

HOBBS OCD

OCD-ARTESIA

AT5-11-484
FORM APPROVED
OMB No 1004-0136
Expires January 31, 2004

JUL 21 2011

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

1a. Type of Work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator

Mewbourne Oil Company 14744

3a. Address

PO Box 5270 Hobbs, NM 88241

3b. Phone No. (include area code)

575-393-5905

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

At surface 330' FNL & 500' FWL (SL) Unit D

At proposed prod zone 330' FSL & 500' FWL (BHL) Unit M

14. Distance in miles and direction from nearest town or post office*

10 South of Maljamar, NM

15. Distance from proposed*

location to nearest
property or lease line, ft
(Also to nearest drig. unit line, if any) 330'

16. No. of Acres in lease

80

17. Spacing Unit dedicated to this well

160

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft 367'

19. Proposed Depth

13834' MD
9544' TVD

20. BLM/BIA Bond No. on file

NM1693, Nationwide

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

3801' GL

22. Approximate date work will start*

ASAP

23. Estimated duration

40

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall 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 shall 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
authorized officer.

25 Signature

Name (Printed/Typed)

Date

Jackie Lathan

03/29/11

Title

Hobbs Regulatory

Approved by (Signature)

Is/ Don Peterson

Name (Printed/Typed)

Date

JUL 14 2011

Title

FIELD MANAGER

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 U S C Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

HOBBS OCD

JUL 21 2011

RECEIVED

RECEIVED
JUL 15 2011

NMOCD ARTESIA

Capitan Controlled Water Basin

KZ 07/23/11

SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

JUL 27 2011

Querecho 24 Fed Com #1H

**330' FSL & 500' FWL (BHL) Section 24, T18S, R32E
Eddy County, New Mexico**

[illegible]

Drilling Program
Mewbourne Oil Company
 Querecho "24" Federal Com #1H
 330' FNL & 500' FWL (SHL)
 Sec 24-T18S-R32E
 Lea County, New Mexico

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

Rustler	1200'
Yates	2800'
*Queen	3990'
*Delaware	5675'
*Bone Springs	6850'

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

Water	Fresh water is anticipated @ 100' and will be protected by setting surface casing at 1225' 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 all annulars 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 8871' & kick off to horizontal @ 9444' TVD. The well will be drilled to 13834' MD (9544' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

See COA

<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'-1225' / 280'	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-2780'	LT&C
8 3/4"	7" (new)	26#	P110	0'-8870' MD	LT&C
8 3/4"	7" (new)	26#	P110	8870'-9770' MD	BT&C
6 1/8"	4 1/2" (new)	11.6#	P110	9570'-13834' MD	LT&C

See COA
 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: 370 sacks *Lite "C" (35:65:4) cement w/salt and lost circulation material additives. Yield at 2.15 cuft/sk. 200 sks class "C" w/1% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
- ii. Intermediate Casing: 270 sacks *Lite "C" (35:65:4) cement w/lost circulation material additives. Yield at 2.15 cuft/sk. 400 sks class "C" neat. Yield at 1.33 cuft/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 360 sacks *Lite "H" (35:65:6) cement w/salt and fluid loss additives. Yield at 2.47 cuft/sk. 400 sks class "H" w/salt and fluid loss additives. Yield at 1.18 cuft/sk. Cmt calculated to tieback into intermediate casing @ 2500' w/25% excess.

*Referring to above blends of lite 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.

Liner will be installed with packers + ports.

*Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

6. Mud Program:

no response from operator, changed to match

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-1225'	FW spud mud	8.6-9.0	32-34	NA
1225'-2900'	Brine water	10.0-10.2	28-30	NA
2900'-8770'	FW	8.3-8.6	28-30	NA
8770'- TD	FW w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program:

Samples: 10' samples from surface casing to TD
Logging: GR, Neutron, & Gyro from KOP -100' (8770') to surface. GR from 8770' to TD.

