15-4160

OCD Hobbs

Form 3160-3
(August 2007)

HOBBS OCD
OCT 30 2015
RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM128929, NM 120910

6. If Indian, Allotee or Tribe Name
(H)

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
NMNM-134782 (315632)

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

8. Lease Name and Well No.
Paduca 7/6 A3ED Fed Com #2H

2. Name of Operator Mewbourne Oil Company (14744)

9. API Well No.
30-025-42910

3a. Address
PO Box 5270
Hobbs, NM 88241

3b. Phone No. *(include area code)*
575-393-5905

10. Field and Pool, or Exploratory (97838)
Jennings Upper Bone Spring Shale

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface 2455' FNL & 330' FWL Sec. 7, T26S, R32E (E2)
At proposed prod. zone 330' FNL & 330' FWL Sec. 6, T26S, R32E (D)

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 7, T26S, R32E

14. Distance in miles and direction from nearest town or post office*
30 miles west of Jal, NM

12. County or Parish
Lea

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
660' MOC Paduca 7/6 A2ED Fed Com #1H

16. No. of acres in lease
NMNM128929-760.71
NM 120910 -80.0

17. Spacing Unit dedicated to this well
240

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

19. Proposed Depth
16,392.1'-MD
9,177.0'-TVD

20. BLM/BIA Bond No. on file
NM-1693 nationwide, NMB-000919

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3243'

22. Approximate date work will start*
04/01/2015

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.
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)* BARRY BISHOP
Date 3-3-15

Title

Approved by *(Signature)* /S/ STEPHEN J. CAFFEY
Name *(Printed/Typed)*
Date OCT 20 2015

Title FOR FIELD MANAGER
Office BLM-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)

*(Instructions on page 2)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

KZ 10/30/15

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Carlsbad Controlled Water Basin

Witness Surface & Intermediate Casing

Mewbourne Oil Co, Paduca 7/6 A3ED Fed Com #2H
Sec 7, T26S, R32E
SL: 2455' FNL & 330' FWL, Sec 7
BHL: 330' FNL & 330' FWL, Sec 6

1. Geologic Formations

TVD of target	9177'	Pilot hole depth	NA
MD at TD:	16392'	Deepest expected fresh water:	280'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1000	Water	
Top of Salt	1550	Salt	
Base of Salt/Castile	4110	Barren	
Delaware (Lamar)	4330	Oil/Gas	
Manzanita Marker	5600		
Bone Spring	8320	Target Zone	
Wolfcamp		Will Not Penetrate	
Canyon			
Strawn			
Atoka			
Morrow			
Barnett Shale			
Woodford Shale			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Co, Paduca 7/6 A3ED Fed Com #2H
Sec 7, T26S, R32E
SL: 2455' FNL & 330' FWL, Sec 7
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2. Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0'	~~1025'~~ 1210'	13.375"	48	H40	STC	1.39	3.25	6.54
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.92
12.25"	3453'	4230'	9.625"	40	J55	LTC	1.17	1.80	16.73
8.75"	0'	3333'	5.5"	17	P110	BTC	4.32	4.32	1.96
8.75"	3333'	8604'	5.5"	17	P110	LTC	1.67	2.38	2.00
8.75"	8604'	9504'	5.5"	17	P110	BTC	1.57	2.23	4.12
8.75"	9504'	16392'	5.5"	17	P110	LTC	1.57	2.23	3.79
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

See COA

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Co, Paduca 7/6 A3ED Fed Com #2H
Sec 7, T26S, R32E
SL: 2455' FNL & 330' FWL, Sec 7
BHL: 330' FNL & 330' FWL, Sec 6

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf	544	12.5	2.12	11	10	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 5% Sodium Chloride +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Class C + 0.005pps Static Free + 1% CaCl2 + 0.25 pps CelloFlake + 0.005 gps FP-6L
Inter.	655	12.5	2.12	11	10	Lead: Class C (35:65:4) + 5% Sodium Chloride +5#/sk LCM +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Prod.	1315	11.2	2.97	18	16	Class C (60:40:0)+4% MPA5+1.2% BA10A+10#/sk BA90+5%A10+0.65%ASA301+1.5%SMS+1.2%R21

~~DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe.~~ Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4030'	25%

Mewbourne Oil Co, Paduca 7/6 A3ED Fed Com #2H
Sec 7, T26S, R32E
SL: 2455' FNL & 330' FWL, Sec 7
BHL: 330' FNL & 330' FWL, Sec 6

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	2M	Annular	X	1250#
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	11"	3M	Annular	X	2500#
			Blind Ram	X	
			Pipe Ram	X	
			Double Ram		3000#
			Other *		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other *		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

N	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	Y /N Are anchors required by manufacturer?
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • Provide description here See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	~~1025~~ 1210'	FW Gel	8.6-8.8	28-34	N/C
~~1025~~	4230	Saturated Brine	10.0-10.2	28-34	N/C
4230	8604	Cut Brine	8.5-9.3	28-34	N/C
8604	16392	FW/Polymer	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (8604) to surface. Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	Gamma	From KOP(8604) to TD
	Density	
	CBL	
	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3946 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
	H2S is present
X	H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe.
Will be pre-setting casing? If yes, describe.

