

HOBBS OCD

OCD-HOBBS

ATS-12-351

Form 3160-3
(August 2007)

MAY 23 2012

RECEIVED

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, 20105 Lease Serial No.
NM 63368

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
Norte "13" HE Fed #1H <39240>9. API Well No.
30-025-4058810. Field and Pool, or Exploratory
Lusk Plant Bone Spring E <41442>11. Sec., T. R. M. or Blk. and Survey or Area
Sec 13, T19S, R32E12. County or Parish
Lea13. State
NM1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator Mewbourne Oil Company

3a. Address PO Box 5270
Hobbs, NM 882403b. Phone No. (include area code)
(575) 393-5905

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

At surface 1780' FNL & 330' FEL (Unit H)

At proposed prod. zone 1780' FNL & 330' FWL (Unit E)

14. Distance in miles and direction from nearest town or post office*
33.7 miles West of Hobbs, NM15. 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
320 64017. Spacing Unit dedicated to this well
320

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 200' North of the Norte "13" Fed #1

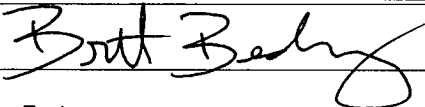
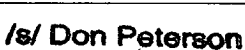
19. Proposed Depth
14234' MD
9822' TVD20. BLM/BIA Bond No. on file
NM1693, Nationwide21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3637' GL22. Approximate date work will start*
07/01/201223. Estimated duration
42 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. I, 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 Name (Printed/Typed)
Brett BednarzDate
02/09/2012Title
Petroleum EngineerApproved by (Signature)  /s/ Don Peterson

Name (Printed/Typed) /s/ Don Peterson

Date
MAY 18 2012Title
FOR FIELD MANAGEROffice
CARLSBAD FIELD OFFICEApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

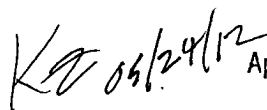
APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

**United States Department of the Interior
Bureau of Land Management
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201-1287**

Statement Accepting Responsibility for Operations

Operator Name: Mewbourne Oil Company
Street or Box: P.O. Box 5270
City, State: Hobbs, New Mexico
Zip Code: 88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number: Lease Number # NM 63368

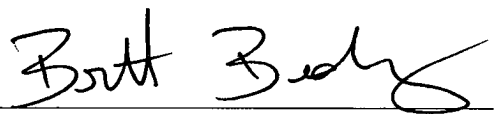
Legal Description of Land: Section 13, T-19S, R-32E Lea County, New Mexico.
Location @ 1780' FNL & 330' FEL.

Formation (if applicable): Bone Springs

Bond Coverage: \$150,000

BLM Bond File: NM1693, Nationwide

Authorized Signature: _____

 for NM Young

Name: NM (Mickey) Young

Title: District Manager

Date: 2-9-12

Drilling Program
Mewbourne Oil Company
 Norte "13" HE Fed #1H
 1780' FNL & 330' FEL (SHL)
 Sec 13-T19S-R32E
 Lea County, New Mexico

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

Rustler	1310'
Top of Salt	1450'
Base of Salt	2800'
Yates	3025'
Capitan	3312'
*Queen	4160'
Grayburg	4655'
*San Andres	5010'
*Delaware	5860'
*Bone Springs	7625'

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

Water	Fresh water is anticipated @ 330' and will be protected by setting surface casing at 1335' 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 BOP will be installed after running 13 3/8" casing. A 3000# WP double ram BOP and 3000# WP annular will be installed after running 9 5/8" and 7" casing strings. 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. BOPs 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 9 5/8" and 7" BOPE to 3000# and Annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. Drilling Program:

MOC proposes to drill a vertical wellbore to 9345' & kick off to horizontal @ 9822' TVD. The well will be drilled to 14234' MD (9747' TVD). See attached directional plan.

5. Proposed casing and cementing program:

See CoA →

A. Casing Program:						
Hole Size	Casing	Wt/Ft	Grade	Depth	Jt Type	
17 1/2"	13 3/8" (new)	48#	H40	0'-1335' 1400	ST&C	
12 1/4"	9 5/8" (new)	36# <i>40</i>	HC K55 <i>J55</i>	0'-4250' 4400	ST&C	
8 3/4"	7" (new)	26#	P110	0-9345' MD	LT&C	
8 3/4"	7" (new)	26#	P110	9345'-10094' MD	BT&C	
6 1/8"	4 1/2" (new)	11.63	P110	9800'-13875' MD	LT&C	

Per Operator 5/17/12 CRW

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

*Subject to availability of casing.

B. Cementing Program:

- See LOA*
- i. Surface Casing: 750 sks class "C" lite (35:65:4) cement w/salt and LCM additives. Yield at 2.05 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: 540 sks class "C" lite (35:65:4) cement w/salt, fluid loss, and LCM additives. Yield at 2.05 cuft/sk. 400 sks class "C" w/1% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
 - iii. Production Casing: 630 sks class "H" lite (35:65:4) cement w/ salt & LCM additives. Yield @ 2.12 cuft/sk. 400 sks class "H" cement. Yield @ 1.18 cuft/sk. Cmt circulated to surface w/25% excess.
 - iv. Production Liner: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

*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.

6. Mud Program:

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-1335' <i>1400</i>	FW spud mud	8.6-9.0	32-34	NA
1335'-4250' <i>4400</i>	Brine water	10.0	28-30	NA
4250'-9345' (KOP)	Cut Brine	8.5-8.7	28-30	NA
9345'-TD	Cut Brine w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program: *See LOA*

Samples: 10' samples from surface casing to TD
Logging: CN, GR & Gyro from KOP -100' (9245') to surface. GR from 9245' 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 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.



