

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

475-11-489
FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

HOBBS OCD
OCD-HOBBS

JUL 18 2011

RECEIVED

5. Lease Serial No.
LC029401 & NM9218 & NM8675 54

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No. **<38710>**
Querecho 22 Fed Com #1H

9. API Well No.

30-025-40191

10. Field and Pool, or Exploratory
Querecho Plains Lower BS **<50510>**

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

Sec 22 - T18S - R32E

12. County or Parish

Lea

13. State

NM

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 **<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 245' FSL & 815' FEL (SL) Unit P

At proposed prod. zone 330' FNL & 815' FEL (BHL) Unit A

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) 245'

16. No. of Acres in lease

40

17. Spacing Unit dedicated to this well

160

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. 443

19. Proposed Depth

13812' MD
9352' TVD

20. BLM/BIA Bond No on file

NM1693, Nationwide

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

3759' GL

22. Approximate date work will start*

ASAP

23 Estimated duration

40

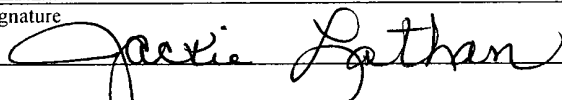
24. Attachments

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)

Jackie Lathan

Date

03/29/11

Title

Hobbs Regulatory

Approved by (Signature)

/s/ Don Peterson

Name (Printed/Typed)

Office

CARLSBAD FIELD OFFICE

Date

JUL 13 2011

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)

Capitan Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Querecho 22 Fed Com #1H

330' FNL & 815' FEL (BHL) Section 22, T18S, R32E

Eddy County, New Mexico

RECEIVED
4/25/11

Drilling Program
Mewbourne Oil Company
Querecho "22" Federal Com #1H
245' FSL & 815' FEL (SHL)
Sec 22-T18S-R32E
Lea County, New Mexico

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

Rustler	1120'
Yates	2680'
*Queen	3880'
*Delaware	4640'
*Bone Springs	6890'

4/21/11

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

Water	Fresh water is anticipated @ 350' and will be protected by setting surface casing at 1145' 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 8780' & kick off to horizontal @ 9352' TVD. The well will be drilled to 13812' MD (9212' 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'-1145' 1/85	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-2780'	LT&C
8 3/4"	7" (new)	26#	P110	0'-8780' MD	LT&C
8 3/4"	7" (new)	26#	P110	8780'-9680' MD	BT&C
6 1/8"	4 1/2" (new)	11.6#	P110	9480'-13812' MD	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: 340 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: 250 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 @ 2380' 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 using Packer/Port System

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

6. Mud Program:

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-1145' 1/45'	FW spud mud	8.6-9.0	32-34	NA
1145'-2780'	Brine water	10.0-10.2	28-30	NA
2780'-8700'	FW	8.3-8.6	28-30	NA
8700'- 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' (8680') to surface. GR from 8680' 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.

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JUL 18 2011

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Mewbourne Oil Co

Lea County, NM

Sec 22-18S-32E

Querecho 22 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 22 Federal Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3777.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3777.0usft (Patterson UTI)
Site:	Sec 22-18S-32E	North Reference:	Grid
Well:	Querecho 22 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 22-18S-32E		
Site Position:		Northing:	628,424.14 usft
From:	Map	Easting:	680,098.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 43' 34.558 N
		Longitude:	103° 44' 51.726 W
		Grid Convergence:	0.32 °

Well	Querecho 22 Federal Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	628,424.14 usft	Latitude:	32° 43' 34.558 N
	+E/-W	0.0 usft	Easting:	680,098.50 usft	Longitude:	103° 44' 51.726 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,759.0 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	60.63	48,921

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	359.50

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	
8,779.4	0.00	0.00	8,779.4	0.0	0.0	0.00	0.00	0.00	0.00	
9,698.9	91.95	359.50	9,352.0	592.4	-5.2	10.00	10.00	-0.05	359.50	
13,811.8	91.95	359.50	9,212.0	4,702.8	-41.3	0.00	0.00	0.00	0.00	PBHL Querecho 22

DDC

Well Planning Report



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Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3777.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3777.0usft (Patterson UTI)
Site:	Sec 22-18S-32E	North Reference:	Grid
Well:	Querecho 22 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
Build 10°/100° @ 8779' MD									
8,779.4	0.00	0.00	8,779.4	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	2.06	359.50	8,800.0	0.4	0.0	0.4	10.00	10.00	0.00
8,900.0	12.06	359.50	8,899.1	12.6	-0.1	12.6	10.00	10.00	0.00
9,000.0	22.06	359.50	8,994.6	41.9	-0.4	41.9	10.00	10.00	0.00
9,100.0	32.06	359.50	9,083.5	87.4	-0.8	87.4	10.00	10.00	0.00
9,200.0	42.06	359.50	9,163.2	147.6	-1.3	147.6	10.00	10.00	0.00
9,300.0	52.06	359.50	9,231.3	220.7	-1.9	220.7	10.00	10.00	0.00
9,400.0	62.06	359.50	9,285.6	304.5	-2.7	304.5	10.00	10.00	0.00
9,500.0	72.06	359.50	9,324.5	396.5	-3.5	396.5	10.00	10.00	0.00
9,600.0	82.06	359.50	9,346.9	493.8	-4.3	493.8	10.00	10.00	0.00
EOB @ 9699' MD / 91.95° Inc / 359.50° Azm / 9352' TVD									
9,698.9	91.95	359.50	9,352.0	592.4	-5.2	592.5	10.00	10.00	0.00
9,700.0	91.95	359.50	9,352.0	593.5	-5.2	593.6	0.00	0.00	0.00
9,800.0	91.95	359.50	9,348.6	693.5	-6.1	693.5	0.00	0.00	0.00
9,900.0	91.95	359.50	9,345.2	793.4	-7.0	793.4	0.00	0.00	0.00
10,000.0	91.95	359.50	9,341.8	893.3	-7.8	893.4	0.00	0.00	0.00
10,100.0	91.95	359.50	9,338.4	993.3	-8.7	993.3	0.00	0.00	0.00
10,200.0	91.95	359.50	9,335.0	1,093.2	-9.6	1,093.3	0.00	0.00	0.00