Attachments
___ Directional Plan
___ Other, describe

Mewbourne Oil Company

Lea County, New Mexico
Paduca 7/6 A3ED Fed Com #2H
Sec 7, T26S, R32E
SL: 2455' FNL & 330' FWL, Sec 7
BHL: 330' FNL & 330' FWL, Sec 6

Plan: Design #1

Standard Planning Report

02 March, 2015

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Paduca 7/6 A3ED Fed Com #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3417.0usft (Original Well Elev)
Project:	Lea County, New Mexico	**MD Reference:**	WELL @ 3417.0usft (Original Well Elev)
Site:	Paduca 7/6 A3ED Fed Com #2H	**North Reference:**	Grid
Well:	Sec 7, T26S, R32E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 6		
Design:	Design #1		

Project Lea County, New Mexico

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 Paduca 7/6 A3ED Fed Com #2H

Site Position:		**Northing:**	385,363.50 usft	**Latitude:**	32° 3' 28.810 N
From:	Map	**Easting:**	689,537.70 usft	**Longitude:**	103° 43' 17.510 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.32 °

Well Sec 7, T26S, R32E

Well Position	**+N/-S**	0.0 usft	**Northing:**	385,363.50 usft	**Latitude:**	32° 3' 28.810 N
	+E/-W	0.0 usft	**Easting:**	689,537.70 usft	**Longitude:**	103° 43' 17.510 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,417.0 usft	**Ground Level:**	3,397.0 usft

Wellbore BHL: 330' FNL & 330' FWL, Sec 6

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/2/2015	7.19	59.91	48,129

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.69

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	
8,604.0	0.00	0.00	8,604.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,504.1	90.00	359.69	9,177.0	573.0	-3.1	10.00	10.00	0.00	-0.31	
16,392.1	90.00	359.69	9,177.0	7,460.9	-40.2	0.00	0.00	0.00	0.00	BHL: 330 FNL & 330 I

Database:	Hobbs	Local Co-ordinate Reference:	Site Paduca 7/6 A3ED Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3417.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3417.0usft (Original Well Elev)
Site:	Paduca 7/6 A3ED Fed Com #2H	North Reference:	Grid
Well:	Sec 7, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 6		
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
SL: 2455 FNL & 330 FWL, Sec 7									
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

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Well:	Sec 7, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 6		
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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
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
8,604.0	0.00	0.00	8,604.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 8604									
8,700.0	9.60	359.69	8,699.6	8.0	0.0	8.0	10.00	10.00	0.00
8,800.0	19.60	359.69	8,796.2	33.2	-0.2	33.2	10.00	10.00	0.00
8,900.0	29.60	359.69	8,887.0	74.8	-0.4	74.8	10.00	10.00	0.00
9,000.0	39.60	359.69	8,969.2	131.5	-0.7	131.5	10.00	10.00	0.00
9,020.8	41.67	359.69	8,985.0	145.0	-0.8	145.0	10.00	10.00	0.00
First Take Point: 2310 FNL & 330 FWL, Sec 7									
9,100.0	49.60	359.69	9,040.3	201.6	-1.1	201.6	10.00	10.00	0.00
9,200.0	59.60	359.69	9,098.2	283.0	-1.5	283.0	10.00	10.00	0.00
9,300.0	69.59	359.69	9,141.0	373.2	-2.0	373.2	10.00	10.00	0.00
9,400.0	79.59	359.69	9,167.6	469.5	-2.5	469.5	10.00	10.00	0.00
9,500.0	89.59	359.69	9,177.0	568.9	-3.1	568.9	10.00	10.00	0.00
9,504.1	90.00	359.69	9,177.0	573.0	-3.1	573.0	9.98	9.98	0.00
LP: 1882 FNL & 330 FWL, Sec 7									
9,600.0	90.00	359.69	9,177.0	668.9	-3.6	668.9	0.00	0.00	0.00
9,700.0	90.00	359.69	9,177.0	768.9	-4.1	768.9	0.00	0.00	0.00
9,800.0	90.00	359.69	9,177.0	868.9	-4.7	868.9	0.00	0.00	0.00
9,900.0	90.00	359.69	9,177.0	968.9	-5.2	968.9	0.00	0.00	0.00

