

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 29 2011

APPLICATION FOR PERMIT TO DRILL OR REENTER

Split Estate

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No NMNM 123523	
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Mewbourne Oil Company (14744)		7. If Unit or CA Agreement, Name and No.	
3a. Address PO Box 5270 Hobbs, NM 88241		8. Lease Name and Well No. Marathon Road 14 Fed #2H	
3b. Phone No. (include area code) 575-393-5905		9. API Well No. 30-025-40671	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 330' FSL & 510' FEL Unit P At proposed prod. zone 2310' FSL & 510' FEL Unit I		10. Field and Pool, or Exploratory Lea: Bone Spring (37570)	
14. Distance in miles and direction from nearest town or post office* 16 miles SW of Monument, NM		11. Sec., T., R., M., or Bk. and Survey or Area Sec 14-T20S-R34E	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drg. unit line if any) 330'		12. County or Parish Lea	
16. No. of Acres in lease 80		13. State NM	
17. Spacing Unit dedicated to this well 80		18. Distance from proposed location to nearest well, drilling, completed applied for, on this lease ft. 816'	
19. Proposed Depth 12691' MD 10957' TVD		20. BI M/BIA Bond No. on file NM1693, Nationwide	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3656' GL		22. Approximate date work will start* ASAP	
		23. Estimated duration 45 days	

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 | 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 SUPE shall be filed with the appropriate Forest Service Office) | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Jackie Lathan</i>		Name (Printed/Typed) Jackie Lathan		Date 03/22/11	
Title Hobbs Regulatory					
Approved by (Signature) /s/ Don Peterson		Name (Printed/Typed)		SEP 22 2011	
Title FIELD MANAGER		Office CARLSBAD FIELD OFFICE			

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached

APPROVAL FOR TWO YEARS

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

(Instructions on reverse)

CAPITAN CONTROLLED WATER BASIN

Ka 07/09/12

NSL-6605

Witness Surface &
Intermediate Casing

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Drilling Program
Mewbourne Oil Company
Marathon Road "14" Federal Com #2H
330' FSL & 510' FEL (SHL)
Sec 14-T20S-R34E
Lea County, New Mexico

HOBBS OCD

SEP 29 2011

RECEIVED

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

Rustler	1600'
Yates	3700'
Capitan top	4000'
Capitan base	5300'
*Delaware	5500'
*Bone Springs	8300'
*1 st Bone Spring Sand	9478'

← Missing Top of Salt

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

Water	Fresh water is anticipated @ 125' and will be protected by setting surface casing at 1625' 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 10384' & kick off to horizontal @ 10957' TVD. The well will be drilled to 12691' MD (10957' 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)	61#	J55	0'-1625' 1680	BT&C
12 1/4"	9 5/8" (new)	40#	K55	0'-4200'	ST&C
12 1/4"	9 5/8" (new)	40#	HCK55	4200'-5400' ✓	ST&C
8 3/4"	7" (new)	26#	P110	0'-10390' MD	LT&C
8 3/4"	7" (new)	26#	P110	10390'-11290' MD	BT&C
6 1/8"	4 1/2" (new)	11.6#	P110	11090'-12691' MD	LT&C

See COA

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

*Subject to availability of casing.

See COA

B. Cementing Program:

** See COA For ~~excess~~ cement*

- i. Surface Casing: 540 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: 700 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: 280 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.
- iv. Production Liner: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger and no cement.
*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.