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: Querecho 22 Federal Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3777.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3777.0usft (Patterson UTI)
Site:	Sec 22-18S-32E	North Reference:	Grid
Well:	Querecho 22 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	91.95	359.50	9,331.6	1,193.2	-10.5	1,193.2	0.00	0.00	0.00	
10,400.0	91.95	359.50	9,328.2	1,293.1	-11.3	1,293.1	0.00	0.00	0.00	
10,500.0	91.95	359.50	9,324.8	1,393.0	-12.2	1,393.1	0.00	0.00	0.00	
10,600.0	91.95	359.50	9,321.3	1,493.0	-13.1	1,493.0	0.00	0.00	0.00	
10,700.0	91.95	359.50	9,317.9	1,592.9	-14.0	1,593.0	0.00	0.00	0.00	
10,800.0	91.95	359.50	9,314.5	1,692.9	-14.8	1,692.9	0.00	0.00	0.00	
10,900.0	91.95	359.50	9,311.1	1,792.8	-15.7	1,792.9	0.00	0.00	0.00	
11,000.0	91.95	359.50	9,307.7	1,892.7	-16.6	1,892.8	0.00	0.00	0.00	
11,100.0	91.95	359.50	9,304.3	1,992.7	-17.5	1,992.7	0.00	0.00	0.00	
11,200.0	91.95	359.50	9,300.9	2,092.6	-18.4	2,092.7	0.00	0.00	0.00	
11,300.0	91.95	359.50	9,297.5	2,192.5	-19.2	2,192.6	0.00	0.00	0.00	
11,400.0	91.95	359.50	9,294.1	2,292.5	-20.1	2,292.6	0.00	0.00	0.00	
11,500.0	91.95	359.50	9,290.7	2,392.4	-21.0	2,392.5	0.00	0.00	0.00	
11,600.0	91.95	359.50	9,287.3	2,492.4	-21.9	2,492.5	0.00	0.00	0.00	
11,700.0	91.95	359.50	9,283.9	2,592.3	-22.7	2,592.4	0.00	0.00	0.00	
11,800.0	91.95	359.50	9,280.5	2,692.2	-23.6	2,692.3	0.00	0.00	0.00	
11,900.0	91.95	359.50	9,277.1	2,792.2	-24.5	2,792.3	0.00	0.00	0.00	
12,000.0	91.95	359.50	9,273.7	2,892.1	-25.4	2,892.2	0.00	0.00	0.00	
12,100.0	91.95	359.50	9,270.3	2,992.0	-26.2	2,992.2	0.00	0.00	0.00	
12,200.0	91.95	359.50	9,266.9	3,092.0	-27.1	3,092.1	0.00	0.00	0.00	
12,300.0	91.95	359.50	9,263.5	3,191.9	-28.0	3,192.0	0.00	0.00	0.00	
12,400.0	91.95	359.50	9,260.1	3,291.9	-28.9	3,292.0	0.00	0.00	0.00	
12,500.0	91.95	359.50	9,256.7	3,391.8	-29.8	3,391.9	0.00	0.00	0.00	
12,600.0	91.95	359.50	9,253.3	3,491.7	-30.6	3,491.9	0.00	0.00	0.00	
12,700.0	91.95	359.50	9,249.9	3,591.7	-31.5	3,591.8	0.00	0.00	0.00	
12,800.0	91.95	359.50	9,246.4	3,691.6	-32.4	3,691.8	0.00	0.00	0.00	
12,900.0	91.95	359.50	9,243.0	3,791.6	-33.3	3,791.7	0.00	0.00	0.00	
13,000.0	91.95	359.50	9,239.6	3,891.5	-34.1	3,891.6	0.00	0.00	0.00	
13,100.0	91.95	359.50	9,236.2	3,991.4	-35.0	3,991.6	0.00	0.00	0.00	
13,200.0	91.95	359.50	9,232.8	4,091.4	-35.9	4,091.5	0.00	0.00	0.00	
13,300.0	91.95	359.50	9,229.4	4,191.3	-36.8	4,191.5	0.00	0.00	0.00	
13,400.0	91.95	359.50	9,226.0	4,291.2	-37.6	4,291.4	0.00	0.00	0.00	
13,500.0	91.95	359.50	9,222.6	4,391.2	-38.5	4,391.4	0.00	0.00	0.00	
13,600.0	91.95	359.50	9,219.2	4,491.1	-39.4	4,491.3	0.00	0.00	0.00	
13,700.0	91.95	359.50	9,215.8	4,591.1	-40.3	4,591.2	0.00	0.00	0.00	
13,800.0	91.95	359.50	9,212.4	4,691.0	-41.1	4,691.2	0.00	0.00	0.00	
TD @ 13812' MD/ 9212' TVD										
13,811.8	91.95	359.50	9,212.0	4,702.8	-41.3	4,703.0	0.00	0.00	0.00	