Database:	Hobbs	Local Co-ordinate Reference:	Site Paduca 7/6 A3ED Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3417.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3417.0usft (Original Well Elev)
Site:	Paduca 7/6 A3ED Fed Com #2H	North Reference:	Grid
Well:	Sec 7, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 6		
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)
10,000.0	90.00	359.69	9,177.0	1,068.9	-5.8	1,068.9	0.00	0.00	0.00
10,100.0	90.00	359.69	9,177.0	1,168.9	-6.3	1,168.9	0.00	0.00	0.00
10,200.0	90.00	359.69	9,177.0	1,268.9	-6.8	1,268.9	0.00	0.00	0.00
10,300.0	90.00	359.69	9,177.0	1,368.9	-7.4	1,368.9	0.00	0.00	0.00
10,400.0	90.00	359.69	9,177.0	1,468.9	-7.9	1,468.9	0.00	0.00	0.00
10,500.0	90.00	359.69	9,177.0	1,568.9	-8.5	1,568.9	0.00	0.00	0.00
10,600.0	90.00	359.69	9,177.0	1,668.9	-9.0	1,668.9	0.00	0.00	0.00
10,700.0	90.00	359.69	9,177.0	1,768.9	-9.5	1,768.9	0.00	0.00	0.00
10,800.0	90.00	359.69	9,177.0	1,868.9	-10.1	1,868.9	0.00	0.00	0.00
10,900.0	90.00	359.69	9,177.0	1,968.9	-10.6	1,968.9	0.00	0.00	0.00
11,000.0	90.00	359.69	9,177.0	2,068.9	-11.1	2,068.9	0.00	0.00	0.00
11,100.0	90.00	359.69	9,177.0	2,168.9	-11.7	2,168.9	0.00	0.00	0.00
11,200.0	90.00	359.69	9,177.0	2,268.9	-12.2	2,268.9	0.00	0.00	0.00
11,300.0	90.00	359.69	9,177.0	2,368.9	-12.8	2,368.9	0.00	0.00	0.00
11,400.0	90.00	359.69	9,177.0	2,468.9	-13.3	2,468.9	0.00	0.00	0.00
11,500.0	90.00	359.69	9,177.0	2,568.9	-13.8	2,568.9	0.00	0.00	0.00
11,600.0	90.00	359.69	9,177.0	2,668.9	-14.4	2,668.9	0.00	0.00	0.00
11,700.0	90.00	359.69	9,177.0	2,768.9	-14.9	2,768.9	0.00	0.00	0.00
11,800.0	90.00	359.69	9,177.0	2,868.9	-15.5	2,868.9	0.00	0.00	0.00
11,900.0	90.00	359.69	9,177.0	2,968.9	-16.0	2,968.9	0.00	0.00	0.00
12,000.0	90.00	359.69	9,177.0	3,068.9	-16.5	3,068.9	0.00	0.00	0.00
12,100.0	90.00	359.69	9,177.0	3,168.9	-17.1	3,168.9	0.00	0.00	0.00
12,200.0	90.00	359.69	9,177.0	3,268.9	-17.6	3,268.9	0.00	0.00	0.00
12,300.0	90.00	359.69	9,177.0	3,368.9	-18.2	3,368.9	0.00	0.00	0.00
12,400.0	90.00	359.69	9,177.0	3,468.9	-18.7	3,468.9	0.00	0.00	0.00
12,500.0	90.00	359.69	9,177.0	3,568.9	-19.2	3,568.9	0.00	0.00	0.00
12,600.0	90.00	359.69	9,177.0	3,668.9	-19.8	3,668.9	0.00	0.00	0.00
12,700.0	90.00	359.69	9,177.0	3,768.9	-20.3	3,768.9	0.00	0.00	0.00
12,800.0	90.00	359.69	9,177.0	3,868.9	-20.8	3,868.9	0.00	0.00	0.00
12,900.0	90.00	359.69	9,177.0	3,968.9	-21.4	3,968.9	0.00	0.00	0.00
13,000.0	90.00	359.69	9,177.0	4,068.9	-21.9	4,068.9	0.00	0.00	0.00
13,100.0	90.00	359.69	9,177.0	4,168.9	-22.5	4,168.9	0.00	0.00	0.00
13,200.0	90.00	359.69	9,177.0	4,268.9	-23.0	4,268.9	0.00	0.00	0.00
13,300.0	90.00	359.69	9,177.0	4,368.9	-23.5	4,368.9	0.00	0.00	0.00
13,400.0	90.00	359.69	9,177.0	4,468.9	-24.1	4,468.9	0.00	0.00	0.00
13,500.0	90.00	359.69	9,177.0	4,568.9	-24.6	4,568.9	0.00	0.00	0.00
13,600.0	90.00	359.69	9,177.0	4,668.9	-25.2	4,668.9	0.00	0.00	0.00
13,700.0	90.00	359.69	9,177.0	4,768.9	-25.7	4,768.9	0.00	0.00	0.00
13,800.0	90.00	359.69	9,177.0	4,868.9	-26.2	4,868.9	0.00	0.00	0.00
13,900.0	90.00	359.69	9,177.0	4,968.9	-26.8	4,968.9	0.00	0.00	0.00
14,000.0	90.00	359.69	9,177.0	5,068.9	-27.3	5,068.9	0.00	0.00	0.00
14,100.0	90.00	359.69	9,177.0	5,168.9	-27.9	5,168.9	0.00	0.00	0.00
14,200.0	90.00	359.69	9,177.0	5,268.9	-28.4	5,268.9	0.00	0.00	0.00
14,300.0	90.00	359.69	9,177.0	5,368.9	-28.9	5,368.9	0.00	0.00	0.00
14,400.0	90.00	359.69	9,177.0	5,468.9	-29.5	5,468.9	0.00	0.00	0.00
14,500.0	90.00	359.69	9,177.0	5,568.9	-30.0	5,568.9	0.00	0.00	0.00
14,600.0	90.00	359.69	9,177.0	5,668.9	-30.5	5,668.9	0.00	0.00	0.00
14,700.0	90.00	359.69	9,177.0	5,768.8	-31.1	5,768.9	0.00	0.00	0.00
14,800.0	90.00	359.69	9,177.0	5,868.8	-31.6	5,868.9	0.00	0.00	0.00
14,900.0	90.00	359.69	9,177.0	5,968.8	-32.2	5,968.9	0.00	0.00	0.00
15,000.0	90.00	359.69	9,177.0	6,068.8	-32.7	6,068.9	0.00	0.00	0.00
15,100.0	90.00	359.69	9,177.0	6,168.8	-33.2	6,168.9	0.00	0.00	0.00
15,200.0	90.00	359.69	9,177.0	6,268.8	-33.8	6,268.9	0.00	0.00	0.00
15,300.0	90.00	359.69	9,177.0	6,368.8	-34.3	6,368.9	0.00	0.00	0.00

