

HOBBS OCD
FEB 28 2014UNORTHODOX
LOCATION

OCD-Hobbs

ATS-13-1099

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

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

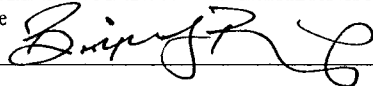
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. <40430> Excalibur 17 LI Fed Com #1H
2. Name of Operator Mewbourne Oil Company		9. API Well No. 30-025-41701
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) <14744> 575-393-5905	10. Field and Pool, or Exploratory Tonto Bone Spring (59475) ✓
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1700' FSL & 210' FWL, Sec. 17 T19S R33E At proposed prod. zone 1700' FSL & 330' FEL, Sec. 17 T19S R33E		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 17 T19S R33E
14. Distance in miles and direction from nearest town or post office* 33 miles West of Hobbs, NM		12. County or Parish Lea
15. Distance from proposed* 210' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		13. State NM
16. No. of acres in lease NM-95645-40 acres NM-77004-802.25 acres NM-97895-120 acres		17. Spacing Unit dedicated to this well 160 acres
18. Distance from proposed location* 180' - Walton Fed. #1 to nearest well, drilling, completed, applied for, on this lease, ft.		20. BLM/BIA Bond No. on file NM-1693 Nationwide, NMB-000919
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3635' GL		22. Approximate date work will start* 05/15/2013
		23. Estimated duration 60 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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) BRADLEY BISHOP	Date 4-17-13
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Approved by (Signature) /S/ STEPHEN J. CAFFEY	Name (Printed/Typed)	Date FEB 26 2014
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.

(Continued on page 2)

Capitan Controlled Water Basin (Continued on page 2)

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

MAR 05 2014 PM

Drilling Program
Mewbourne Oil Company
Excalibur 17 LI Fed Com #1H
1700' FSL & 210' FWL (SHL)
Sec 17-T19S-R33E
Lea County, New Mexico

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

Rustler	1360'
Top Salt	1520'
Base Salt	2640'
Yates	3140'
Seven Rivers	NP
Queen	NP
Top Capitan	3420'
Base Capitan	4210'
Grayburg	NP
San Andres	NP
Glorieta	NP
Yeso	NP
*Lamar	5980'
*Bone Springs	7650'
*1 st Bone Spring Sand	8900'
*2 nd Bone Spring Sand	9470'
3 rd Bone Spring Sand	Will Not Penetrate
Wolfcamp	Will Not Penetrate

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

Water	Fresh water is anticipated @ 150' & will be protected by setting surface casing at 1385' ^{1425'} 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:

See CoA

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 9 5/8" & 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. 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 both Annular BOPs 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 9428' & kick off to horizontal @ 9905' TVD. The well will be drilled to 14445' MD (9965' 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'-1000'	ST&C
17 1/2"	13 3/8" (new)	54.5#	J55	1000'-1385'	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-3000'	LT&C
12 1/4"	9 5/8" (new)	40#	J55	3000'-4000'	LT&C
12 1/4"	9 5/8" (new)	40#	N80	4000'-4400'	LT&C
8 3/4"	7" (new)	26#	P110	0'-9428' MD	LT&C
8 3/4"	7" (new)	26#	P110	9428'-10171' MD	BT&C
6 1/8"	4 1/2" (new)	13.5#	P110	9971'-14445' 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:

- Surface Casing: 850 sacks Class "C" (35:65:4) light cement w/ 2% CaCl₂ & LCM additives. Yield at 2.0 cuft/sk. 200 sacks Class "C" cement w/ 2% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/100% excess.
- Intermediate Casing: 730 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.0 cuft/sk. 200 sacks Class "C" cement w/2% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
- Production Casing: 340 sacks Class H light cement (35:65:4) with fluid loss, LCM, & salt additives. Yield at 2.12 cuft/sk. 400 sacks Class H cement containing fluid loss additives. Yield at 1.18 cuft/sk cmt calculated to tie 200' into 9 5/8" casing at 4200' w/25% excess.
- Production Liner: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

See COA

*Referring to above blends of light 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' - 1385'	FW spud mud	8.6-9.0	32-34	NA
1385' - 4400'	Brine water	10.0-10.2	28-30	NA
4400' - 9428' (KOP)	FW	8.5-8.7	28-30	15
9428' - TD	FW w/Polymer	8.5-8.7	32-35	15

**Visual mud monitoring system shall be in place to detect volume changes indicating loss or gain of circulation fluid volume. Sufficient mud materials will be kept on location at all times to combat abnormal conditions.