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL Querecho 22 F	- plan hits target center	0.00	0.00	9,212.0	4,702.8	-41.3	633,126.98	680,057.24	32° 44' 21.095 N	103° 44' 51.905 W
	- Point									

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Querecho 22 Federal Com #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3777.0usft (Patterson UTI)
Project:	Lea County, NM	MD Reference:	WELL @ 3777.0usft (Patterson UTI)
Site:	Sec 22-18S-32E	North Reference:	Grid
Well:	Querecho 22 Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

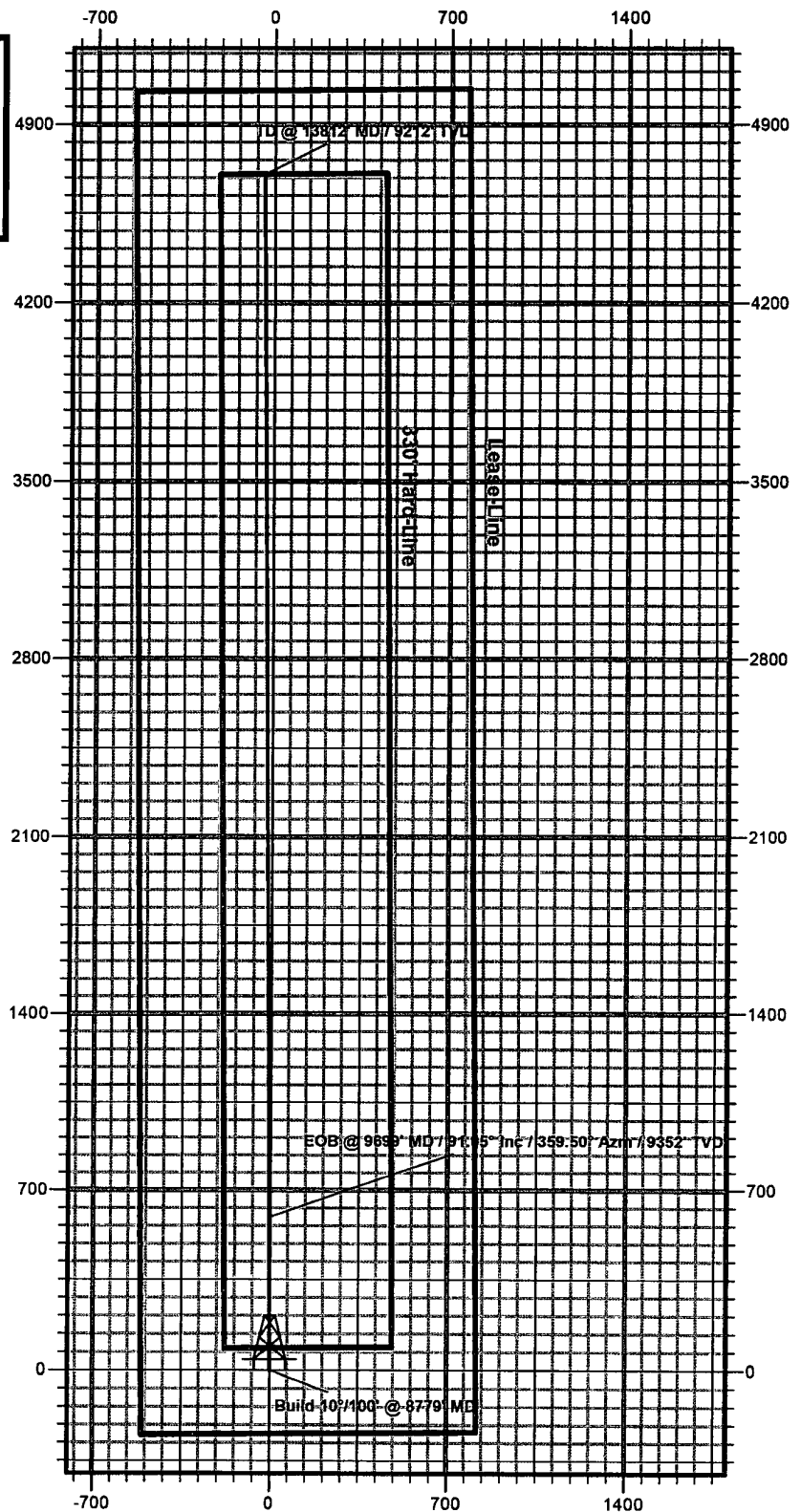
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,779.4	8,779.4	0.0	0.0	Build 10°/100' @ 8779' MD
9,698.9	9,352.0	592.4	-5.2	EOB @ 9699' MD / 91.95° Inc / 359.50° Azm / 9352' TVD
13,811.8	9,212.0	4,702.8	-41.3	TD @ 13812' MD / 9212' TVD