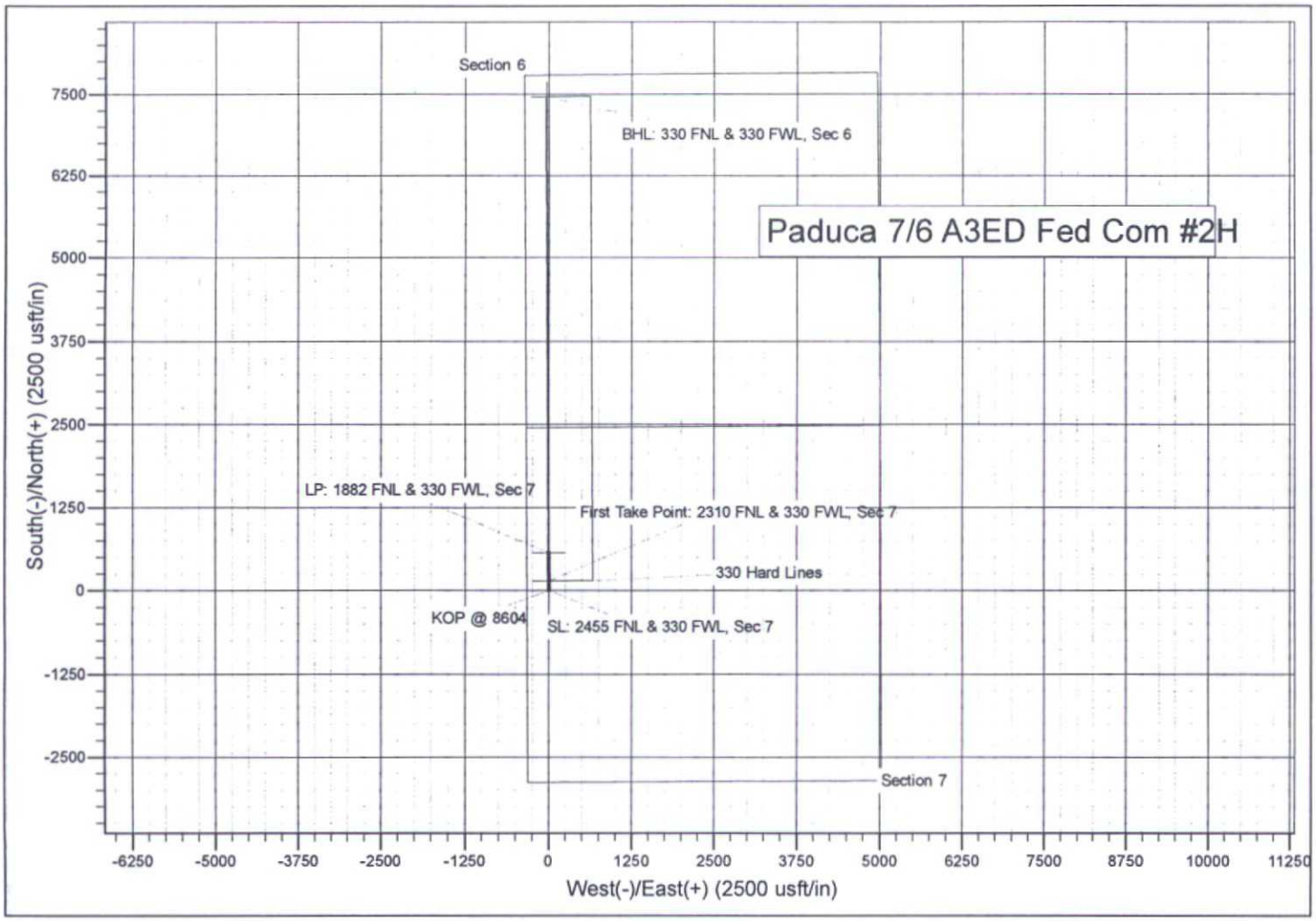
Database:	Hobbs	Local Co-ordinate Reference:	Site Paduca 7/6 A3ED Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3417.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3417.0usft (Original Well Elev)
Site:	Paduca 7/6 A3ED Fed Com #2H	North Reference:	Grid
Well:	Sec 7, T26S, R32E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 330' FWL, Sec 6		
Design:	Design #1		