7. Evaluation Program:

Samples: 10' samples from surface casing to TD
Logging: GR & Gyro from KOP -100' (9328') to surface. GR from 9328' to TD.

See COA

8. Downhole Conditions

See COA

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 ($.43368 \times 9965' = 4322$ psi)

9. Anticipated Starting Date:

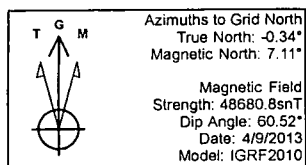
Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 40 days involved in drilling operations and an additional 10 days involved in completion operations on the project.



COMPANY: Mewbourne Oil Company
 WELL: Excalibur 17 LI Federal Com #1H
 COUNTY: LEA COUNTY, NM (NAD83)
 DATUM: North American Datum 1983
 RIG: PATTERSON #47
 GRID CORRECTION: 7.11° E



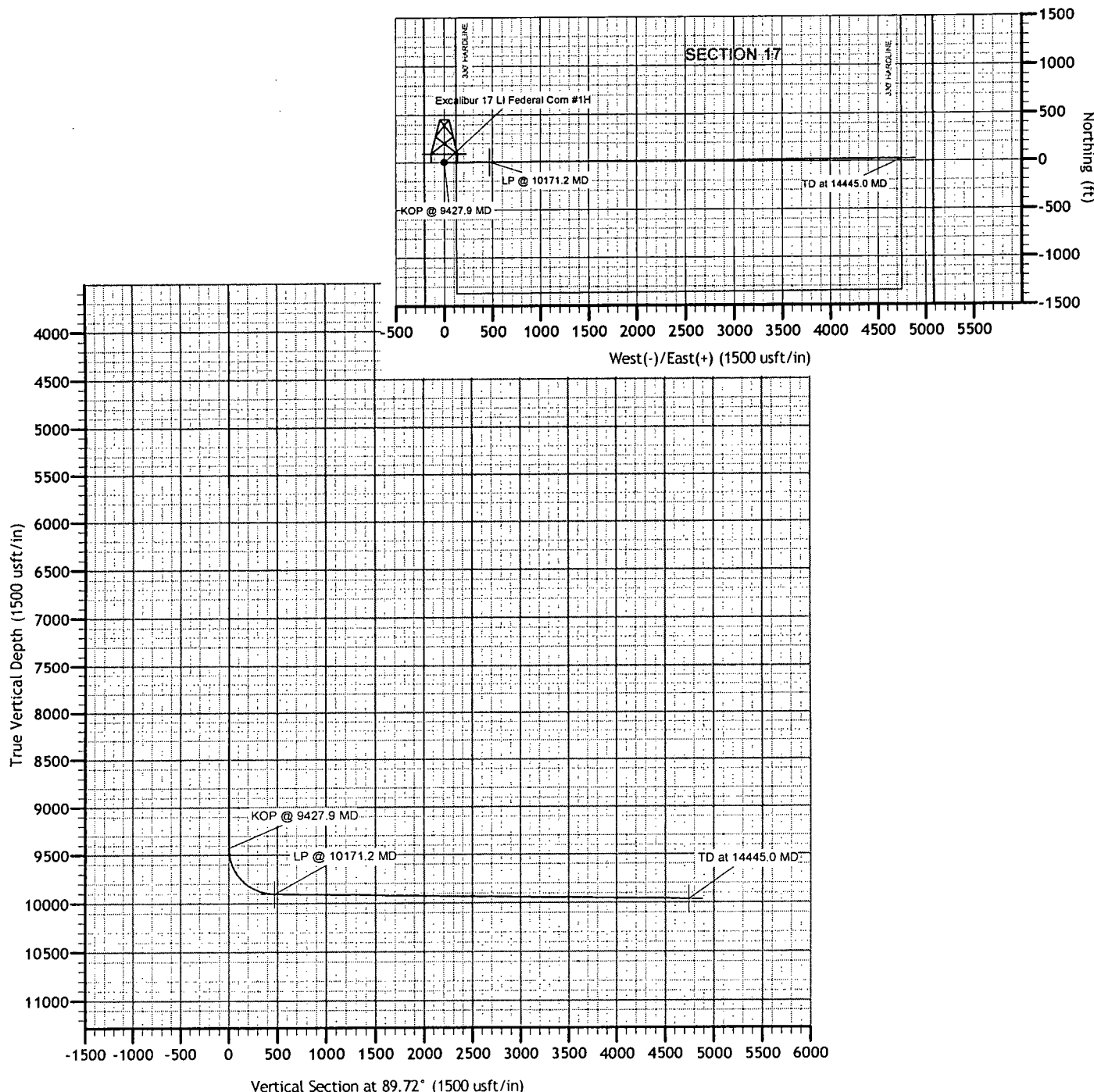
OFFICE: 936.582.7296 PLANNING: 214.784.3778