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

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 40 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

Mewbourne Oil Co

Lea County, NM

Sec 24-18S-32E

Querecho 24 Federal Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

22 March, 2011



DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Querecho 24 Federal Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3819.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3819.0usft (Patterson UTI)
Site:	Sec 24-18S-32E	North Reference:	Grid
Well:	Querecho 24 Federal Com #1H	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 24-18S-32E		
Site Position:		Northing:	633,159.34 usft
From:	Map	Easting:	686,657.85 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 44' 21.047 N
		Longitude:	103° 43' 34.627 W
		Grid Convergence:	0.33 °

Well	Querecho 24 Federal Com #1H					
Well Position	+N-S	0.0 usft	Northing:	633,159.34 usft	Latitude:	32° 44' 21.047 N
	+E-W	0.0 usft	Easting:	686,657.85 usft	Longitude:	103° 43' 34.627 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,801.0 usft	

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/22/2011	7.73	60.64	48,931

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	179.76

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	
8,871.2	0.00	0.00	8,871.2	0.0	0.0	0.00	0.00	0.00	0.00	
9,757.1	88.59	179.76	9,444.0	-558.9	2.3	10.00	10.00	20.29	179.76	
13,834.1	88.59	179.76	9,544.0	-4,634.5	19.2	0.00	0.00	0.00	0.00	Querecho 24 Feder

DDC

Well Planning Report



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Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3819.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3819.0usft (Patterson UTI)
Site:	Sec 24-18S-32E	North Reference:	Grid
Well:	Querecho 24 Federal Com #1H	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
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

DDC

Well Planning Report



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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
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
Build 10°/100' @ 8871' MD									
8,871.2	0.00	0.00	8,871.2	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	2.88	179.76	8,900.0	-0.7	0.0	0.7	10.00	10.00	0.00
9,000.0	12.88	179.76	8,998.9	-14.4	0.1	14.4	10.00	10.00	0.00
9,100.0	22.88	179.76	9,094.0	-45.1	0.2	45.1	10.00	10.00	0.00
9,200.0	32.88	179.76	9,182.2	-91.8	0.4	91.8	10.00	10.00	0.00
9,300.0	42.88	179.76	9,261.1	-153.1	0.6	153.1	10.00	10.00	0.00
9,400.0	52.88	179.76	9,328.1	-227.2	0.9	227.2	10.00	10.00	0.00
9,500.0	62.88	179.76	9,381.2	-311.8	1.3	311.8	10.00	10.00	0.00
9,600.0	72.88	179.76	9,418.8	-404.3	1.7	404.3	10.00	10.00	0.00
9,700.0	82.88	179.76	9,439.7	-501.9	2.1	501.9	10.00	10.00	0.00
EOB @ 9757' MD / 88.59° Inc / 179.76° Azm / 9444' TVD									
9,757.1	88.59	179.76	9,444.0	-558.9	2.3	558.9	10.00	10.00	0.00
9,800.0	88.59	179.76	9,445.0	-601.7	2.5	601.7	0.00	0.00	0.00
9,900.0	88.59	179.76	9,447.5	-701.7	2.9	701.7	0.00	0.00	0.00
10,000.0	88.59	179.76	9,449.9	-801.7	3.3	801.7	0.00	0.00	0.00
10,100.0	88.59	179.76	9,452.4	-901.6	3.7	901.7	0.00	0.00	0.00
10,200.0	88.59	179.76	9,454.8	-1,001.6	4.2	1,001.6	0.00	0.00	0.00