See COA

6. Mud Program:

** See COA*

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-1625'	FW spud mud	8.6-9.0	32-34	NA
1625'-5400'	Brine water	10.0-10.2	28-30	NA
5400'-10300'	FW	8.3-8.6	28-30	NA
10300'- TD	FW w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program:

** See COA*

Samples: 10' samples from surface casing to TD
Logging: GR, Neutron, & Gyro from KOP -100' (10287') to surface. GR from 10287' 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

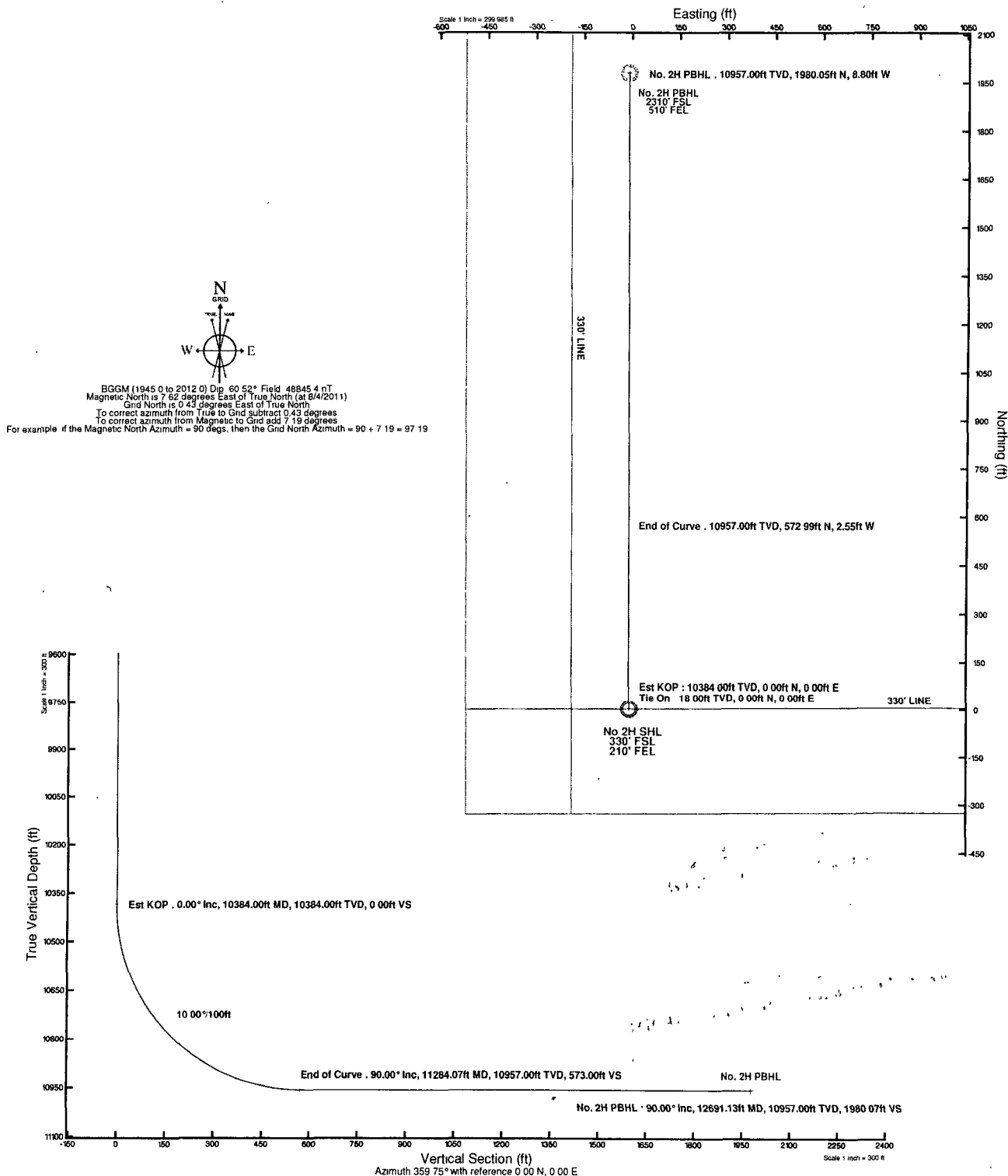
9. Anticipated Starting Date:

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.