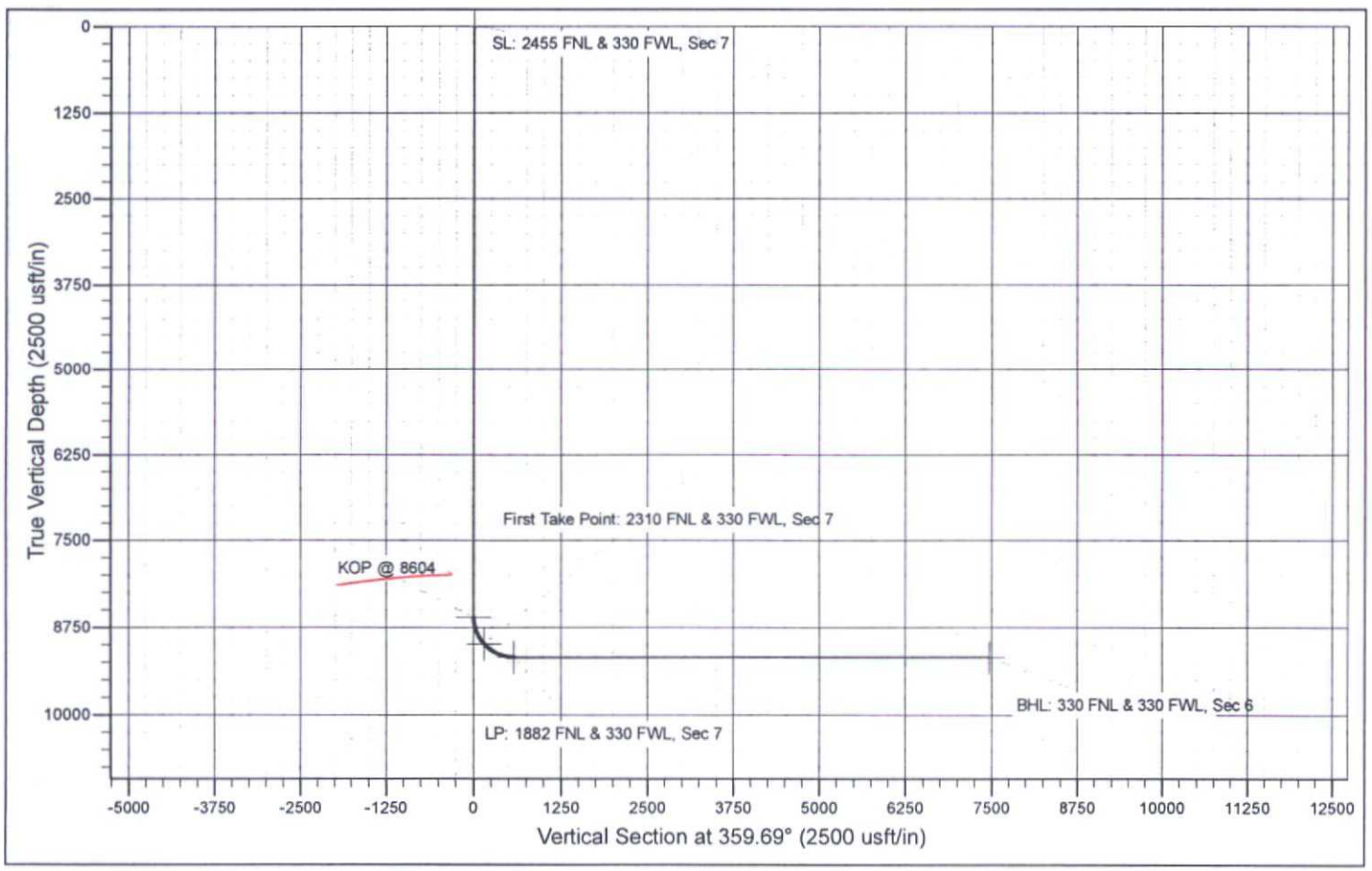
Planned Survey

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)
15,400.0	90.00	359.69	9,177.0	6,468.8	-34.9	6,468.9	0.00	0.00	0.00
15,500.0	90.00	359.69	9,177.0	6,568.8	-35.4	6,568.9	0.00	0.00	0.00
15,600.0	90.00	359.69	9,177.0	6,668.8	-35.9	6,668.9	0.00	0.00	0.00
15,700.0	90.00	359.69	9,177.0	6,768.8	-36.5	6,768.9	0.00	0.00	0.00
15,800.0	90.00	359.69	9,177.0	6,868.8	-37.0	6,868.9	0.00	0.00	0.00
15,900.0	90.00	359.69	9,177.0	6,968.8	-37.5	6,968.9	0.00	0.00	0.00
16,000.0	90.00	359.69	9,177.0	7,068.8	-38.1	7,068.9	0.00	0.00	0.00
16,100.0	90.00	359.69	9,177.0	7,168.8	-38.6	7,168.9	0.00	0.00	0.00
16,200.0	90.00	359.69	9,177.0	7,268.8	-39.2	7,268.9	0.00	0.00	0.00
16,300.0	90.00	359.69	9,177.0	7,368.8	-39.7	7,368.9	0.00	0.00	0.00
16,392.1	90.00	359.69	9,177.0	7,460.9	-40.2	7,461.0	0.00	0.00	0.00
BHL: 330 FNL & 330 FWL, Sec 6									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 2455 FNL & 330 FW - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	385,363.50	689,537.70	32° 3' 28.810 N	103° 43' 17.510 W
KOP @ 8604 - plan hits target center - Point	0.00	0.00	8,604.0	0.0	0.0	385,363.50	689,537.70	32° 3' 28.810 N	103° 43' 17.510 W
First Take Point: 2310 Fl - plan hits target center - Point	0.00	0.00	8,985.0	145.0	-0.8	385,508.50	689,536.90	32° 3' 30.245 N	103° 43' 17.510 W
LP: 1882 FNL & 330 FW - plan hits target center - Point	0.00	0.00	9,177.0	573.0	-3.1	385,936.50	689,534.60	32° 3' 34.481 N	103° 43' 17.508 W
BHL: 330 FNL & 330 FW - plan hits target center - Point	0.00	0.00	9,177.0	7,460.9	-40.2	392,824.40	689,497.50	32° 4' 42.646 N	103° 43' 17.486 W


Section 6
BHL: 330 FNL & 330 FWL, Sec 6
Paduca 7/6 A3ED Fed Com #2H
LP: 1882 FNL & 330 FWL, Sec 7
First Take Point: 2310 FNL & 330 FWL, Sec 7
330 Hard Lines
KOP @ 8604
SL: 2455 FNL & 330 FWL, Sec 7
Section 7
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SL: 2455 FNL & 330 FWL, Sec 7
First Take Point: 2310 FNL & 330 FWL, Sec 7
KOP @ 8604
BHL: 330 FNL & 330 FWL, Sec 6
LP: 1882 FNL & 330 FWL, Sec 7
True Vertical Depth (2500 usft/in)
Vertical Section at 359.69° (2500 usft/in)

Notes Regarding Blowout Preventer
Mewbourne Oil Company
Paduca 7/6 A3ED Fed Com #2H
2455' FNL & 330' FWL (SHL)
Sec 7-T26S-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 3000 psi working pressure on 9 5/8" and 7" casing.