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Querecho 24 Federal Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3819.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3819.0usft (Patterson UTI)
Site:	Sec 24-18S-32E	North Reference:	Grid
Well:	Querecho 24 Federal Com #1H	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	88.59	179.76	9,457.3	-1,101.6	4.6	1,101.6	0.00	0.00	0.00
10,400.0	88.59	179.76	9,459.8	-1,201.6	5.0	1,201.6	0.00	0.00	0.00
10,500.0	88.59	179.76	9,462.2	-1,301.5	5.4	1,301.5	0.00	0.00	0.00
10,600.0	88.59	179.76	9,464.7	-1,401.5	5.8	1,401.5	0.00	0.00	0.00
10,700.0	88.59	179.76	9,467.1	-1,501.5	6.2	1,501.5	0.00	0.00	0.00
10,800.0	88.59	179.76	9,469.6	-1,601.4	6.6	1,601.4	0.00	0.00	0.00
10,900.0	88.59	179.76	9,472.0	-1,701.4	7.1	1,701.4	0.00	0.00	0.00
11,000.0	88.59	179.76	9,474.5	-1,801.4	7.5	1,801.4	0.00	0.00	0.00
11,100.0	88.59	179.76	9,476.9	-1,901.3	7.9	1,901.4	0.00	0.00	0.00
11,200.0	88.59	179.76	9,479.4	-2,001.3	8.3	2,001.3	0.00	0.00	0.00
11,300.0	88.59	179.76	9,481.8	-2,101.3	8.7	2,101.3	0.00	0.00	0.00
11,400.0	88.59	179.76	9,484.3	-2,201.2	9.1	2,201.3	0.00	0.00	0.00
11,500.0	88.59	179.76	9,486.7	-2,301.2	9.5	2,301.2	0.00	0.00	0.00
11,600.0	88.59	179.76	9,489.2	-2,401.2	10.0	2,401.2	0.00	0.00	0.00
11,700.0	88.59	179.76	9,491.6	-2,501.2	10.4	2,501.2	0.00	0.00	0.00
11,800.0	88.59	179.76	9,494.1	-2,601.1	10.8	2,601.1	0.00	0.00	0.00
11,900.0	88.59	179.76	9,496.6	-2,701.1	11.2	2,701.1	0.00	0.00	0.00
12,000.0	88.59	179.76	9,499.0	-2,801.1	11.6	2,801.1	0.00	0.00	0.00
12,100.0	88.59	179.76	9,501.5	-2,901.0	12.0	2,901.1	0.00	0.00	0.00
12,200.0	88.59	179.76	9,503.9	-3,001.0	12.4	3,001.0	0.00	0.00	0.00
12,300.0	88.59	179.76	9,506.4	-3,101.0	12.9	3,101.0	0.00	0.00	0.00
12,400.0	88.59	179.76	9,508.8	-3,200.9	13.3	3,201.0	0.00	0.00	0.00
12,500.0	88.59	179.76	9,511.3	-3,300.9	13.7	3,300.9	0.00	0.00	0.00
12,600.0	88.59	179.76	9,513.7	-3,400.9	14.1	3,400.9	0.00	0.00	0.00
12,700.0	88.59	179.76	9,516.2	-3,500.8	14.5	3,500.9	0.00	0.00	0.00
12,800.0	88.59	179.76	9,518.6	-3,600.8	14.9	3,600.8	0.00	0.00	0.00
12,900.0	88.59	179.76	9,521.1	-3,700.8	15.3	3,700.8	0.00	0.00	0.00
13,000.0	88.59	179.76	9,523.5	-3,800.8	15.8	3,800.8	0.00	0.00	0.00
13,100.0	88.59	179.76	9,526.0	-3,900.7	16.2	3,900.8	0.00	0.00	0.00
13,200.0	88.59	179.76	9,528.4	-4,000.7	16.6	4,000.7	0.00	0.00	0.00
13,300.0	88.59	179.76	9,530.9	-4,100.7	17.0	4,100.7	0.00	0.00	0.00
13,400.0	88.59	179.76	9,533.4	-4,200.6	17.4	4,200.7	0.00	0.00	0.00
13,500.0	88.59	179.76	9,535.8	-4,300.6	17.8	4,300.6	0.00	0.00	0.00
13,600.0	88.59	179.76	9,538.3	-4,400.6	18.2	4,400.6	0.00	0.00	0.00
13,700.0	88.59	179.76	9,540.7	-4,500.5	18.7	4,500.6	0.00	0.00	0.00
13,800.0	88.59	179.76	9,543.2	-4,600.5	19.1	4,600.5	0.00	0.00	0.00
TD @ 13834' MD / 9544' TVD									
13,834.1	88.59	179.76	9,544.0	-4,634.5	19.2	4,634.6	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Querecho 24 Federal	0.00	0.00	9,544.0	-4,634.5	19.2	628,524.79	686,677.06	32° 43' 35.187 N	103° 43' 34.713 W
- plan hits target center									
- Point									

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Querecho 24 Federal Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3819.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3819.0usft (Patterson UTI)
Site:	Sec 24-18S-32E	North Reference:	Grid
Well:	Querecho 24 Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