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	18.00	0.000	359.745	18.00	0.00	0.00	0.00	0.00
Est KOP	10384.00	0.000	359.745	10384.00	0.00	0.00	0.00	0.00
End of Curve	11284.07	90.000	359.745	10957.00	572.99	-2.55	10.00	573.00
No. 2H PBHL	12691.13	90.000	359.745	10957.00	1980.05	-8.80	0.00	1980.07

Plot reference wellpath is Prelim. 2	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
True vertical depths are referenced to Rig on No 2H SHL (KB)	North Reference: Grid north
Measured depths are referenced to Rig on No 2H SHL (KB)	Scale: True distance
Rig on No 2H SHL (KB) to Mean Sea Level: 3674 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: No 2H SHL): -3656 feet	Created by: calphk on 8/4/2011
Coordinates are in feet referenced to Slot	



Planned Wellpath Report

Prelim_2
Page 1 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.2H SHL
Area	Lea County, NM	Well	No.2H
Field	(Marathon) Sec 14, T20S, R34E	Wellbore	No.2H PWB
Facility	Marathon Road 14 Fed Com No.2H		

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	Calhphik
Scale	0.999978	Report Generated	8/4/2011 at 4:57:48 PM
Convergence at slot	0.43° East	Database/Source file	WA_Midland/No.2H_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	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W
Facility Reference Pt			745217.50	570783.60	32°34'00.014"N	103°32'14.540"W
Field Reference Pt			749494.08	570810.74	32°33'59.964"N	103°31'24.569"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.2H SHL (KB) to Mean Sea Level	18.00ft
Horizontal Reference Pt	Slot	Rig on No.2H SHL (KB) to Mean Sea Level	3674.00ft
Vertical Reference Pt	Rig on No.2H SHL (KB)	Rig on No.2H SHL (KB) to Mud Line at Slot (No.2H SHL)	18.00ft
MD Reference Pt	Rig on No.2H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.75°

Planned Wellpath Report

Prelim 2

Page 2 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.2H SHL
Area	Lea County, NM	Well	No.2H
Field	(Marathon) Sec 14, T20S, R34E	Wellbore	No.2H PWB
Facility	Marathon Road 14 Fed Com No.2H		

WELLPATH DATA (131 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	359.745	0.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
18.00	0.000	359.745	18.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	Tie On
118.00†	0.000	359.745	118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
218.00†	0.000	359.745	218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
318.00†	0.000	359.745	318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
418.00†	0.000	359.745	418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
518.00†	0.000	359.745	518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
618.00†	0.000	359.745	618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
718.00†	0.000	359.745	718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
818.00†	0.000	359.745	818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
918.00†	0.000	359.745	918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1018.00†	0.000	359.745	1018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1118.00†	0.000	359.745	1118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1218.00†	0.000	359.745	1218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1318.00†	0.000	359.745	1318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1418.00†	0.000	359.745	1418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1518.00†	0.000	359.745	1518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1618.00†	0.000	359.745	1618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1718.00†	0.000	359.745	1718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1818.00†	0.000	359.745	1818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
1918.00†	0.000	359.745	1918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2018.00†	0.000	359.745	2018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2118.00†	0.000	359.745	2118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2218.00†	0.000	359.745	2218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2318.00†	0.000	359.745	2318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2418.00†	0.000	359.745	2418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2518.00†	0.000	359.745	2518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2618.00†	0.000	359.745	2618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2718.00†	0.000	359.745	2718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2818.00†	0.000	359.745	2818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
2918.00†	0.000	359.745	2918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3018.00†	0.000	359.745	3018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3118.00†	0.000	359.745	3118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3218.00†	0.000	359.745	3218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3318.00†	0.000	359.745	3318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3418.00†	0.000	359.745	3418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3518.00†	0.000	359.745	3518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3618.00†	0.000	359.745	3618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3718.00†	0.000	359.745	3718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3818.00†	0.000	359.745	3818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
3918.00†	0.000	359.745	3918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4018.00†	0.000	359.745	4018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4118.00†	0.000	359.745	4118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4218.00†	0.000	359.745	4218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4318.00†	0.000	359.745	4318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	