Mewbourne Oil Company

Location Lea County, NM
Field (Norte) Sec 13, T18S, R32E
Facility Norte 13 Fed Com No.3H

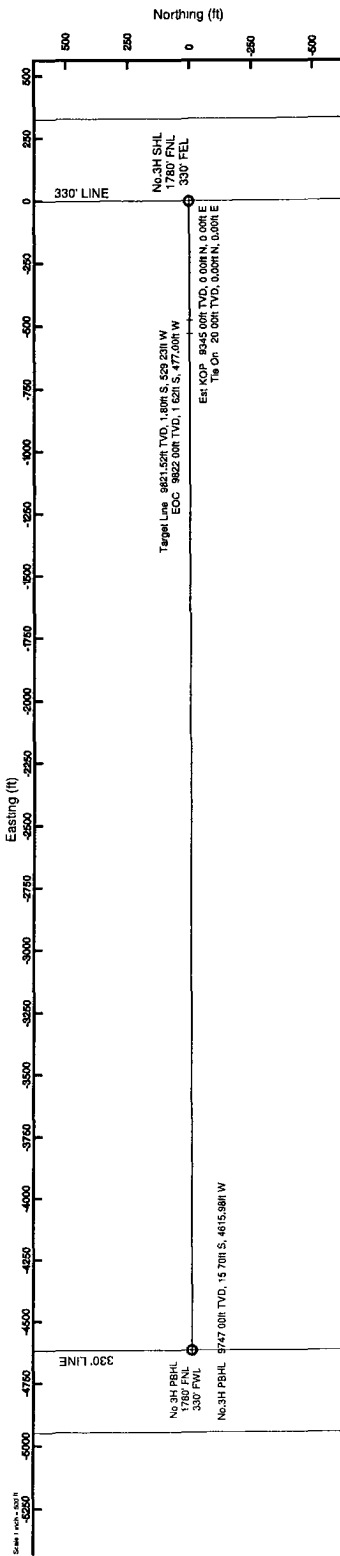
Mewbourne Oil Company

Slot No.3H SHL
Well No.3H
Wellbore No.3H PWB

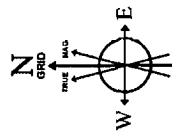


Well Profile Data

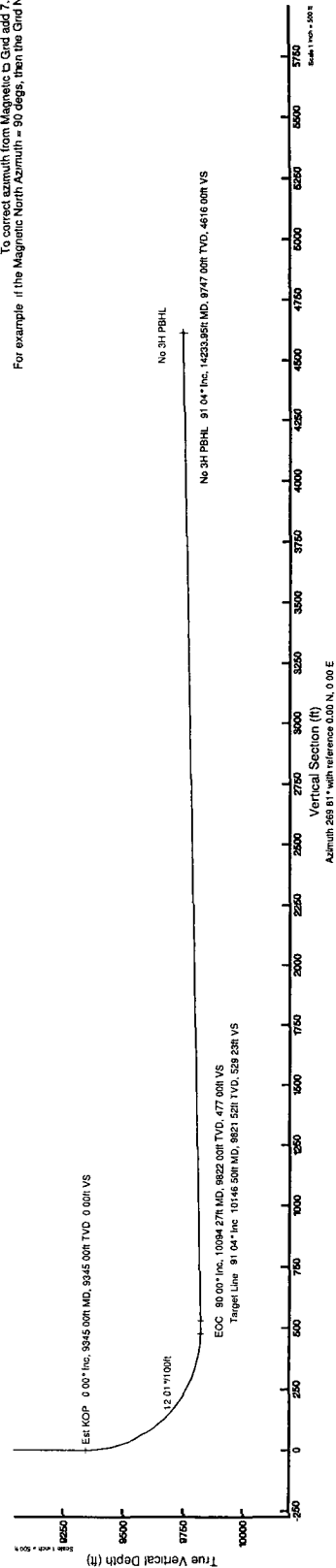
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	20.00	0.000	269.805	20.00	0.00	0.00	0.00	0.00
Est KOP	9345.00	0.000	269.805	9345.00	0.00	0.00	0.00	0.00
EOC	10094.27	90.000	269.805	9822.00	-1.62	-477.00	12.01	477.00
Target Line	10146.50	91.045	269.805	9821.52	-1.80	-529.23	2.00	529.23
No.3H PBHL	14233.95	91.045	269.805	9747.00	-15.70	-4615.98	0.00	4616.00



Plot reference wellpath is Prelim. 2	Grid System NAD2011/TM New Mexico SP, Eastern Zone (2011), US feet
True vertical depths are referenced to Rig on No.3H SHL (KB)	North Reference Grid north
Measured depths are referenced to Rig on No.3H SHL (KB)	Scale True distance
Rig on No.3H SHL (KB) to Mean Sea Level 3557 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot No.3H SHL) -3637 feet	Coordinates are in feet referenced to Slot
Coordinates are in feet referenced to Slot	Created by geobry on 1/30/2012



BGGM (1945.0 to 2013.0) Dip 60.53° Field 48811.8 nT
Magnetic North is 7.69 degrees East of True North (at 1/27/2012)
To correct azimuth from True to Grid subtract 0.34 degrees
To correct azimuth from Magnetic to Grid add 7.35 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.35 = 97.35



Planned Wellpath Report

Prelim_2

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.3H SHL
Area	Lea County, NM	Well	No.3H
Field	(Norte) Sec 13, T19S, R32E	Wellbore	No.3H PWB
Facility	Norte 13 Fed Com No.3H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999951	Report Generated	1/30/2012 at 6:26:41 AM
Convergence at slot	0.34° East	Database/Source file	WA Midland/No.3H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W
Facility Reference Pt			691290.14	605306.90	32°39'45.180"N	103°42'42.307"W
Field Reference Pt			691290.14	605306.90	32°39'45.180"N	103°42'42.307"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.3H SHL (KB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Rig on No.3H SHL (KB) to Mean Sea Level	3657.00ft
Vertical Reference Pt	Rig on No.3H SHL (KB)	Rig on No.3H SHL (KB) to Mud Line at Slot (No.3H SHL)	20.00ft
MD Reference Pt	Rig on No.3H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.81°