Mewbourne Oil Company

Lea County, NM

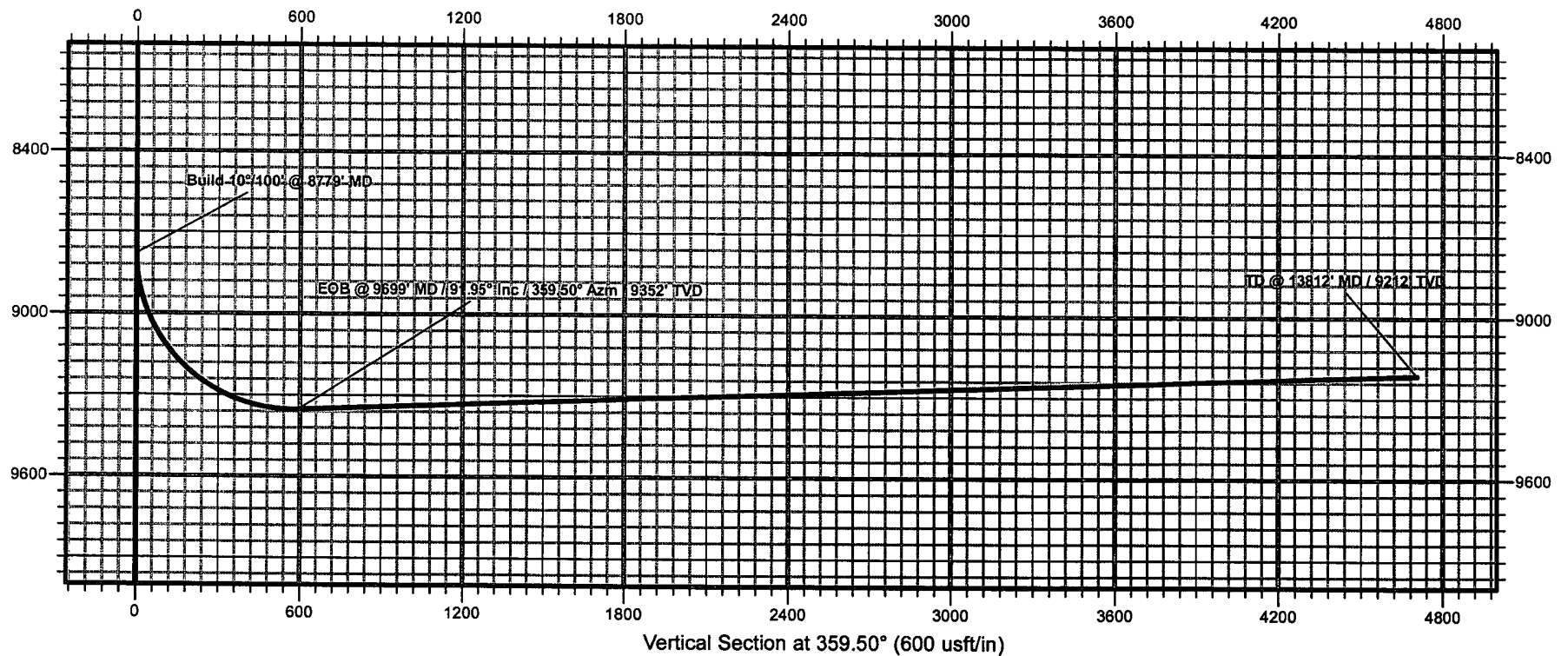
Querecho 22 Federal Com #1H

Q110247



Mewbourne Oil Company

Lea County, NM
Querecho 22 Federal Com #1H
Q110247



Closed Loop Pad Dimensions 280' x 320'