GEODEIC ZONE: New Mexico Eastern Zone					
WELL @ 3655.0usft (Original Well Elev)					
GROUND ELEVATION: 3635.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	603603.30	738359.60	32° 39' 27.790 N	103° 41' 35.330 W

CREATED BY: BRANDON ESTES
 DATE: 14:57, April 11 2013
 PLAN: Proposal 1

CRITICAL POINTS							
TVD	MD	Inc	Azi	+N/-S	+E/-W	VsectDeparture	Annotation
9427.9	9427.9	0.00	0.00	0.0	0.0	0.0	KOP @ 9427.9 MD
9905.3	10171.2	89.20	89.72	2.3	470.8	470.8	LP @ 10171.2 MD
9965.0	14445.0	89.20	89.72	22.8	4744.1	4744.2	TD at 14445.0 MD





Mewbourne Oil Company

LEA COUNTY, NM (NAD83)

SECTION 17

Excalibur 17 LI Federal Com #1H

Wellbore #1

Plan: Proposal 1

Standard Planning Report

11 April, 2013





Stryker Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: Excalibur 17 LI Federal Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3655.0usft (Original Well Elev)
Project:	LEA COUNTY NM (NAD83)	MD Reference:	WELL @ 3655.0usft (Original Well Elev)
Site:	SECTION 17	North Reference:	Grid
Well:	Excalibur 17 LI Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Proposal 1		

Project:	LEA COUNTY NM (NAD83) NM-East		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	SECTION 17		
Site Position:		Northing:	602,402.30 usft
From:	Map	Easting:	738,174.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 39' 15.917 N
		Longitude:	103° 41' 37.577 W
		Grid Convergence:	0.35 °

Well:	Excalibur 17 LI Federal Com #1H		
Well Position	+N-S	1,201.0 usft	Northing:
	+E-W	184.9 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,635.0 usft
			Latitude:
			32° 39' 27.790 N
			Longitude:
			103° 41' 35.330 W

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	4/9/2013	7.45
			Dip Angle
			(°)
			60.52
			Field Strength
			(nT)
			48,681

Design:	Proposal 1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			89.72

Plan Sections									
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00
9,427.9	0.00	0.00	9,427.9	0.0	0.0	0.00	0.00	0.00	0.00
10,171.2	89.20	89.72	9,905.3	2.3	470.8	12.00	12.00	0.00	89.72
14,445.0	89.20	89.72	9,965.0	22.8	4,744.1	0.00	0.00	0.00	0.00 PBHL Excalibur 17 LI



Stryker Directional Planning Report



Database:	EDM:5000.1:Single User:Db	Local Co-ordinate Reference:	Well: Excalibur 17: LI: Federal Com: #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3655.0usft (Original Well Elev)
Project:	LEA COUNTY NM (NAD83)	MD Reference:	WELL @ 3655.0usft (Original Well Elev)
Site:	SECTION 17	North Reference:	Grid
Well:	Excalibur 17: LI: Federal Com: #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Proposal 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	
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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	
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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	