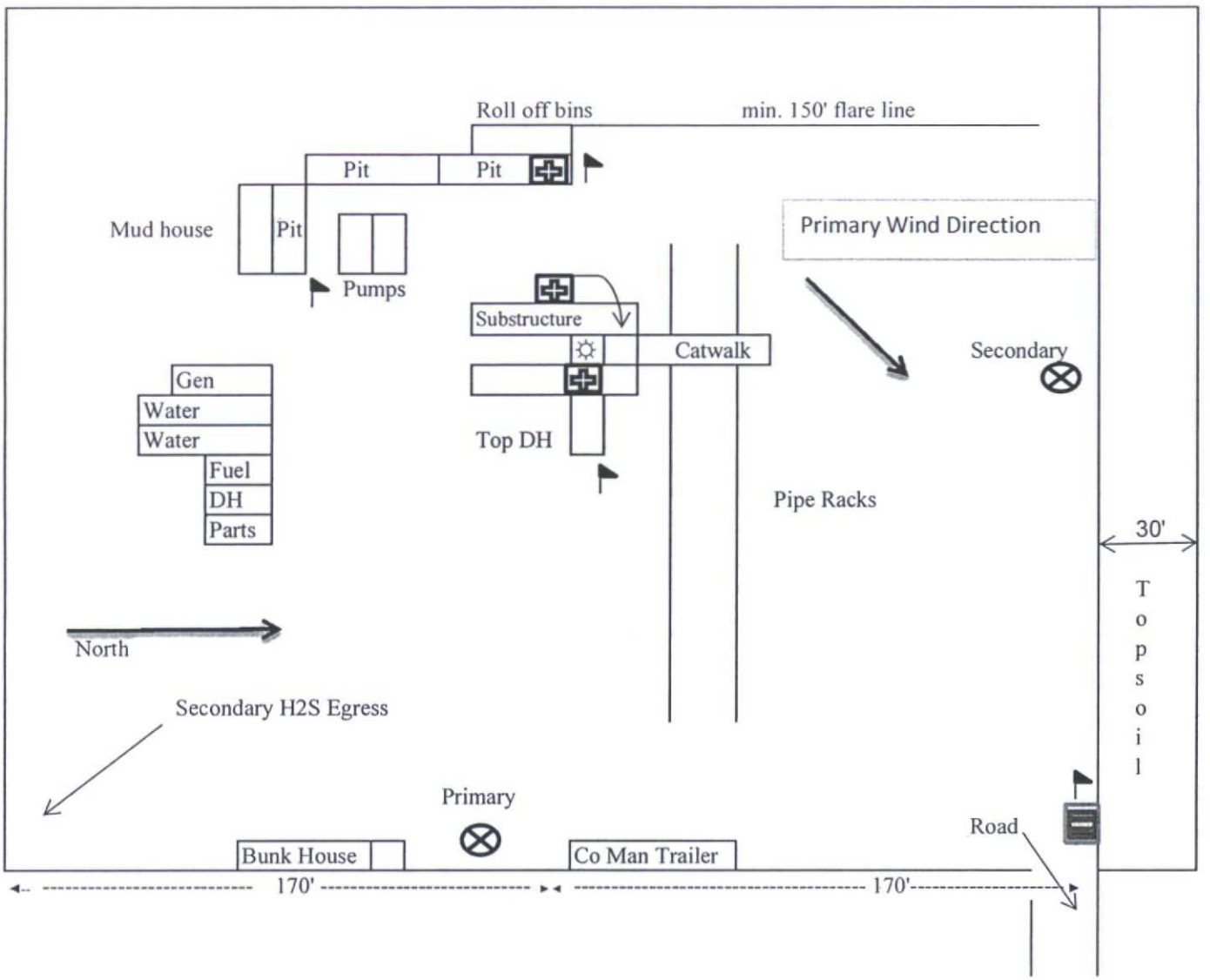
III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.

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.

H2S Diagram
Closed Loop Pad Dimensions 340' x 340'