Planned Wellpath Report

Prelim 2

Page 3 of 4



REFERENCE WELLPATH IDENTIFICATION			
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4418.00†	0.000	359.745	4418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4518.00†	0.000	359.745	4518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4618.00†	0.000	359.745	4618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4718.00†	0.000	359.745	4718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4818.00†	0.000	359.745	4818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
4918.00†	0.000	359.745	4918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5018.00†	0.000	359.745	5018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5118.00†	0.000	359.745	5118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5218.00†	0.000	359.745	5218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5318.00†	0.000	359.745	5318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5418.00†	0.000	359.745	5418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5518.00†	0.000	359.745	5518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5618.00†	0.000	359.745	5618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5718.00†	0.000	359.745	5718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5818.00†	0.000	359.745	5818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
5918.00†	0.000	359.745	5918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6018.00†	0.000	359.745	6018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6118.00†	0.000	359.745	6118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6218.00†	0.000	359.745	6218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6318.00†	0.000	359.745	6318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6418.00†	0.000	359.745	6418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6518.00†	0.000	359.745	6518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6618.00†	0.000	359.745	6618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6718.00†	0.000	359.745	6718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6818.00†	0.000	359.745	6818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
6918.00†	0.000	359.745	6918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7018.00†	0.000	359.745	7018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7118.00†	0.000	359.745	7118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7218.00†	0.000	359.745	7218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7318.00†	0.000	359.745	7318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7418.00†	0.000	359.745	7418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7518.00†	0.000	359.745	7518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7618.00†	0.000	359.745	7618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7718.00†	0.000	359.745	7718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7818.00†	0.000	359.745	7818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
7918.00†	0.000	359.745	7918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8018.00†	0.000	359.745	8018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8118.00†	0.000	359.745	8118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8218.00†	0.000	359.745	8218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8318.00†	0.000	359.745	8318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8418.00†	0.000	359.745	8418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8518.00†	0.000	359.745	8518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8618.00†	0.000	359.745	8618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8718.00†	0.000	359.745	8718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
8818.00†	0.000	359.745	8818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	

Planned Wellpath Report

Prelim_2

Page 4 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No.2H SHL
Area	Lea County, NM	Well	No.2H
Field	(Marathon) Sec 14, T20S, R34E	Wellbore	No.2H PWB
Facility	Marathon Road 14 Fed Com No.2H		