Stryker Directional Planning Report



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Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3655.0usft (Original Well Elev)
Project:	LEA COUNTY, NM (NAD83)	MD Reference:	WELL @ 3655.0usft (Original Well Elev)
Site:	SECTION 17	North Reference:	Grid
Well:	Excalibur 17-LI Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Proposal 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
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,427.9	0.00	0.00	9,427.9	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 9427.9 MD									
9,500.0	8.65	89.72	9,499.7	0.0	5.4	5.4	12.00	12.00	0.00
9,600.0	20.65	89.72	9,596.3	0.1	30.7	30.7	12.00	12.00	0.00
9,700.0	32.65	89.72	9,685.5	0.4	75.5	75.5	12.00	12.00	0.00
9,800.0	44.65	89.72	9,763.5	0.7	137.8	137.8	12.00	12.00	0.00
9,900.0	56.65	89.72	9,826.8	1.0	215.0	215.0	12.00	12.00	0.00
10,000.0	68.65	89.72	9,872.6	1.5	303.6	303.6	12.00	12.00	0.00
10,100.0	80.65	89.72	9,899.0	1.9	399.9	399.9	12.00	12.00	0.00
10,170.4	89.10	89.72	9,905.3	2.3	470.0	470.0	12.00	12.00	0.00
LP Excalibur 17-LI Federal Com #1H									
10,171.2	89.20	89.72	9,905.3	2.3	470.8	470.8	12.00	12.00	0.00