Planned Wellpath Report

Mewbourne Oil Company

Prelim_2
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REFERENCE WELLPATH IDENTIFICATION			
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Field	(Norte) Sec 13, T19S, R32E	Wellbore	No.3H PWB
Facility	Norte 13 Fed Com No.3H		

WELLPATH DATA (148 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	269.805	0.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
20.00	0.000	269.805	20.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	Tie On
120.00†	0.000	269.805	120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
220.00†	0.000	269.805	220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
320.00†	0.000	269.805	320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
420.00†	0.000	269.805	420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
520.00†	0.000	269.805	520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
620.00†	0.000	269.805	620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
720.00†	0.000	269.805	720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
820.00†	0.000	269.805	820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
920.00†	0.000	269.805	920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1020.00†	0.000	269.805	1020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1120.00†	0.000	269.805	1120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1220.00†	0.000	269.805	1220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1320.00†	0.000	269.805	1320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1420.00†	0.000	269.805	1420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1520.00†	0.000	269.805	1520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1620.00†	0.000	269.805	1620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1720.00†	0.000	269.805	1720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1820.00†	0.000	269.805	1820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
1920.00†	0.000	269.805	1920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2020.00†	0.000	269.805	2020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2120.00†	0.000	269.805	2120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2220.00†	0.000	269.805	2220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2320.00†	0.000	269.805	2320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2420.00†	0.000	269.805	2420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2520.00†	0.000	269.805	2520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2620.00†	0.000	269.805	2620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2720.00†	0.000	269.805	2720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2820.00†	0.000	269.805	2820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
2920.00†	0.000	269.805	2920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3020.00†	0.000	269.805	3020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3120.00†	0.000	269.805	3120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3220.00†	0.000	269.805	3220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3320.00†	0.000	269.805	3320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3420.00†	0.000	269.805	3420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3520.00†	0.000	269.805	3520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3620.00†	0.000	269.805	3620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3720.00†	0.000	269.805	3720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3820.00†	0.000	269.805	3820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
3920.00†	0.000	269.805	3920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4020.00†	0.000	269.805	4020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4120.00†	0.000	269.805	4120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4220.00†	0.000	269.805	4220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4320.00†	0.000	269.805	4320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	

Planned Wellpath Report

Prelim_2
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.3H SHL
Area	Lea County, NM	Well	No.3H
Field	(Norte) Sec 13, T19S, R32E	Wellbore	No.3H PWB
Facility	Norte 13 Fed Com No.3H		

WELLPATH DATA (148 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4420.00†	0.000	269.805	4420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4520.00†	0.000	269.805	4520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4620.00†	0.000	269.805	4620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4720.00†	0.000	269.805	4720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4820.00†	0.000	269.805	4820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
4920.00†	0.000	269.805	4920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5020.00†	0.000	269.805	5020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5120.00†	0.000	269.805	5120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5220.00†	0.000	269.805	5220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5320.00†	0.000	269.805	5320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5420.00†	0.000	269.805	5420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5520.00†	0.000	269.805	5520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5620.00†	0.000	269.805	5620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5720.00†	0.000	269.805	5720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5820.00†	0.000	269.805	5820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
5920.00†	0.000	269.805	5920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6020.00†	0.000	269.805	6020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6120.00†	0.000	269.805	6120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6220.00†	0.000	269.805	6220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6320.00†	0.000	269.805	6320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6420.00†	0.000	269.805	6420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6520.00†	0.000	269.805	6520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6620.00†	0.000	269.805	6620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6720.00†	0.000	269.805	6720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6820.00†	0.000	269.805	6820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
6920.00†	0.000	269.805	6920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7020.00†	0.000	269.805	7020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7120.00†	0.000	269.805	7120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7220.00†	0.000	269.805	7220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7320.00†	0.000	269.805	7320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7420.00†	0.000	269.805	7420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7520.00†	0.000	269.805	7520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7620.00†	0.000	269.805	7620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7720.00†	0.000	269.805	7720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7820.00†	0.000	269.805	7820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
7920.00†	0.000	269.805	7920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8020.00†	0.000	269.805	8020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8120.00†	0.000	269.805	8120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8220.00†	0.000	269.805	8220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8320.00†	0.000	269.805	8320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8420.00†	0.000	269.805	8420.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8520.00†	0.000	269.805	8520.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8620.00†	0.000	269.805	8620.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8720.00†	0.000	269.805	8720.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
8820.00†	0.000	269.805	8820.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No.3H SHL
Area	Lea County, NM	Well	No.3H
Field	(Norte) Sec 13, T19S, R32E	Wellbore	No.3H PWB
Facility	Norte 13 Fed Com No.3H		