= Safety Stations

= Wind Markers

= H2S Monitors

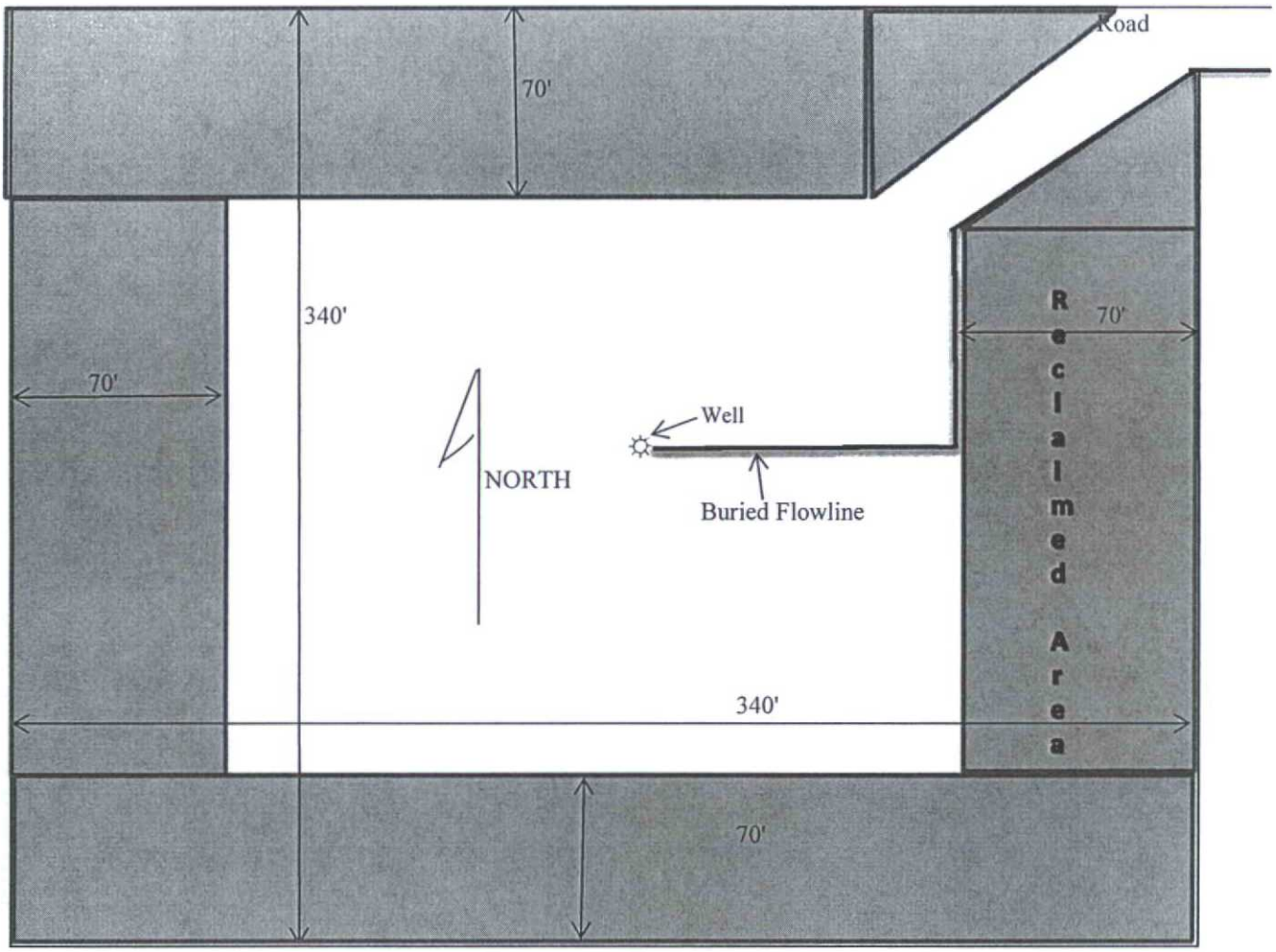
= Warning Signs

Exhibit 5

Mewbourne Oil Company
Paduca 7/6 A3ED Fed Com #2H
2455' FNL & 330' FWL
Sec. 7 T26S R32E
Lea County, NM

Exhibit "6"

Closed Loop Pad Dimensions 340' x 340'



Mewbourne Oil Company
Paduca 7/6 A3ED Fed Com #2H
2455' FNL & 330' FWL
Sec. 7 T26S R32E
Lea Co. NM