Stryker Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Excalibur 17 LI Federal Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3655.0usft (Original Well Elev)
Project:	LEA COUNTY NM (NAD83)	MD Reference:	WELL @ 3655.0usft (Original Well Elev)
Site:	SECTION 17	North Reference:	Grid
Well:	Excalibur 17 LI Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Proposal 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)
LP @ 10171.2 MD									
10,200.0	89.20	89.72	9,905.7	2.4	499.5	499.6	0.00	0.00	0.00
10,300.0	89.20	89.72	9,907.1	2.9	599.5	599.5	0.00	0.00	0.00
10,400.0	89.20	89.72	9,908.5	3.4	699.5	699.5	0.00	0.00	0.00
10,500.0	89.20	89.72	9,909.9	3.8	799.5	799.5	0.00	0.00	0.00
10,600.0	89.20	89.72	9,911.3	4.3	899.5	899.5	0.00	0.00	0.00
10,700.0	89.20	89.72	9,912.7	4.8	999.5	999.5	0.00	0.00	0.00
10,800.0	89.20	89.72	9,914.1	5.3	1,099.5	1,099.5	0.00	0.00	0.00
10,900.0	89.20	89.72	9,915.5	5.8	1,199.5	1,199.5	0.00	0.00	0.00
11,000.0	89.20	89.72	9,916.9	6.2	1,299.5	1,299.5	0.00	0.00	0.00
11,100.0	89.20	89.72	9,918.3	6.7	1,399.4	1,399.5	0.00	0.00	0.00
11,200.0	89.20	89.72	9,919.7	7.2	1,499.4	1,499.5	0.00	0.00	0.00
11,300.0	89.20	89.72	9,921.1	7.7	1,599.4	1,599.4	0.00	0.00	0.00
11,400.0	89.20	89.72	9,922.5	8.2	1,699.4	1,699.4	0.00	0.00	0.00
11,500.0	89.20	89.72	9,923.9	8.6	1,799.4	1,799.4	0.00	0.00	0.00
11,600.0	89.20	89.72	9,925.3	9.1	1,899.4	1,899.4	0.00	0.00	0.00
11,700.0	89.20	89.72	9,926.7	9.6	1,999.4	1,999.4	0.00	0.00	0.00
11,800.0	89.20	89.72	9,928.1	10.1	2,099.4	2,099.4	0.00	0.00	0.00
11,900.0	89.20	89.72	9,929.5	10.6	2,199.4	2,199.4	0.00	0.00	0.00
12,000.0	89.20	89.72	9,930.9	11.1	2,299.3	2,299.4	0.00	0.00	0.00
12,100.0	89.20	89.72	9,932.3	11.5	2,399.3	2,399.4	0.00	0.00	0.00
12,200.0	89.20	89.72	9,933.7	12.0	2,499.3	2,499.4	0.00	0.00	0.00
12,300.0	89.20	89.72	9,935.1	12.5	2,599.3	2,599.3	0.00	0.00	0.00
12,400.0	89.20	89.72	9,936.4	13.0	2,699.3	2,699.3	0.00	0.00	0.00
12,500.0	89.20	89.72	9,937.8	13.5	2,799.3	2,799.3	0.00	0.00	0.00
12,600.0	89.20	89.72	9,939.2	13.9	2,899.3	2,899.3	0.00	0.00	0.00
12,700.0	89.20	89.72	9,940.6	14.4	2,999.3	2,999.3	0.00	0.00	0.00
12,800.0	89.20	89.72	9,942.0	14.9	3,099.3	3,099.3	0.00	0.00	0.00
12,900.0	89.20	89.72	9,943.4	15.4	3,199.3	3,199.3	0.00	0.00	0.00
13,000.0	89.20	89.72	9,944.8	15.9	3,299.2	3,299.3	0.00	0.00	0.00
13,100.0	89.20	89.72	9,946.2	16.3	3,399.2	3,399.3	0.00	0.00	0.00
13,200.0	89.20	89.72	9,947.6	16.8	3,499.2	3,499.3	0.00	0.00	0.00
13,300.0	89.20	89.72	9,949.0	17.3	3,599.2	3,599.2	0.00	0.00	0.00
13,400.0	89.20	89.72	9,950.4	17.8	3,699.2	3,699.2	0.00	0.00	0.00
13,500.0	89.20	89.72	9,951.8	18.3	3,799.2	3,799.2	0.00	0.00	0.00
13,600.0	89.20	89.72	9,953.2	18.7	3,899.2	3,899.2	0.00	0.00	0.00
13,700.0	89.20	89.72	9,954.6	19.2	3,999.2	3,999.2	0.00	0.00	0.00
13,800.0	89.20	89.72	9,956.0	19.7	4,099.2	4,099.2	0.00	0.00	0.00
13,900.0	89.20	89.72	9,957.4	20.2	4,199.1	4,199.2	0.00	0.00	0.00
14,000.0	89.20	89.72	9,958.8	20.7	4,299.1	4,299.2	0.00	0.00	0.00
14,100.0	89.20	89.72	9,960.2	21.1	4,399.1	4,399.2	0.00	0.00	0.00
14,200.0	89.20	89.72	9,961.6	21.6	4,499.1	4,499.2	0.00	0.00	0.00
14,300.0	89.20	89.72	9,963.0	22.1	4,599.1	4,599.2	0.00	0.00	0.00
14,400.0	89.20	89.72	9,964.4	22.6	4,699.1	4,699.1	0.00	0.00	0.00
14,445.0	89.20	89.72	9,965.0	22.8	4,744.1	4,744.2	0.00	0.00	0.00
TD at 14445.0 MD - PBHL Excalibur 17 LI Federal Com #1H									



Stryker Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Excalibur 17 LI Federal Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3655.0usft (Original Well Elev)
Project:	LEA COUNTY, NM (NAD83)	MD Reference:	WELL @ 3655.0usft (Original Well Elev)
Site:	SECTION 17	North Reference:	Grid
Well:	Excalibur 17 LI Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Proposal 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
LP Excalibur 17 LI Federal	0.00	0.00	9,905.0	2.3	470.0	603,605.60	738,829.59	32° 39' 27.785 N	103° 41' 29.832 W
- plan misses target center by 0.3usft at 10170.4usft MD (9905.3 TVD, 2.3 N, 470.0 E)									
- Point									
PBHL Excalibur 17 LI Fe	0.00	0.00	9,965.0	22.8	4,744.1	603,626.10	743,103.70	32° 39' 27.729 N	103° 40' 39.837 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
9,427.9	9,427.9	0.0	0.0	KOP @ 9427.9 MD
10,171.2	9,905.3	2.3	470.8	LP @ 10171.2 MD
14,445.0	9,965.0	22.8	4,744.1	TD at 14445.0 MD

