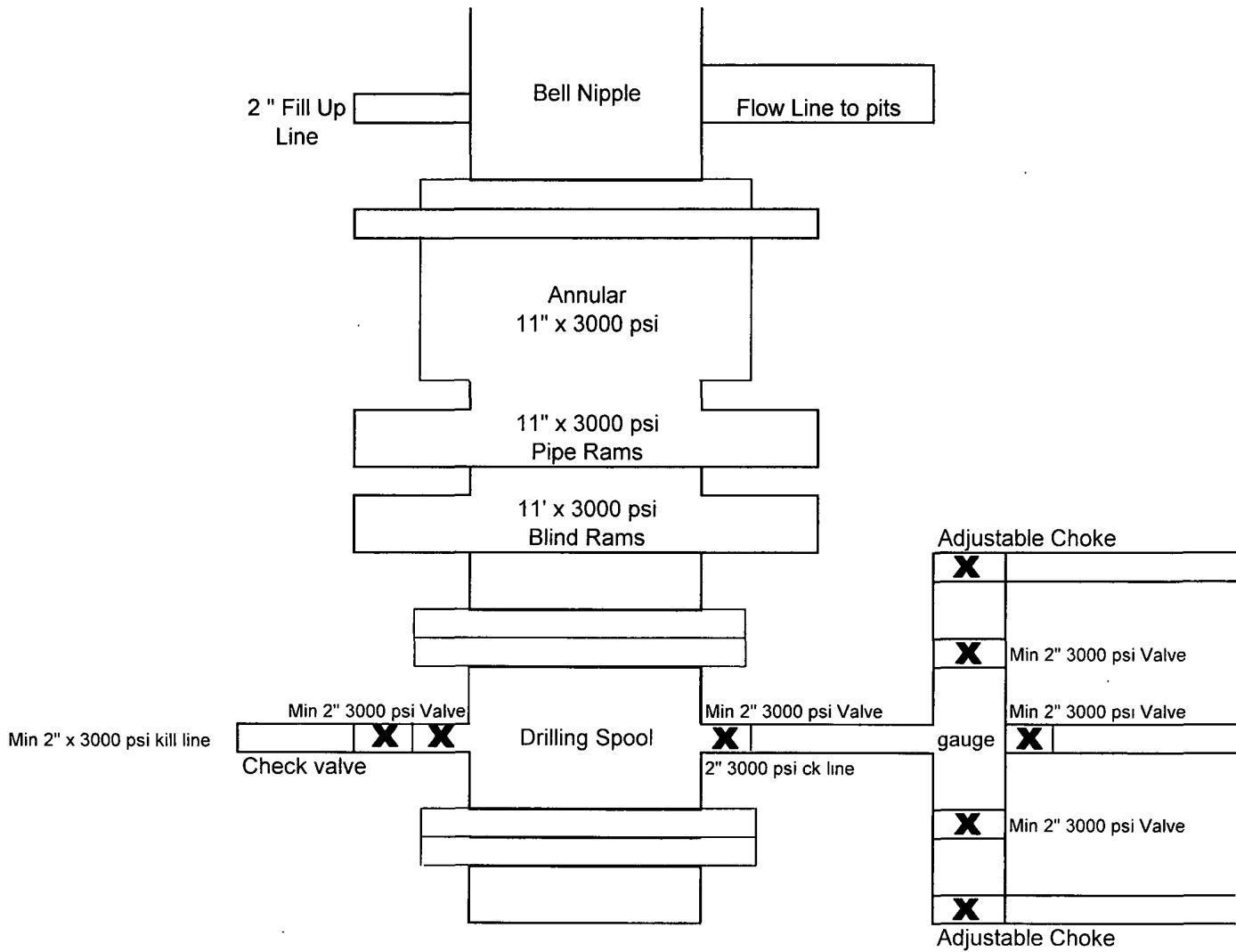


Exhibit #2

Tamano "10" Fed Com #8H
 1737' FSL & 260' FWL
 Sec 10-T18S-R31E
 Eddy, County
 New Mexico

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Tamano "10" Fed Com #8H
1737' FSL & 260' FWL (SHL)
Sec 10-T18S-R31E
Eddy 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 2000 psi working pressure on 13 3/8" casing and 3000 psi working pressure on 9 5/8" & 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.