WELLPATH DATA (148 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8920.00†	0.000	269.805	8920.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
9020.00†	0.000	269.805	9020.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
9120.00†	0.000	269.805	9120.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
9220.00†	0.000	269.805	9220.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
9320.00†	0.000	269.805	9320.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	
9345.00	0.000	269.805	9345.00	0.00	0.00	0.00	691290.14	605306.90	32°39'45.180"N	103°42'42.307"W	0.00	Est KOP
9420.00†	9.009	269.805	9419.69	5.88	-0.02	-5.88	691284.26	605306.88	32°39'45.181"N	103°42'42.376"W	12.01	
9520.00†	21.020	269.805	9516.10	31.74	-0.11	-31.74	691258.40	605306.79	32°39'45.181"N	103°42'42.678"W	12.01	
9620.00†	33.032	269.805	9605.02	77.10	-0.26	-77.10	691213.04	605306.64	32°39'45.182"N	103°42'43.209"W	12.01	
9720.00†	45.044	269.805	9682.55	139.97	-0.48	-139.97	691150.18	605306.42	32°39'45.184"N	103°42'43.944"W	12.01	
9820.00†	57.056	269.805	9745.30	217.60	-0.74	-217.59	691072.56	605306.16	32°39'45.186"N	103°42'44.852"W	12.01	
9920.00†	69.067	269.805	9790.52	306.58	-1.04	-306.58	690983.58	605305.86	32°39'45.188"N	103°42'45.893"W	12.01	
10020.00†	81.079	269.805	9816.23	403.03	-1.37	-403.03	690887.13	605305.53	32°39'45.190"N	103°42'47.021"W	12.01	
10094.27	90.000	269.805	9822.00	477.00	-1.62	-477.00	690813.17	605305.28	32°39'45.192"N	103°42'47.886"W	12.01	EOC
10120.00†	90.515	269.805	9821.88	502.73	-1.71	-502.73	690787.44	605305.19	32°39'45.193"N	103°42'48.187"W	2.00	
10146.50	91.045	269.805	9821.52	529.23	-1.80	-529.23	690760.94	605305.10	32°39'45.193"N	103°42'48.497"W	2.00	Target Line
10220.00†	91.045	269.805	9820.18	602.72	-2.05	-602.71	690687.46	605304.85	32°39'45.195"N	103°42'49.357"W	0.00	
10320.00†	91.045	269.805	9818.36	702.70	-2.39	-702.69	690587.48	605304.51	32°39'45.197"N	103°42'50.526"W	0.00	
10420.00†	91.045	269.805	9816.54	802.68	-2.73	-802.68	690487.50	605304.17	32°39'45.200"N	103°42'51.696"W	0.00	
10520.00†	91.045	269.805	9814.71	902.67	-3.07	-902.66	690387.53	605303.83	32°39'45.202"N	103°42'52.865"W	0.00	
10620.00†	91.045	269.805	9812.89	1002.65	-3.41	-1002.64	690287.55	605303.49	32°39'45.205"N	103°42'54.035"W	0.00	
10720.00†	91.045	269.805	9811.07	1102.63	-3.75	-1102.63	690187.57	605303.15	32°39'45.207"N	103°42'55.204"W	0.00	
10820.00†	91.045	269.805	9809.24	1202.62	-4.09	-1202.61	690087.59	605302.81	32°39'45.209"N	103°42'56.374"W	0.00	
10920.00†	91.045	269.805	9807.42	1302.60	-4.43	-1302.59	689987.62	605302.47	32°39'45.212"N	103°42'57.543"W	0.00	
11020.00†	91.045	269.805	9805.60	1402.58	-4.77	-1402.57	689887.64	605302.13	32°39'45.214"N	103°42'58.713"W	0.00	
11120.00†	91.045	269.805	9803.77	1502.57	-5.11	-1502.56	689787.66	605301.79	32°39'45.217"N	103°42'59.882"W	0.00	
11220.00†	91.045	269.805	9801.95	1602.55	-5.45	-1602.54	689687.68	605301.45	32°39'45.219"N	103°43'01.052"W	0.00	
11320.00†	91.045	269.805	9800.13	1702.53	-5.79	-1702.52	689587.70	605301.11	32°39'45.221"N	103°43'02.221"W	0.00	
11420.00†	91.045	269.805	9798.30	1802.52	-6.13	-1802.51	689487.73	605300.77	32°39'45.224"N	103°43'03.391"W	0.00	
11520.00†	91.045	269.805	9796.48	1902.50	-6.47	-1902.49	689387.75	605300.43	32°39'45.226"N	103°43'04.560"W	0.00	
11620.00†	91.045	269.805	9794.66	2002.48	-6.81	-2002.47	689287.77	605300.09	32°39'45.228"N	103°43'05.729"W	0.00	
11720.00†	91.045	269.805	9792.84	2102.47	-7.15	-2102.45	689187.79	605299.75	32°39'45.231"N	103°43'06.899"W	0.00	
11820.00†	91.045	269.805	9791.01	2202.45	-7.49	-2202.44	689087.82	605299.41	32°39'45.233"N	103°43'08.068"W	0.00	
11920.00†	91.045	269.805	9789.19	2302.43	-7.83	-2302.42	688987.84	605299.07	32°39'45.236"N	103°43'09.238"W	0.00	
12020.00†	91.045	269.805	9787.37	2402.42	-8.17	-2402.40	688887.86	605298.73	32°39'45.238"N	103°43'10.407"W	0.00	
12120.00†	91.045	269.805	9785.54	2502.40	-8.51	-2502.38	688787.88	605298.39	32°39'45.240"N	103°43'11.577"W	0.00	
12220.00†	91.045	269.805	9783.72	2602.38	-8.85	-2602.37	688687.91	605298.05	32°39'45.243"N	103°43'12.746"W	0.00	
12320.00†	91.045	269.805	9781.90	2702.37	-9.19	-2702.35	688587.93	605297.71	32°39'45.245"N	103°43'13.916"W	0.00	
12420.00†	91.045	269.805	9780.07	2802.35	-9.53	-2802.33	688487.95	605297.37	32°39'45.247"N	103°43'15.085"W	0.00	
12520.00†	91.045	269.805	9778.25	2902.33	-9.87	-2902.32	688387.97	605297.03	32°39'45.250"N	103°43'16.255"W	0.00	
12620.00†	91.045	269.805	9776.43	3002.32	-10.21	-3002.30	688287.99	605296.69	32°39'45.252"N	103°43'17.424"W	0.00	
12720.00†	91.045	269.805	9774.60	3102.30	-10.55	-3102.28	688188.02	605296.35	32°39'45.254"N	103°43'18.594"W	0.00	
12820.00†	91.045	269.805	9772.78	3202.28	-10.89	-3202.26	688088.04	605296.01	32°39'45.257"N	103°43'19.763"W	0.00	
12920.00†	91.045	269.805	9770.96	3302.27	-11.23	-3302.25	687988.06	605295.67	32°39'45.259"N	103°43'20.933"W	0.00	
13020.00†	91.045	269.805	9769.13	3402.25	-11.57	-3402.23	687888.08	605295.33	32°39'45.261"N	103°43'22.102"W	0.00	