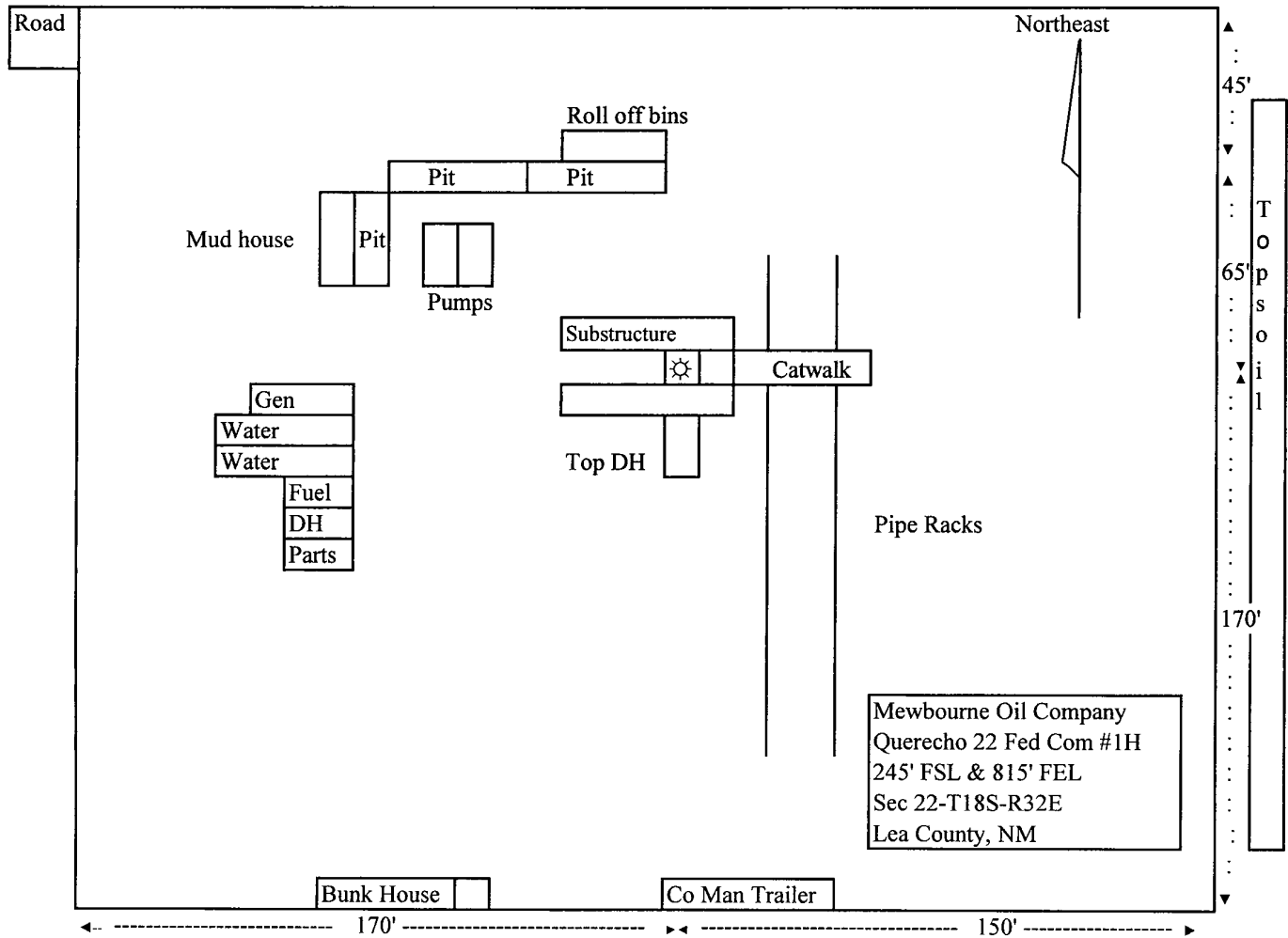
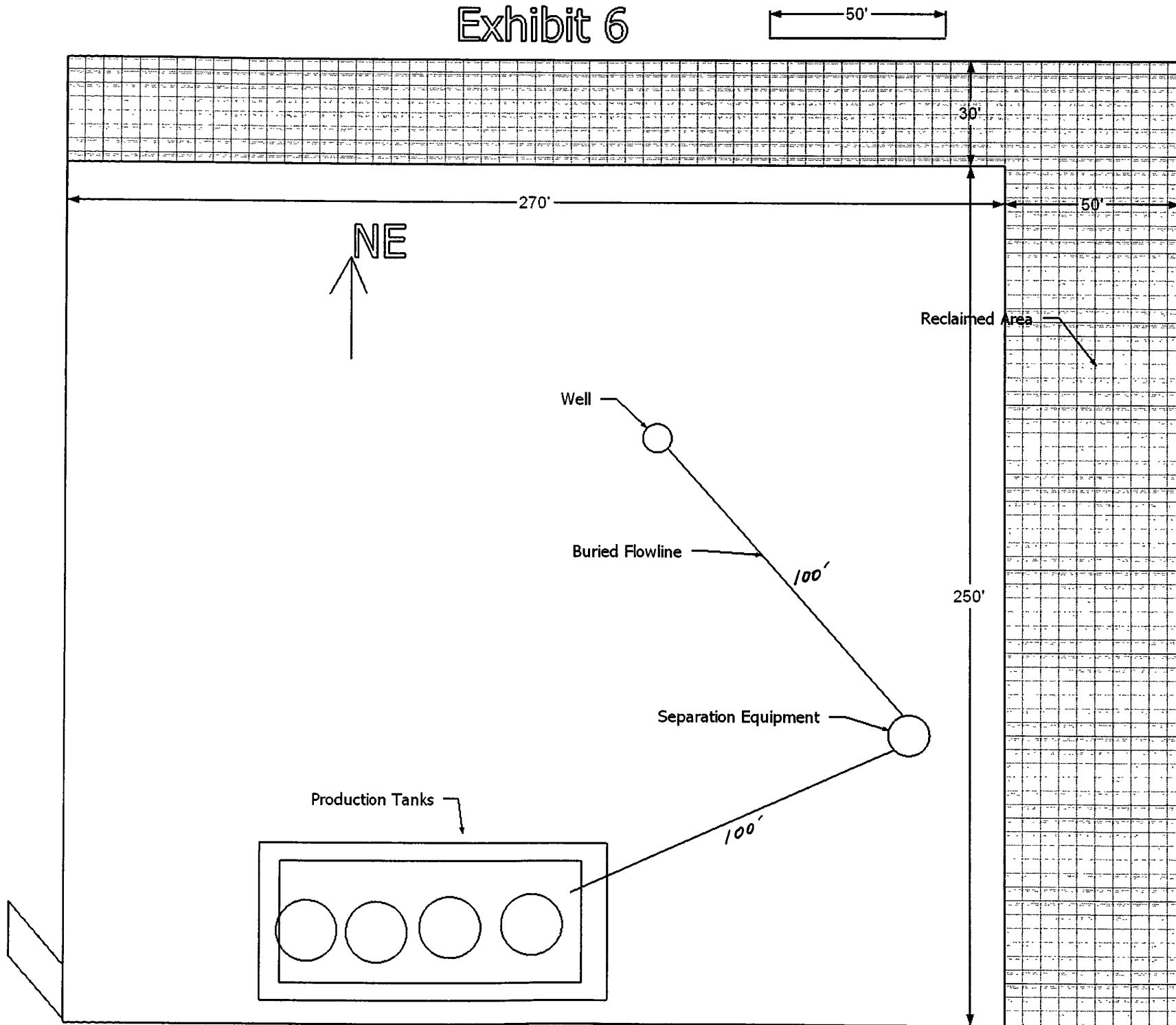


Exhibit 5

Exhibit 6



Notes Regarding Blowout Preventer

Mewbourne Oil Company

Querecho 22 Federal Com #1H

245' FSL & 815' FEL (SHL)

Sec 22-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.