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Excalibur 17 LI Fed Com #1H

1700' FSL & 210' FWL (SHL)

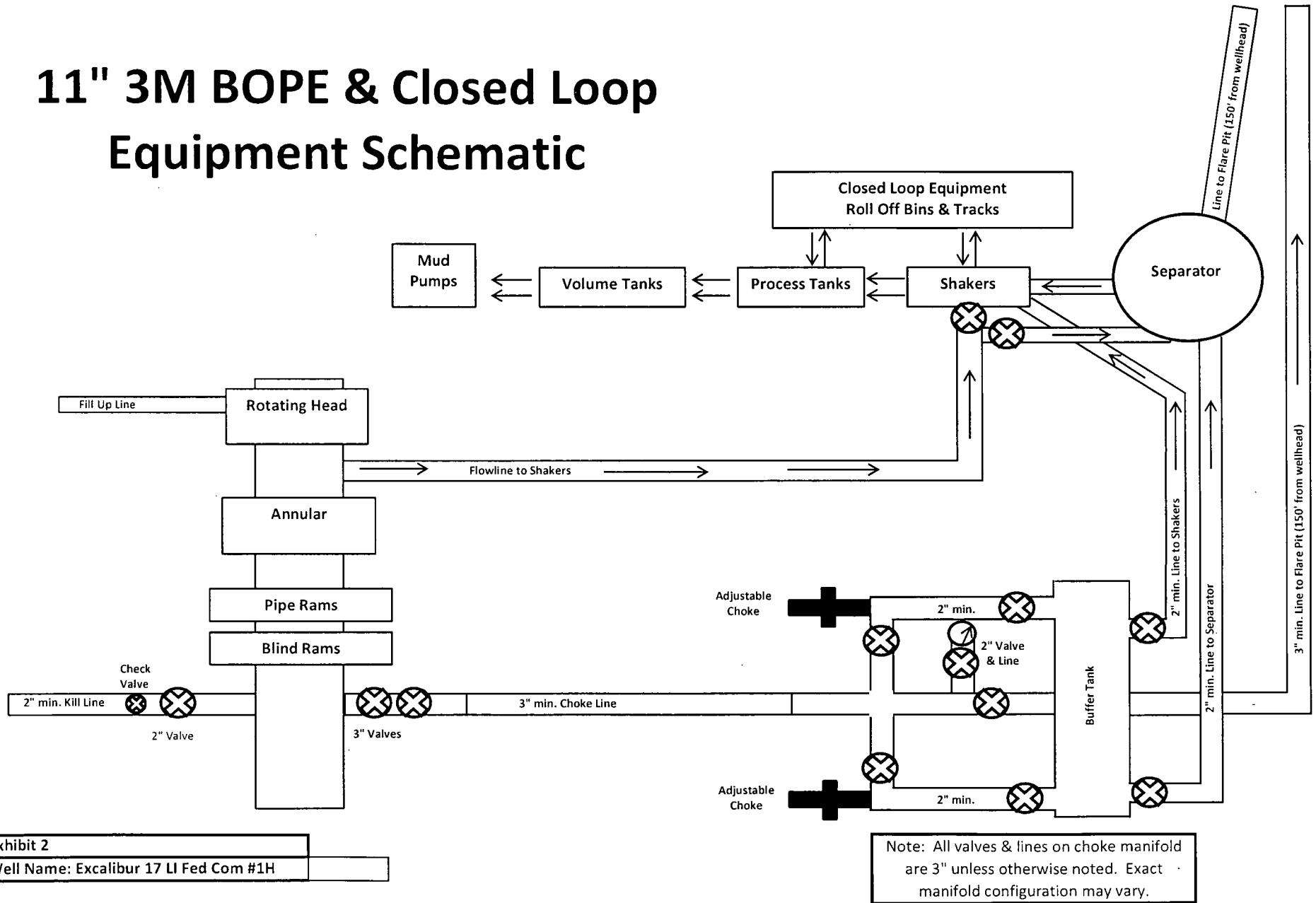
Sec 17-T19S-R33E

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.