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.3H SHL
Area	Lea County, NM	Well	No.3H
Field	(Norte) Sec 13, T19S, R32E	Wellbore	No.3H PWB
Facility	Norte 13 Fed Com No.3H		

WELLPATH DATA (148 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13120.00†	91.045	269.805	9767.31	3502.23	-11.91	-3502.21	687788.11	605294.99	32°39'45.264"N	103°43'23.272"W	0.00	
13220.00†	91.045	269.805	9765.49	3602.22	-12.25	-3602.20	687688.13	605294.65	32°39'45.266"N	103°43'24.441"W	0.00	
13320.00†	91.045	269.805	9763.66	3702.20	-12.59	-3702.18	687588.15	605294.31	32°39'45.268"N	103°43'25.611"W	0.00	
13420.00†	91.045	269.805	9761.84	3802.18	-12.93	-3802.16	687488.17	605293.97	32°39'45.271"N	103°43'26.780"W	0.00	
13520.00†	91.045	269.805	9760.02	3902.17	-13.27	-3902.14	687388.20	605293.63	32°39'45.273"N	103°43'27.950"W	0.00	
13620.00†	91.045	269.805	9758.19	4002.15	-13.61	-4002.13	687288.22	605293.29	32°39'45.275"N	103°43'29.119"W	0.00	
13720.00†	91.045	269.805	9756.37	4102.13	-13.95	-4102.11	687188.24	605292.95	32°39'45.277"N	103°43'30.289"W	0.00	
13820.00†	91.045	269.805	9754.55	4202.12	-14.29	-4202.09	687088.26	605292.61	32°39'45.280"N	103°43'31.458"W	0.00	
13920.00†	91.045	269.805	9752.72	4302.10	-14.63	-4302.08	686988.28	605292.27	32°39'45.282"N	103°43'32.628"W	0.00	
14020.00†	91.045	269.805	9750.90	4402.08	-14.97	-4402.06	686888.31	605291.93	32°39'45.284"N	103°43'33.797"W	0.00	
14120.00†	91.045	269.805	9749.08	4502.07	-15.31	-4502.04	686788.33	605291.59	32°39'45.287"N	103°43'34.967"W	0.00	
14220.00†	91.045	269.805	9747.25	4602.05	-15.65	-4602.02	686688.35	605291.25	32°39'45.289"N	103°43'36.136"W	0.00	
14233.95	91.045	269.805	9747.00†	4616.00	-15.70	-4615.98	686674.40	605291.20	32°39'45.289"N	103°43'36.300"W	0.00	No.3H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.3H PBHL	14233.95	9747.00	-15.70	-4615.98	686674.40	605291.20	32°39'45.289"N	103°43'36.300"W	point

SURVEY PROGRAM - Ref Wellbore: No.3H-PWB Ref Wellpath: Prelim_2				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	14233.95	NaviTrak (Standard)		No.3H PWB

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Norte "13" HE Fed #1H

1780' FNL & 330' FEL (SHL)

Sec 13-T19S-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 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.