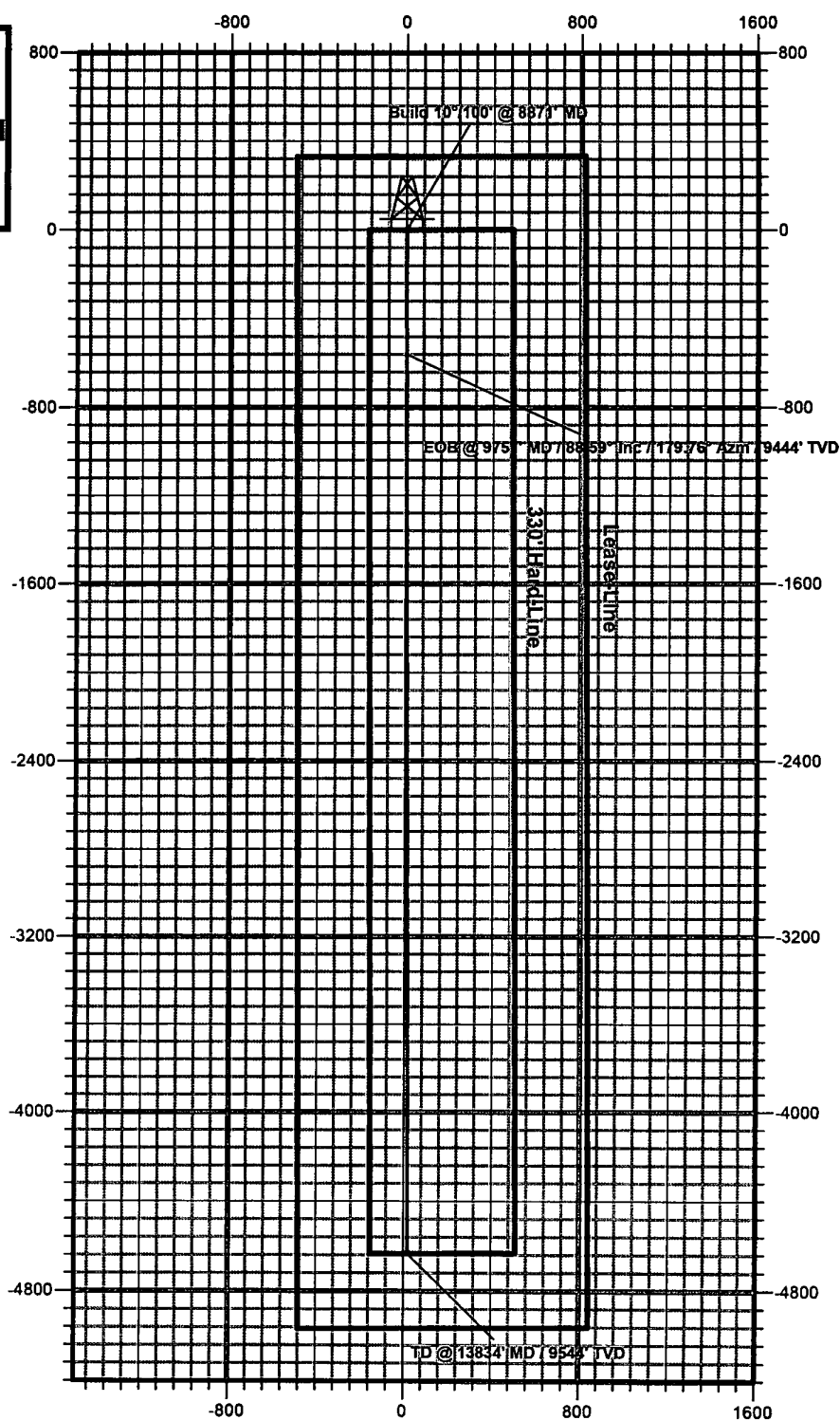
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
8,871.2	8,871.2	0.0	0.0	Build 10°/100' @ 8871' MD
9,757.1	9,444.0	-558.9	2.3	EOB @ 9757' MD / 88.59° Inc / 179.76° Azm / 9444' TVD
13,834.1	9,544.0	-4,634.5	19.2	TD @ 13834' MD / 9544' TVD