11" 3M BOPE & Closed Loop Equipment Schematic



13 5/8" 2M BOPE & Closed Loop Equipment Schematic

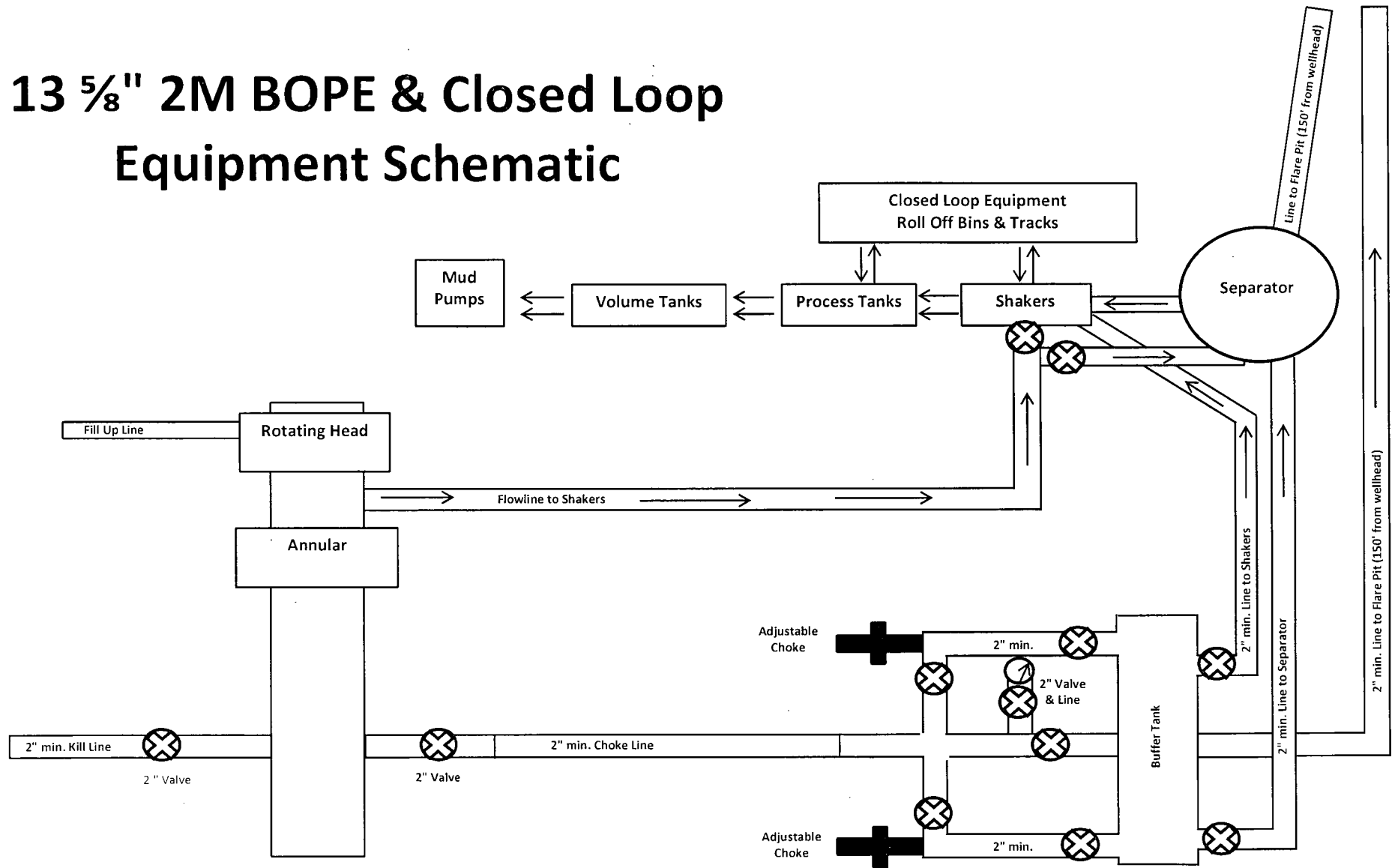


Exhibit 2A
Well Name: Excalibur 17 LI Fed Com #1H

H2S Diagram
Closed Loop Pad Dimensions 260' x 320'