Mewbourne Oil Company

BOP Schematic for 12 1/4" Hole

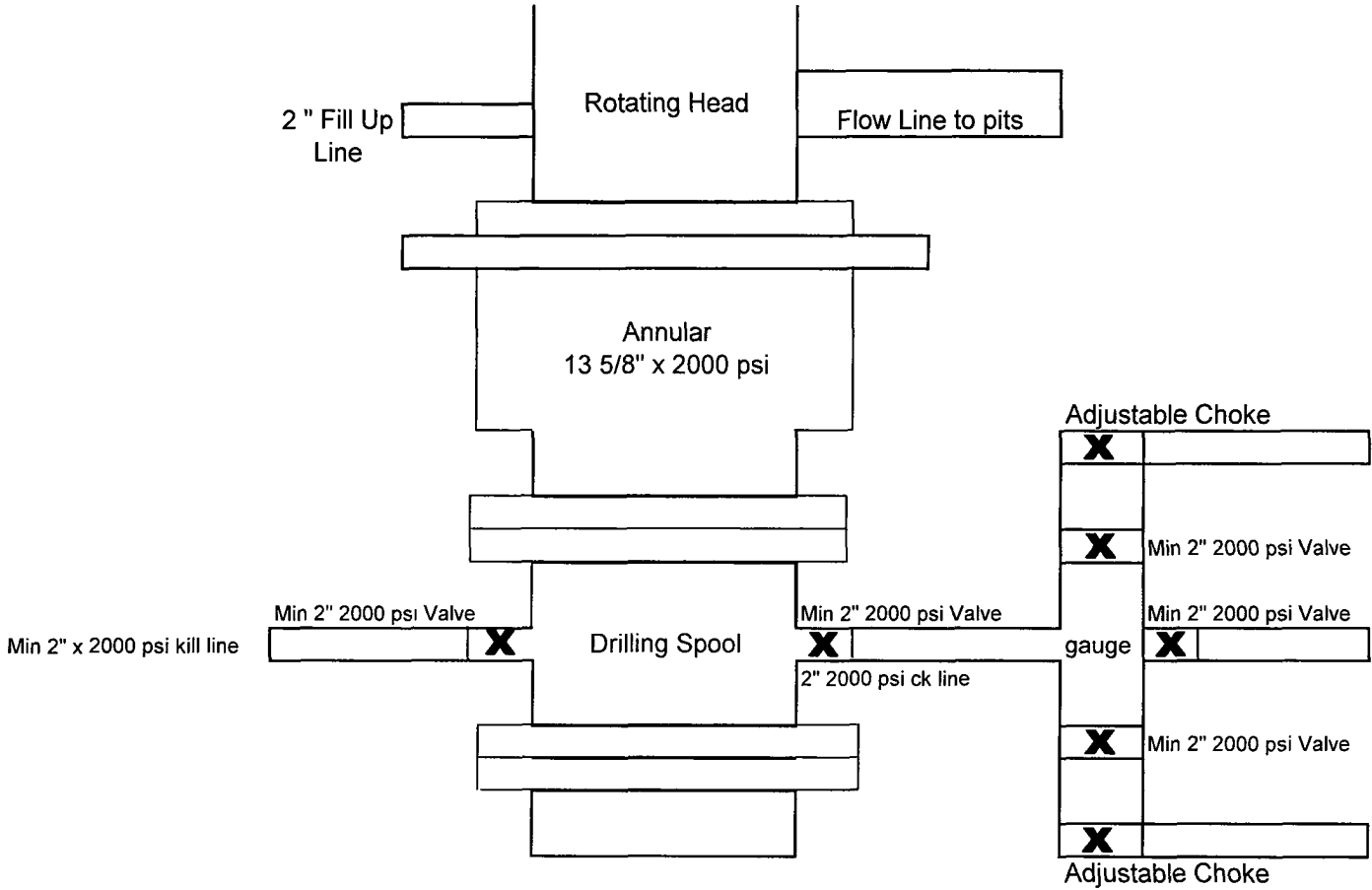


Exhibit #2

Norte "13" HE Fed #1H
1780' FNL & 330' FEL
Sec 13-T19S-R32E
Lea, County