Mewbourne Oil Company

Lea County, NM

Querecho 24 Federal Com #1H

Q110246

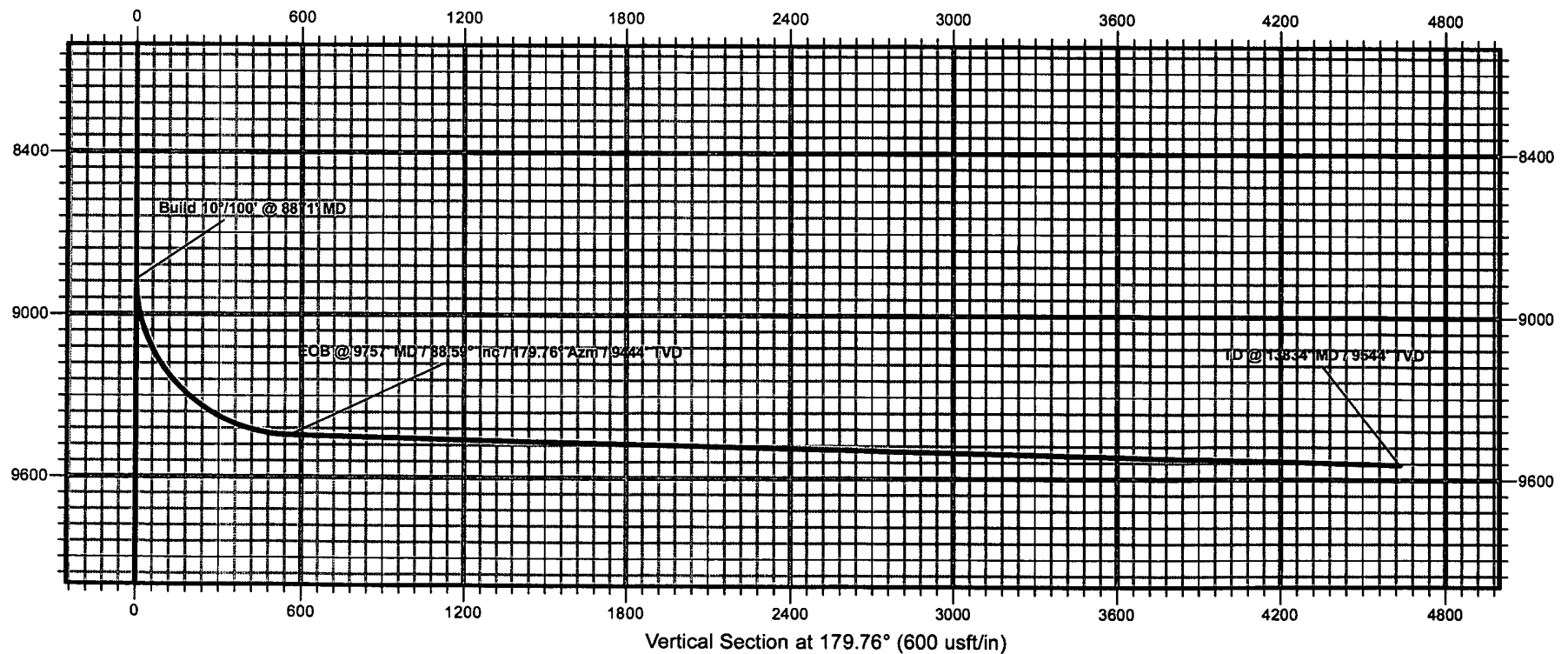


Mewbourne Oil Company

Lea County, NM

Querecho 24 Federal Com #1H

Q110246



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

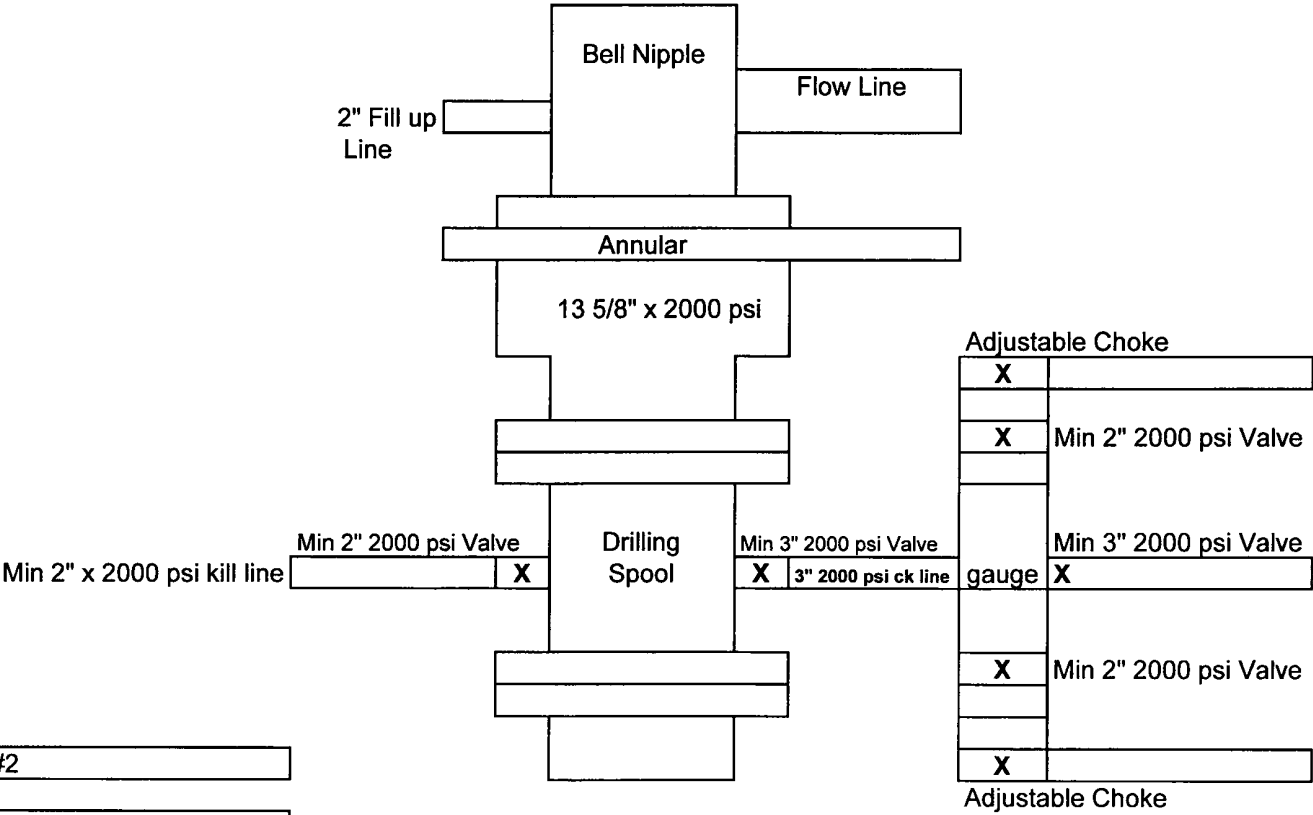


Exhibit #2

Querecho 24 Fed Com #1H
330' FNL & 500' FWL
Sec 24, T18S, R32E
Lea, County
New Mexico