WELLPATH DATA (131 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
8918.00†	0.000	359.745	8918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9018.00†	0.000	359.745	9018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9118.00†	0.000	359.745	9118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9218.00†	0.000	359.745	9218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9318.00†	0.000	359.745	9318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9418.00†	0.000	359.745	9418.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9518.00†	0.000	359.745	9518.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9618.00†	0.000	359.745	9618.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9718.00†	0.000	359.745	9718.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9818.00†	0.000	359.745	9818.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
9918.00†	0.000	359.745	9918.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
10018.00†	0.000	359.745	10018.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
10118.00†	0.000	359.745	10118.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
10218.00†	0.000	359.745	10218.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
10318.00†	0.000	359.745	10318.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	
10384.00	0.000	359.745	10384.00	0.00	0.00	0.00	745217.50	570783.60	32°34'00.014"N	103°32'14.540"W	0.00	Est KOP
10418.00†	3.400	359.745	10417.98	1.01	1.01	0.00	745217.50	570784.61	32°34'00.024"N	103°32'14.540"W	10.00	
10518.00†	13.399	359.745	10516.78	15.60	15.60	-0.07	745217.43	570799.20	32°34'00.169"N	103°32'14.540"W	10.00	
10618.00†	23.398	359.745	10611.55	47.12	47.12	-0.21	745217.29	570830.72	32°34'00.481"N	103°32'14.539"W	10.00	
10718.00†	33.398	359.745	10699.40	94.62	94.62	-0.42	745217.08	570878.22	32°34'00.951"N	103°32'14.537"W	10.00	
10818.00†	43.397	359.745	10777.68	156.65	156.65	-0.70	745216.80	570940.25	32°34'01.564"N	103°32'14.535"W	10.00	
10918.00†	53.396	359.745	10843.99	231.33	231.33	-1.03	745216.47	571014.92	32°34'02.303"N	103°32'14.532"W	10.00	
11018.00†	63.395	359.745	10896.33	316.39	316.39	-1.41	745216.09	571099.98	32°34'03.145"N	103°32'14.529"W	10.00	
11118.00†	73.395	359.745	10933.10	409.25	409.24	-1.82	745215.68	571192.83	32°34'04.064"N	103°32'14.526"W	10.00	
11218.00†	83.394	359.745	10953.20	507.08	507.07	-2.25	745215.25	571290.66	32°34'05.032"N	103°32'14.522"W	10.00	
11284.07	90.000	359.745	10957.00	573.00	572.99	-2.55	745214.95	571356.58	32°34'05.684"N	103°32'14.520"W	10.00	End of Curve
11318.00†	90.000	359.745	10957.00	606.93	606.93	-2.70	745214.80	571390.51	32°34'06.020"N	103°32'14.519"W	0.00	
11418.00†	90.000	359.745	10957.00	706.93	706.93	-3.14	745214.36	571490.51	32°34'07.009"N	103°32'14.515"W	0.00	
11518.00†	90.000	359.745	10957.00	806.93	806.93	-3.59	745213.91	571590.51	32°34'07.999"N	103°32'14.512"W	0.00	
11618.00†	90.000	359.745	10957.00	906.93	906.92	-4.03	745213.47	571690.50	32°34'08.988"N	103°32'14.508"W	0.00	
11718.00†	90.000	359.745	10957.00	1006.93	1006.92	-4.48	745213.02	571790.50	32°34'09.978"N	103°32'14.505"W	0.00	
11818.00†	90.000	359.745	10957.00	1106.93	1106.92	-4.92	745212.58	571890.50	32°34'10.967"N	103°32'14.501"W	0.00	
11918.00†	90.000	359.745	10957.00	1206.93	1206.92	-5.36	745212.14	571990.49	32°34'11.957"N	103°32'14.498"W	0.00	
12018.00†	90.000	359.745	10957.00	1306.93	1306.92	-5.81	745211.69	572090.49	32°34'12.946"N	103°32'14.494"W	0.00	
12118.00†	90.000	359.745	10957.00	1406.93	1406.92	-6.25	745211.25	572190.49	32°34'13.936"N	103°32'14.490"W	0.00	
12218.00†	90.000	359.745	10957.00	1506.93	1506.92	-6.70	745210.80	572290.48	32°34'14.925"N	103°32'14.487"W	0.00	
12318.00†	90.000	359.745	10957.00	1606.93	1606.92	-7.14	745210.36	572390.48	32°34'15.915"N	103°32'14.483"W	0.00	
12418.00†	90.000	359.745	10957.00	1706.93	1706.92	-7.59	745209.91	572490.48	32°34'16.904"N	103°32'14.480"W	0.00	
12518.00†	90.000	359.745	10957.00	1806.93	1806.92	-8.03	745209.47	572590.47	32°34'17.894"N	103°32'14.476"W	0.00	
12618.00†	90.000	359.745	10957.00	1906.93	1906.91	-8.48	745209.03	572690.47	32°34'18.883"N	103°32'14.473"W	0.00	
12691.13	90.000	359.745	10957.00†	1980.07	1980.05	-8.80	745208.70	572763.60	32°34'19.607"N	103°32'14.470"W	0.00	No. 2H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Marathon Road 14 Fed Com	12691.13	10957.00	1980.05	-8.80	745208.70	572763.60	32°34'19.607"N	103°32'14.470"W	point

No.2H PBHL

SURVEY PROGRAM - Ref Wellbore: No.2H PWB Ref Wellpath: Prelim_2

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	12691.13	NaviTrak (Standard)		No.2H PWB