New Mexico

Mewbourne Oil Company

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

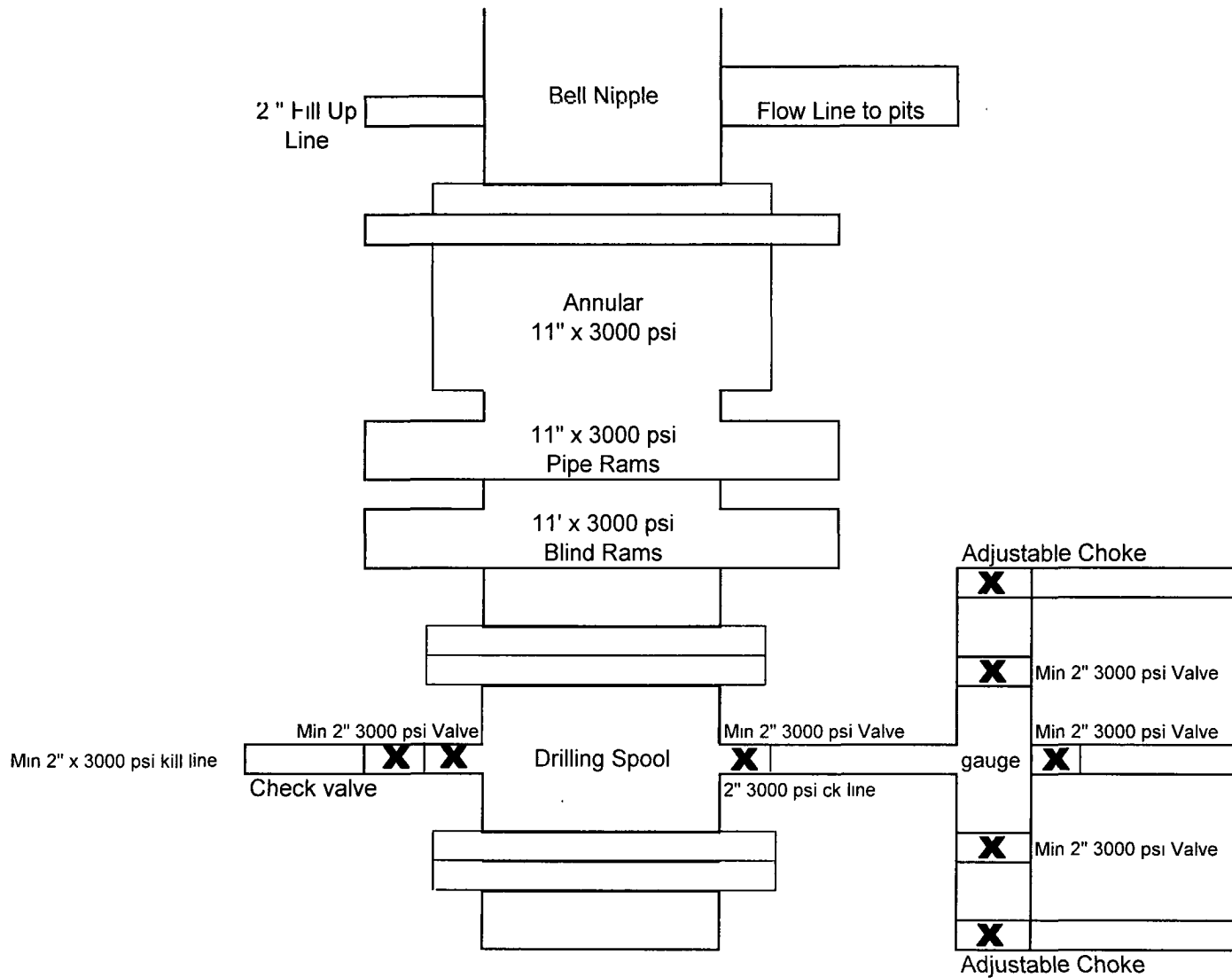
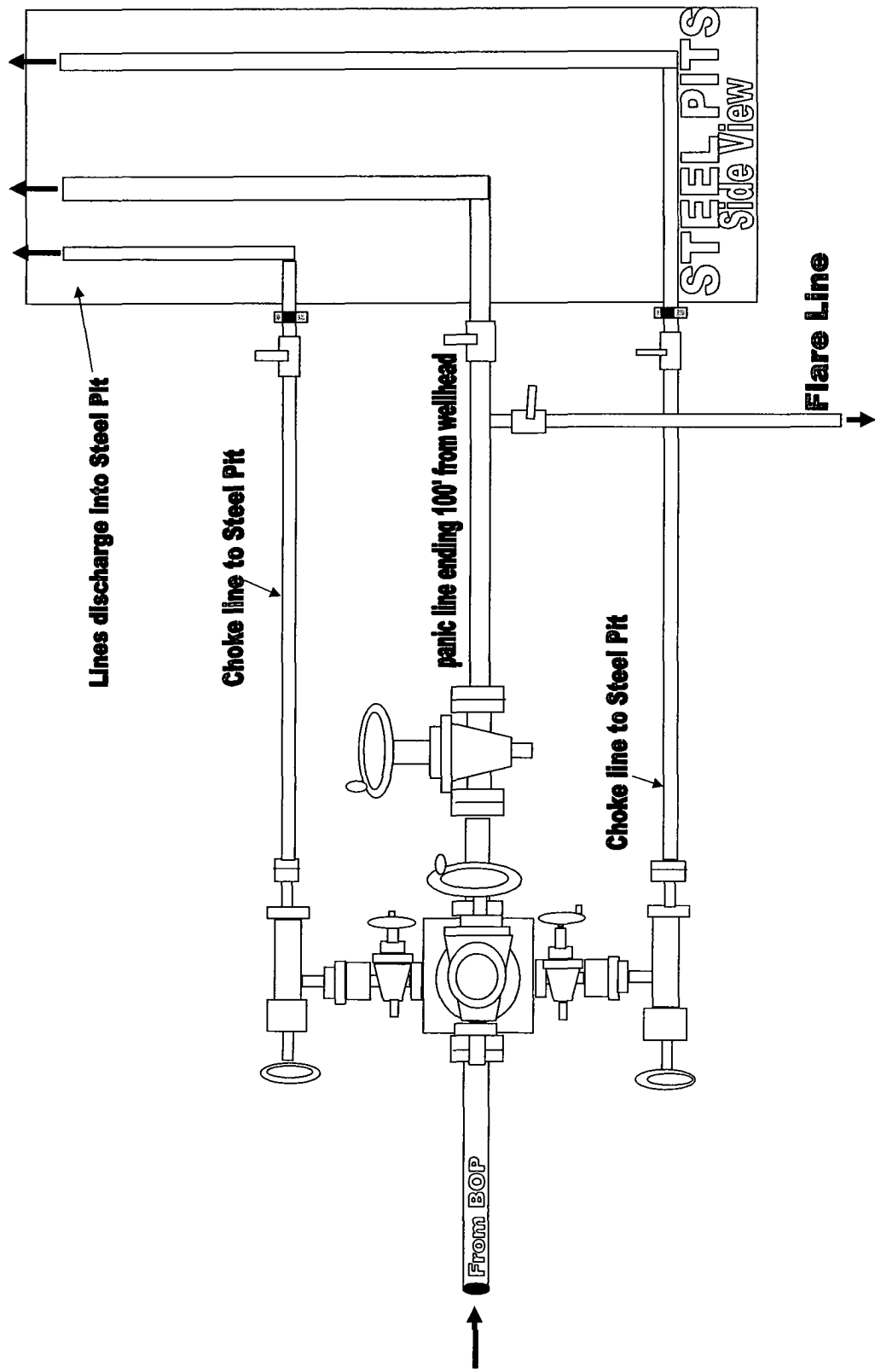