11" 3M BOPE & Closed Loop Equipment Schematic

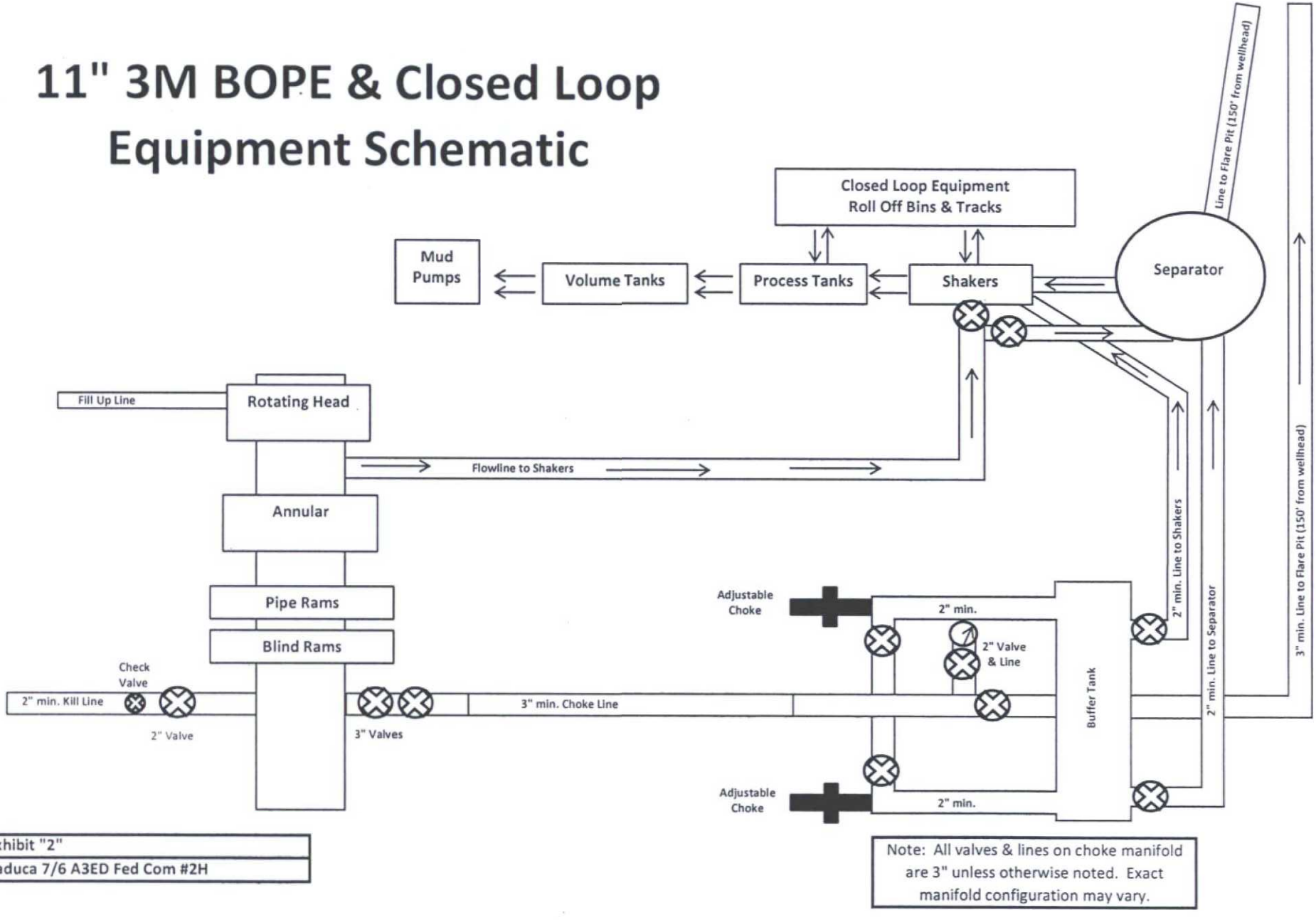


Exhibit "2"
Paduca 7/6 A3ED Fed Com #2H

Note: All valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.

13 ⅝" 2M BOPE & Closed Loop Equipment Schematic

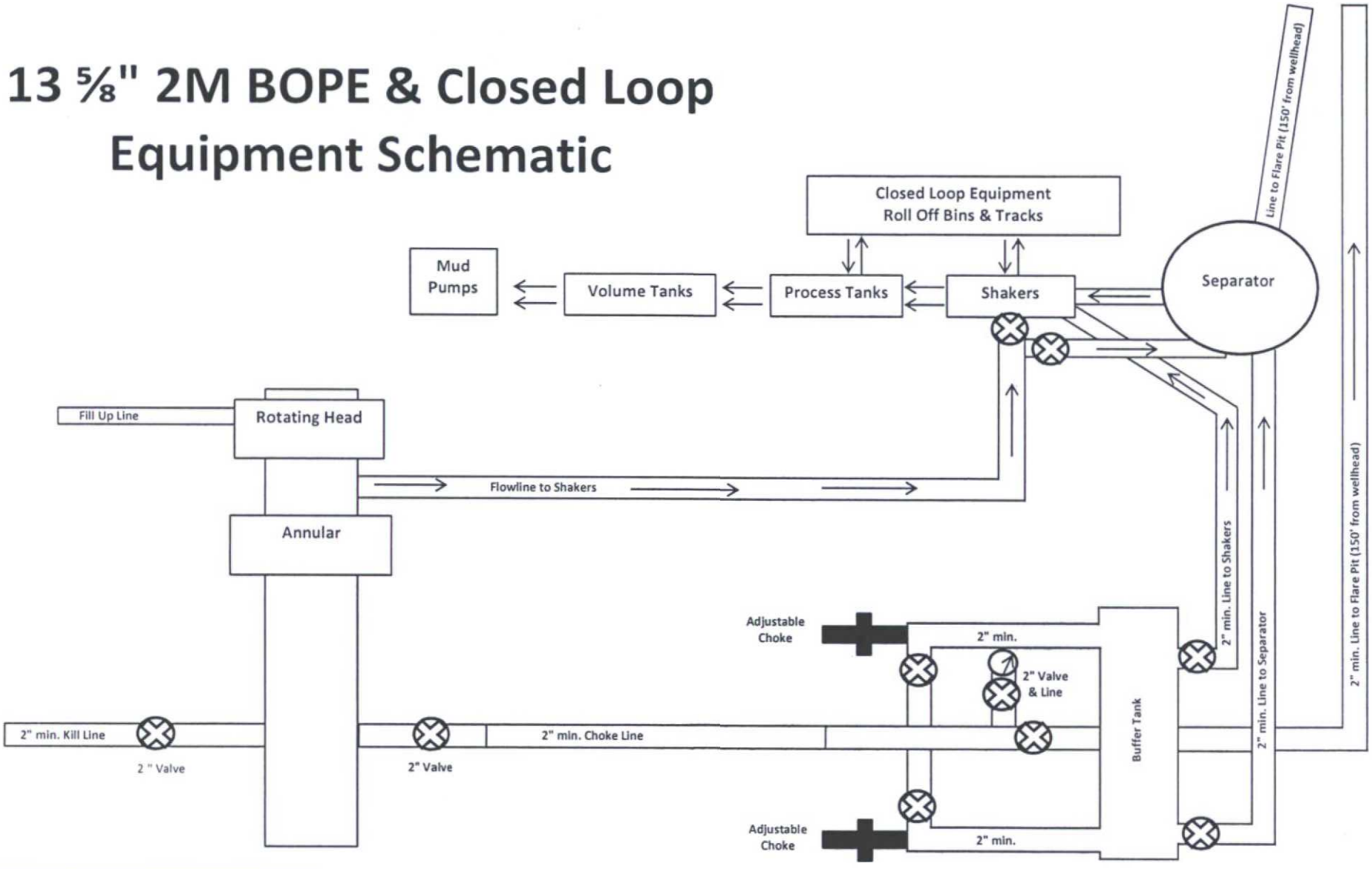


EXHIBIT "2"
Paduca 7/6 A3ED Fed Com #2H