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

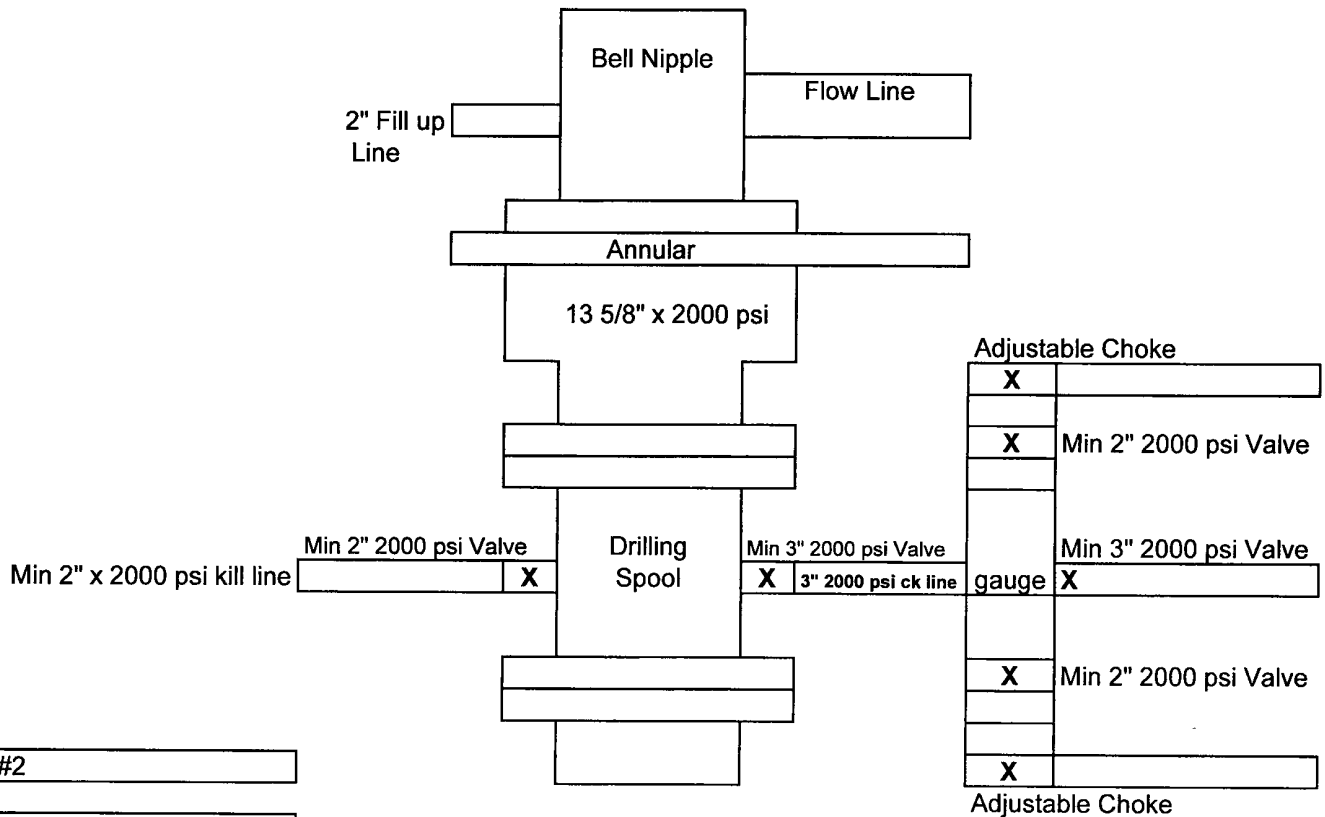


Exhibit #2

Querecho 22 Fed Com #1H
245' FSL & 815' FEL
Sec 22, T18S, R32E
Lea, County
New Mexico