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

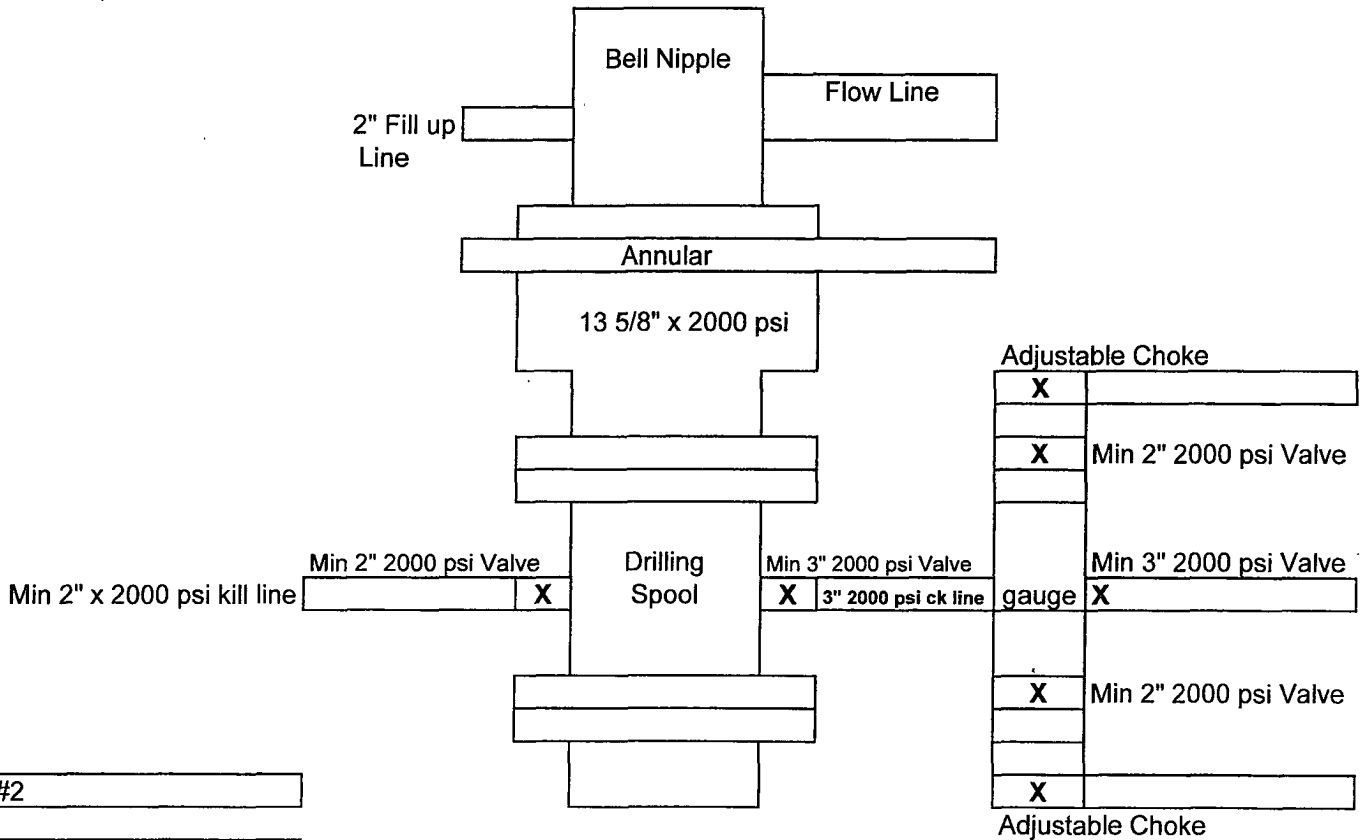


Exhibit #2

Marathon Road 14 Fed Com #2H
330' FSL & 510' FEL
Sec 14, T20S, R34E
Lea, County
New Mexico