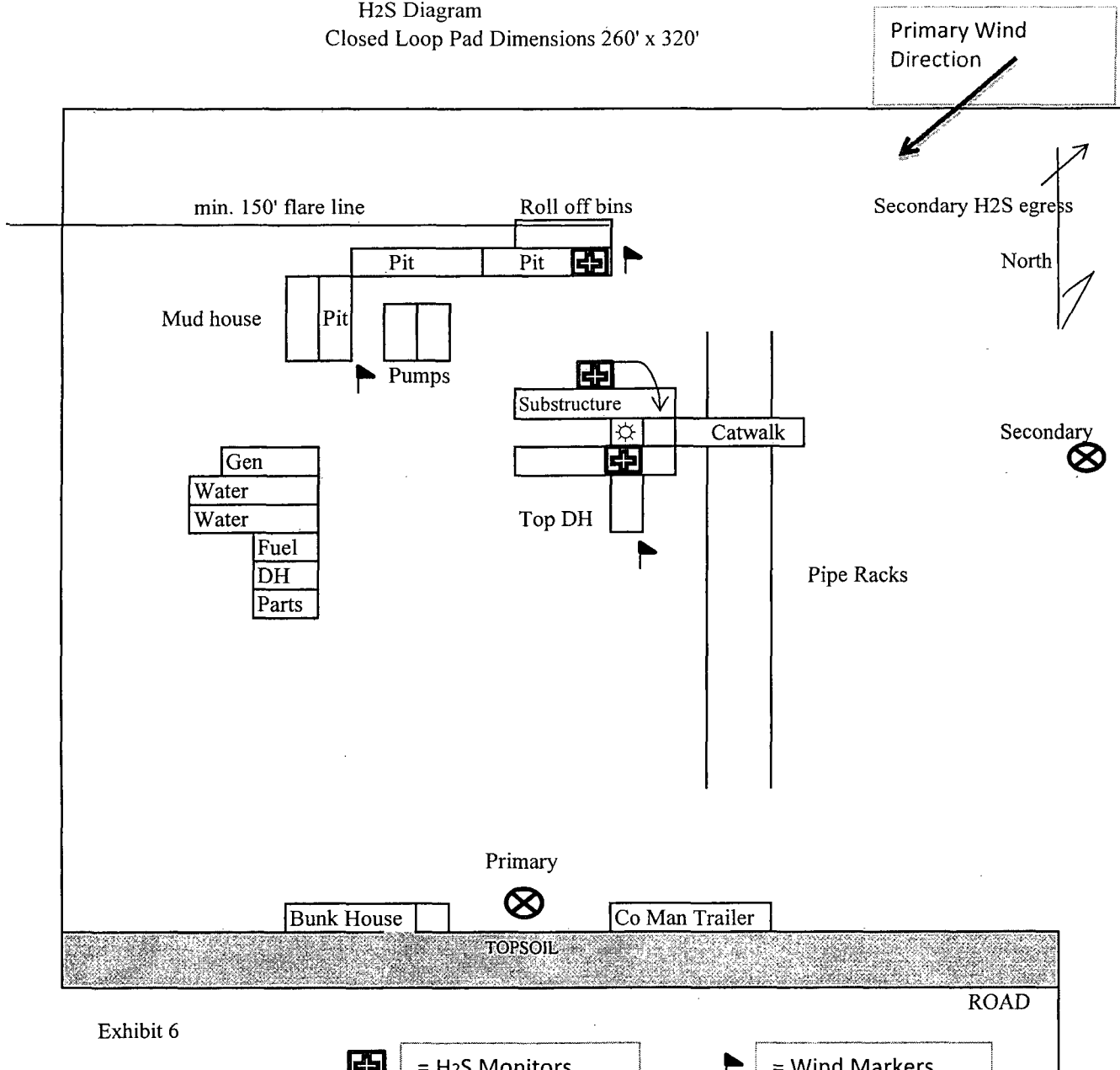


Exhibit 6

Mewbourne Oil Company
Excalibur 17 LI Fed Com #1H
1700' FSL & 210' FWL
Sec. 17 T19S R33E
Lea County, NM



= H2S Monitors



= Wind Markers



= Safety Stations



= Warning Signs