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

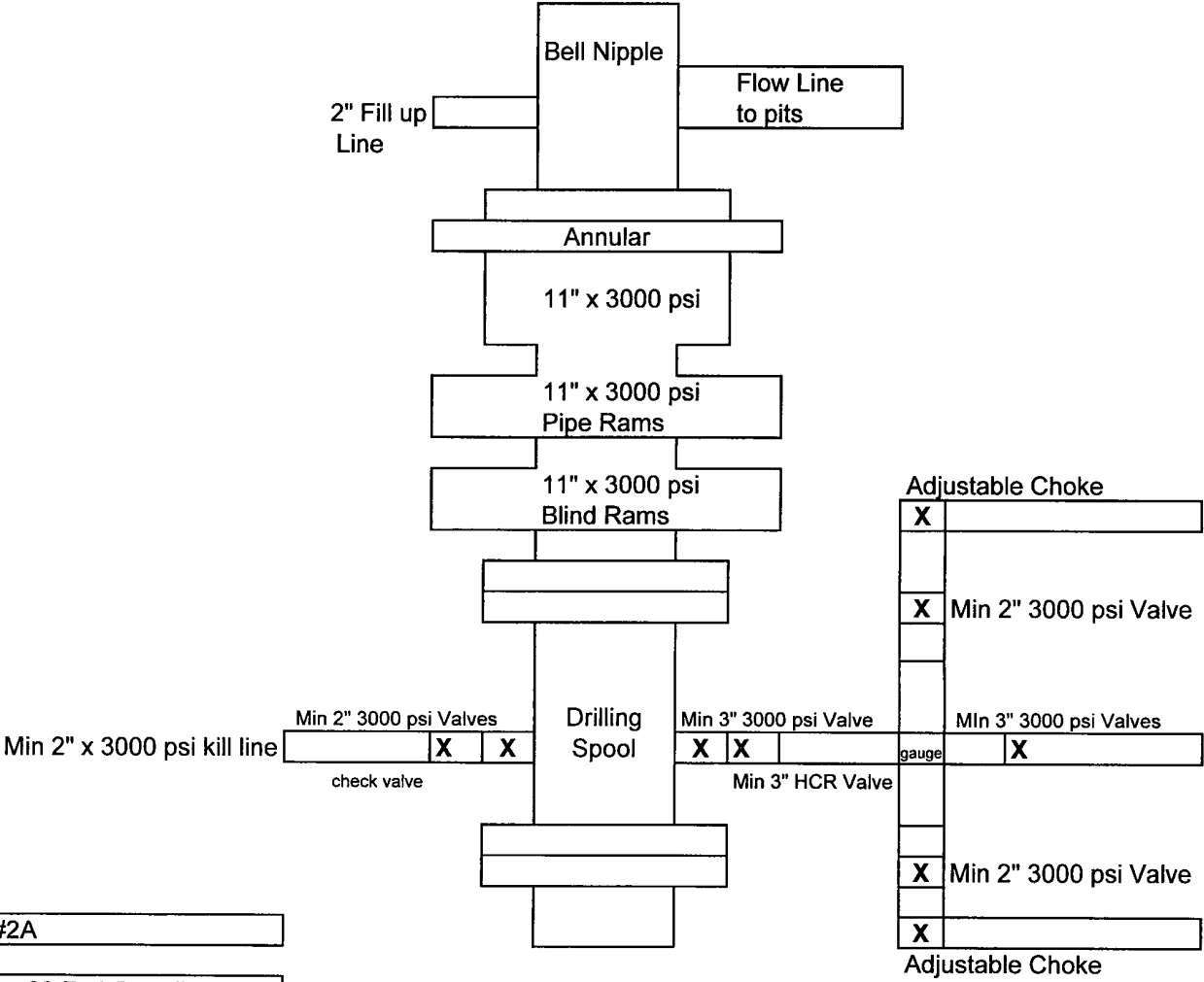
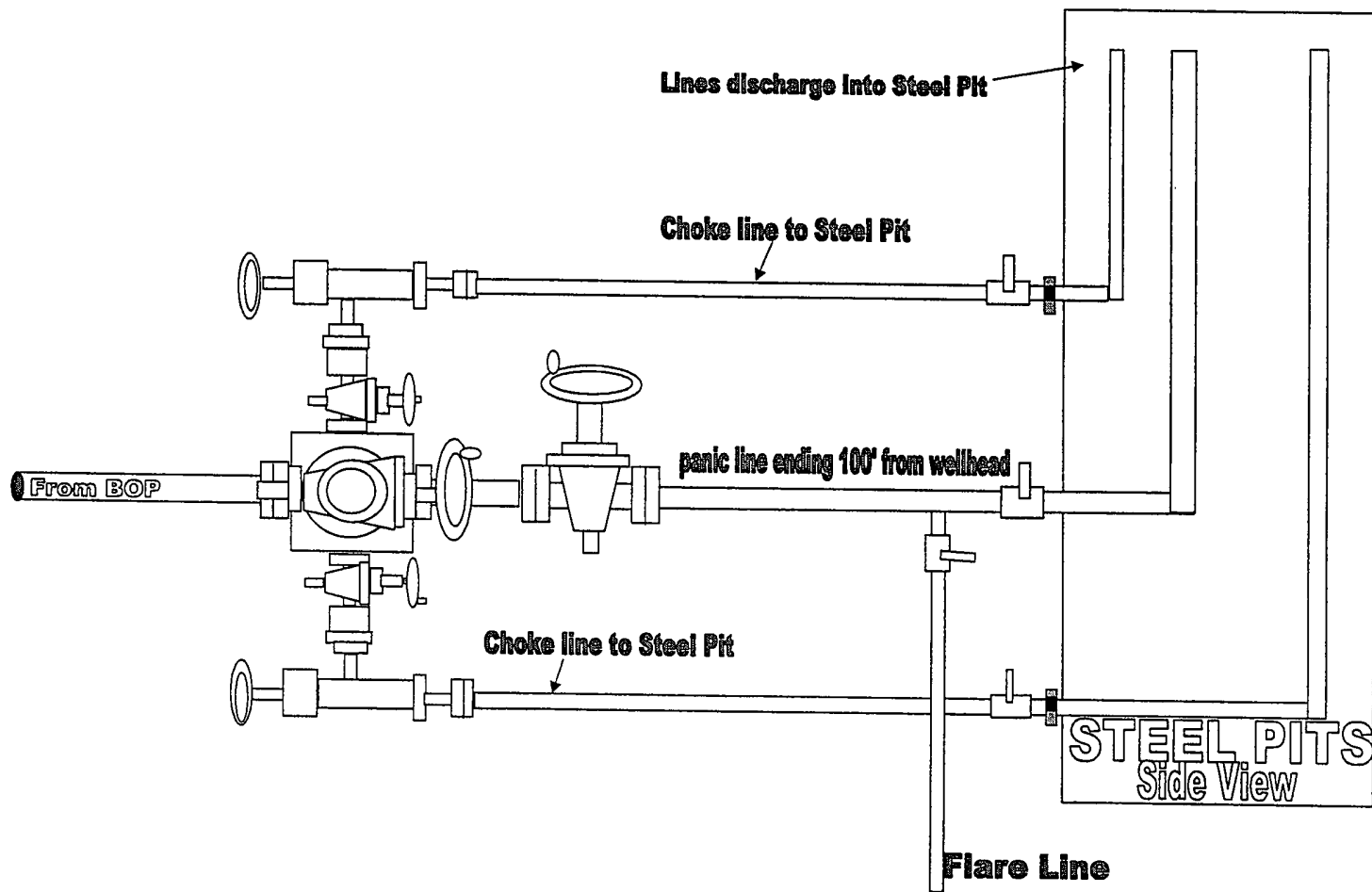
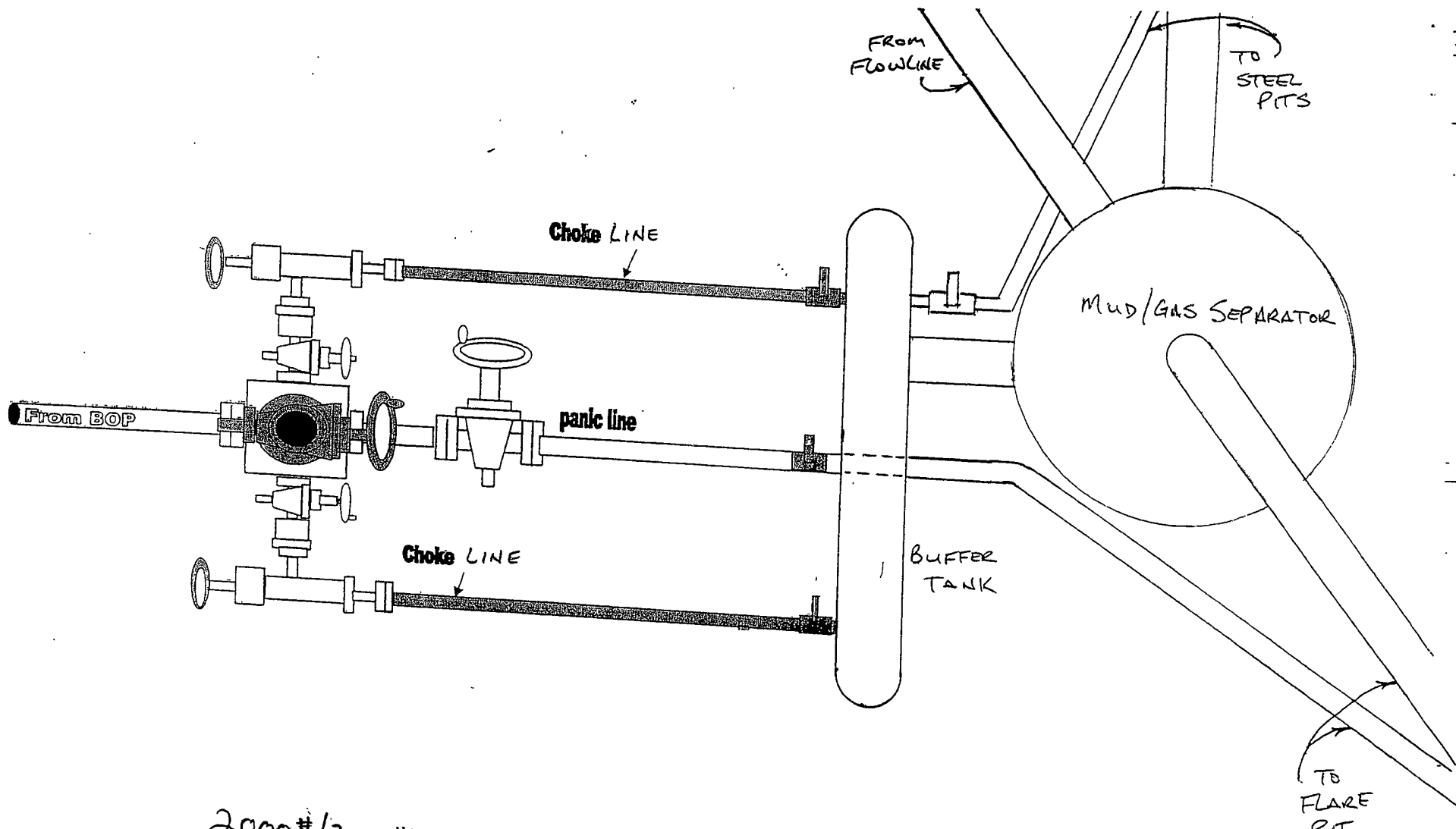


Exhibit #2A

Querecho 22 Fed Com #1H
245' FSL & 815' FEL
Sec 22, T18S, R32E
Lea, County
New Mexico



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



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