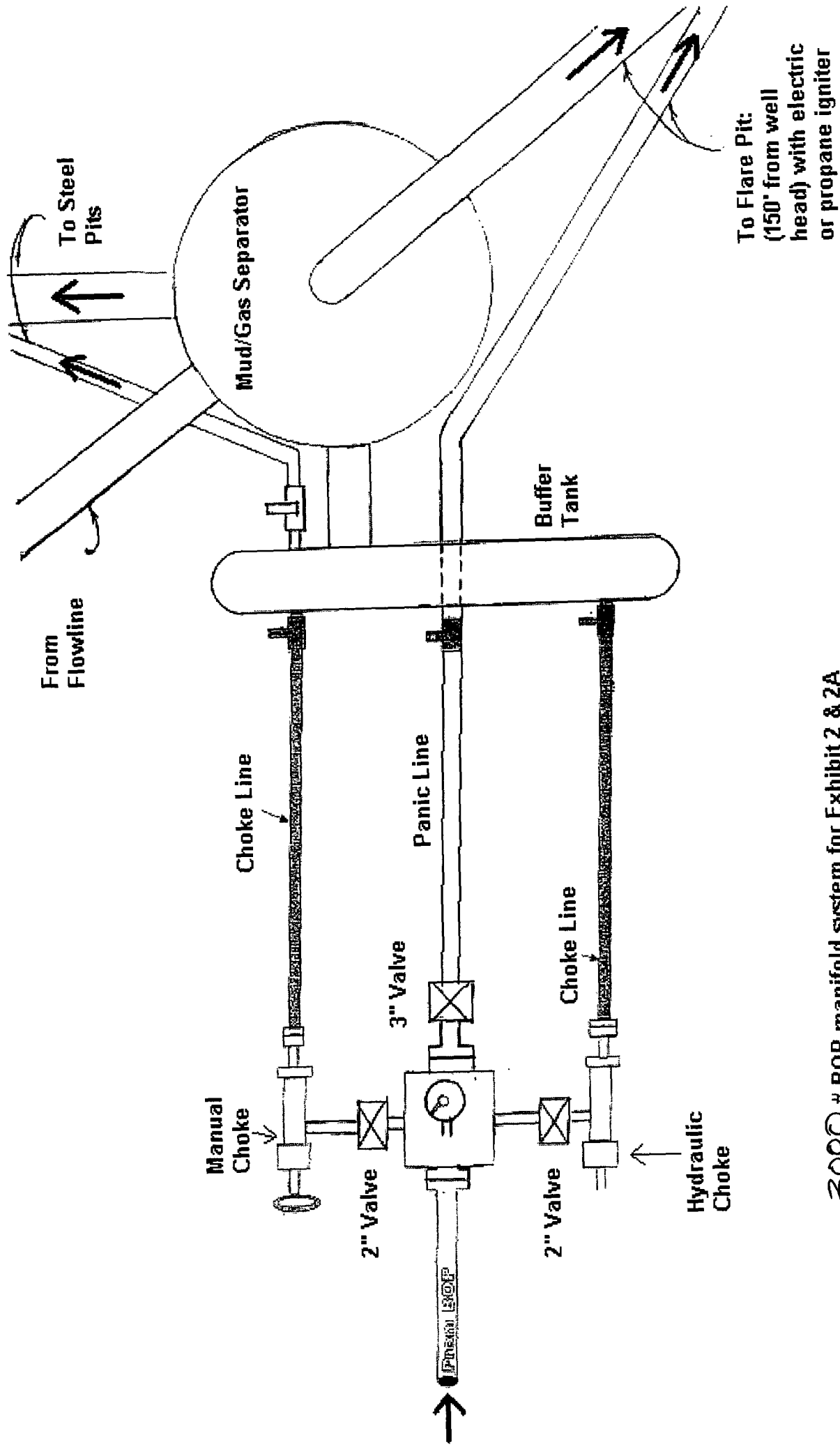
Exhibit #2

Norte "13" HE Fed #1H
1780' FNL & 330' FEL
Sec 13-T19S-R32E
Lea, County
New Mexico



3000# BOP manifold system for Exhibit 2 & 2A

Norte "13" HE Fed #1H

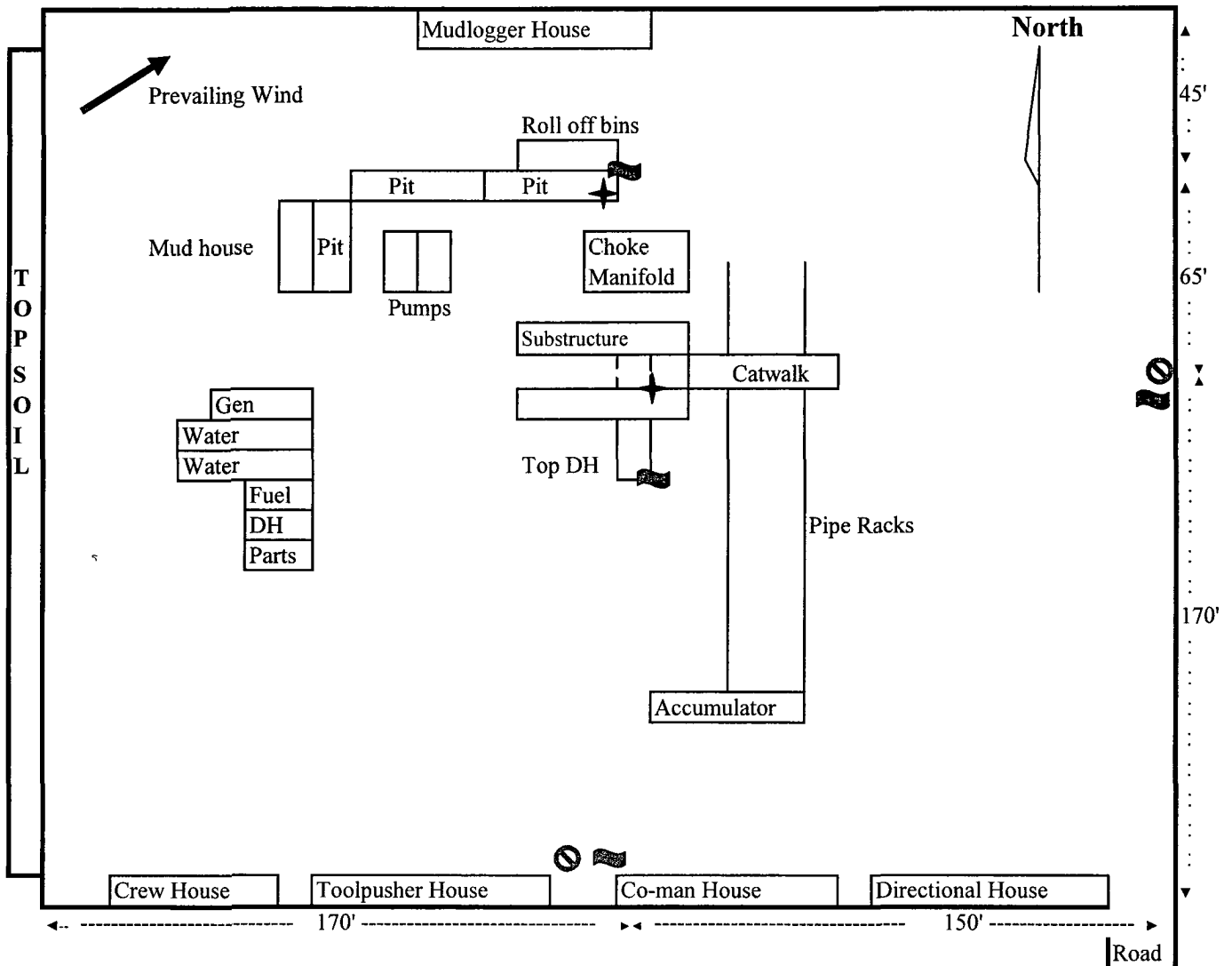


3000 # BOP manifold system for Exhibit 2 & 2A
(only if Mud/Gas Separator is needed)

Norte "13" HE Fed #114

Exhibit 5

Closed Loop Pad Dimensions 280' x 320'
and H2S Plan



Legend

- Wellbore Location
- Briefing Area w/ SCBA
- H2S Sensors
- Windsocks

Mewbourne Oil Company
Norte "13" HE Fed #1H
1780' FNL & 330' FEL
Sec 13-T19S-R32E
Lea County, NM