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

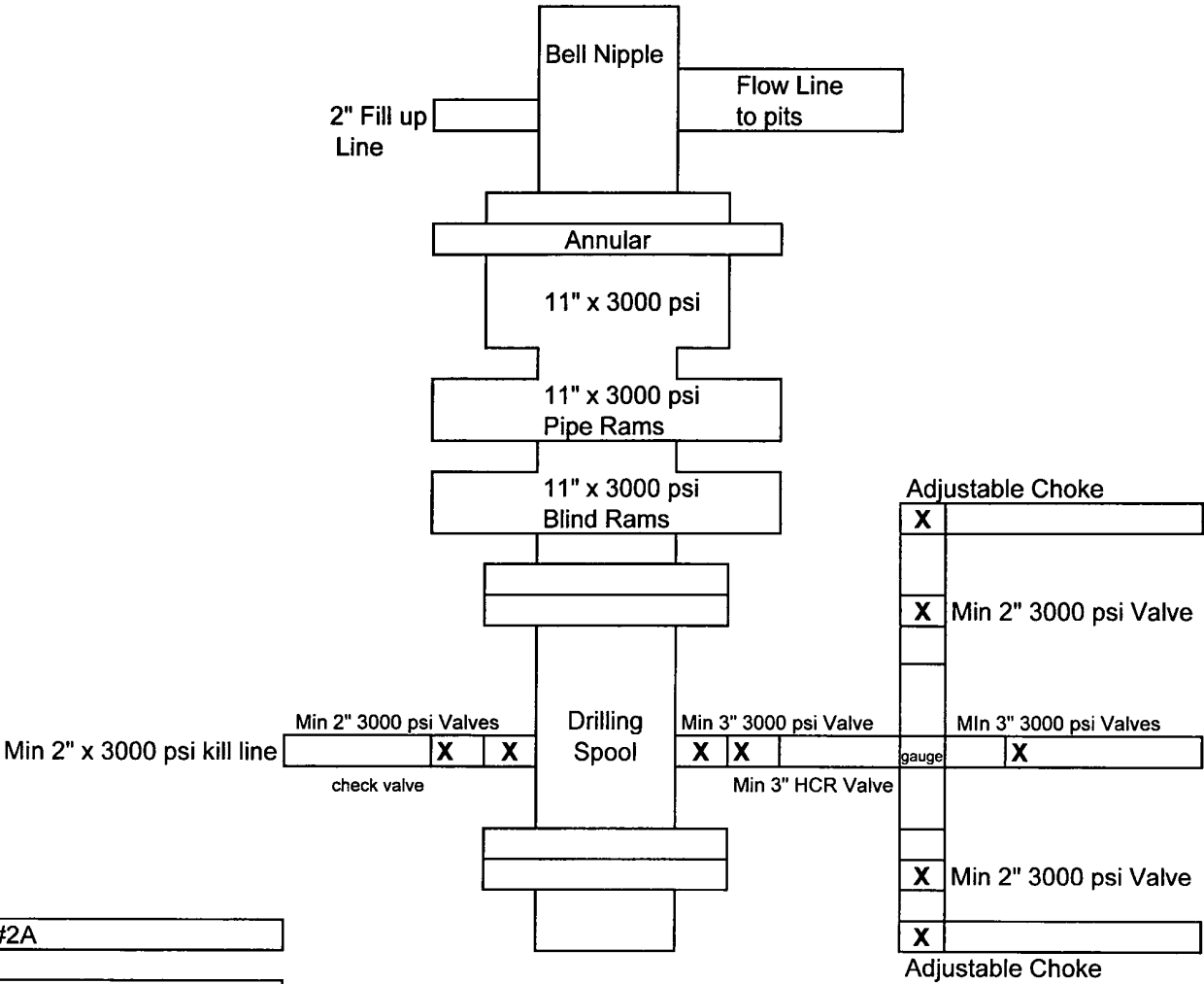
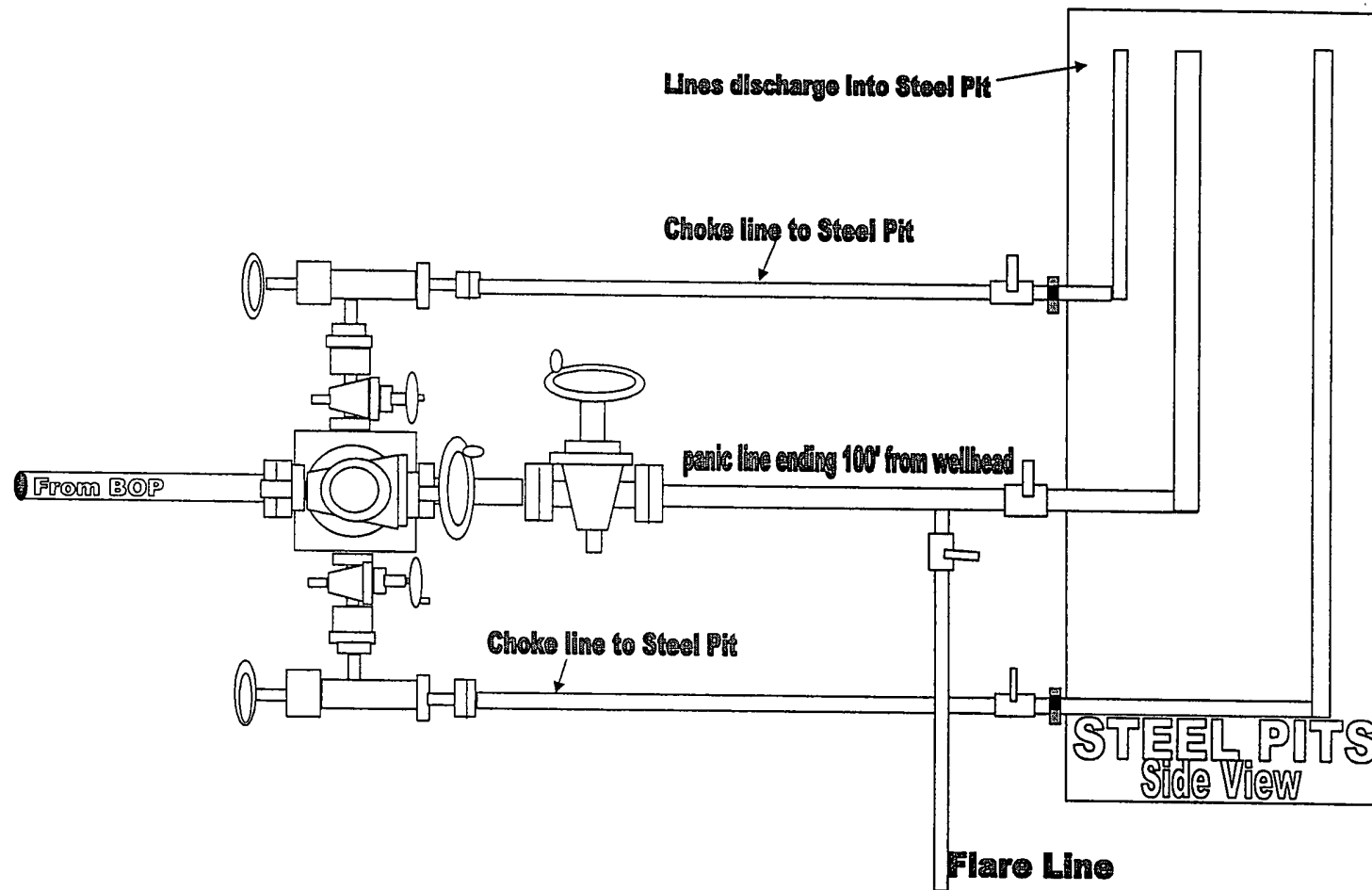
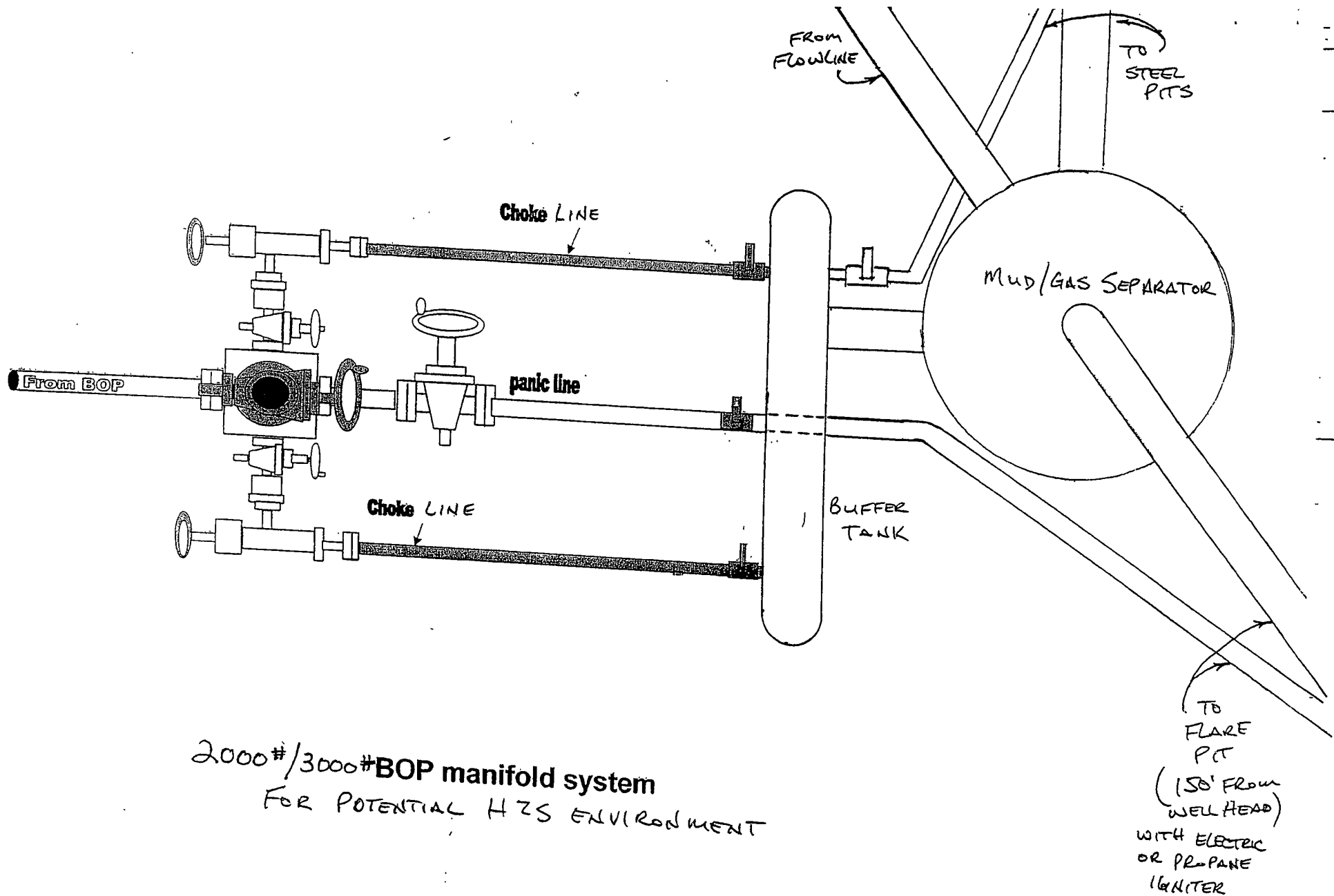


Exhibit #2A

Querecho 24 Fed Com #1H
330' FNL & 500' FWL
Sec 24, T18S, R32E
Lea, County
New Mexico



2000# & 3000# BOP manifold system for Exhibit 2 & 2A



2000#/3000# BOP manifold system
FOR POTENTIAL H₂S ENVIRONMENT

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Querecho 24 Federal Com #1H

330' FNL & 500' FWL (SHL)

Sec 24-T18S-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 2000 psi working pressure on 13 $\frac{3}{8}$ " casing and 3000 psi working pressure on 9 $\frac{5}{8}$ " & 7".
- 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.