Mewbourne Oil Company

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

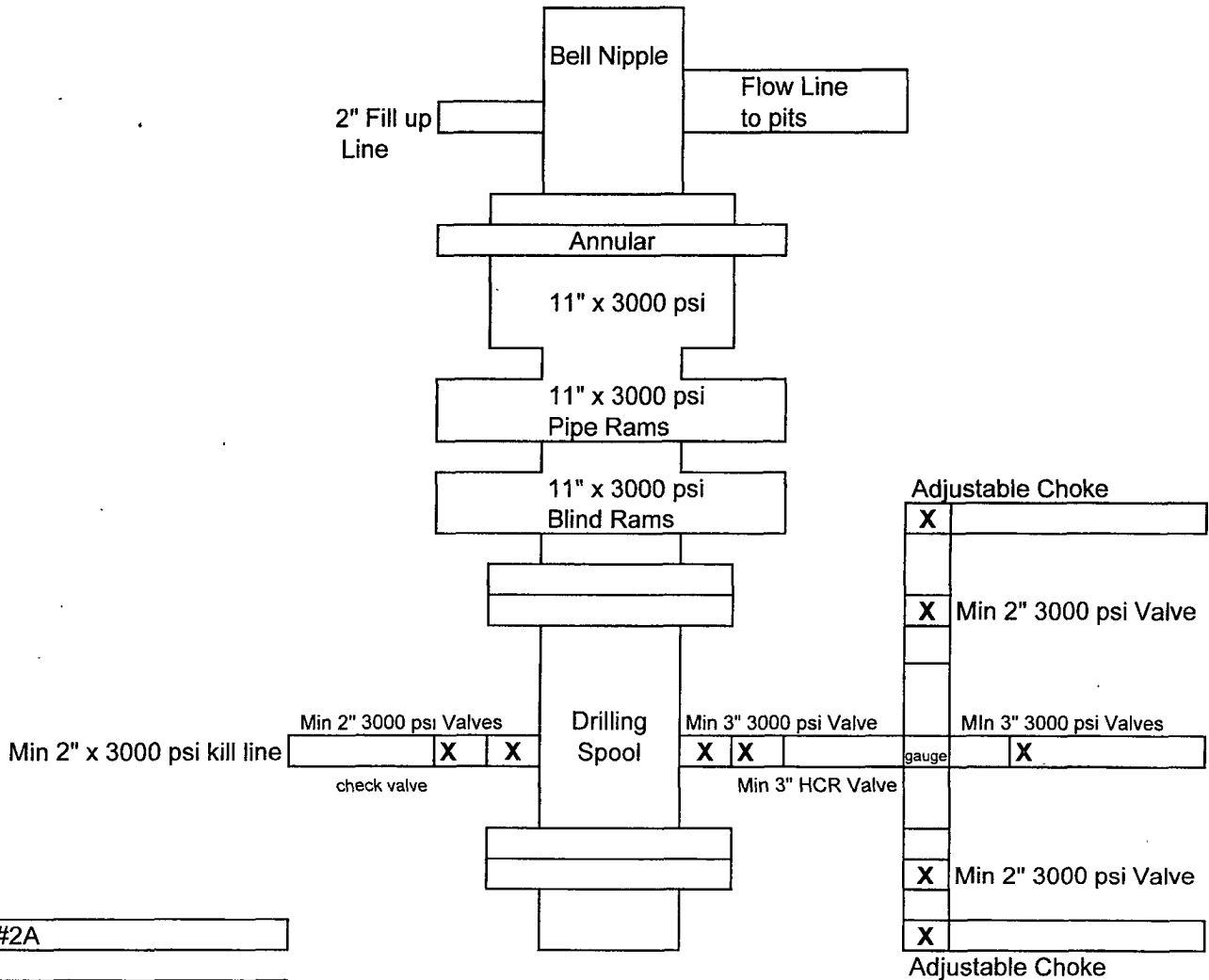


Exhibit #2A

Marathon Road 14 Fed Com #2H
330' FSL & 510' FEL
Sec 14, T20S, R34E
Lea, County
New Mexico

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Marathon Road "14" Federal Com #2H

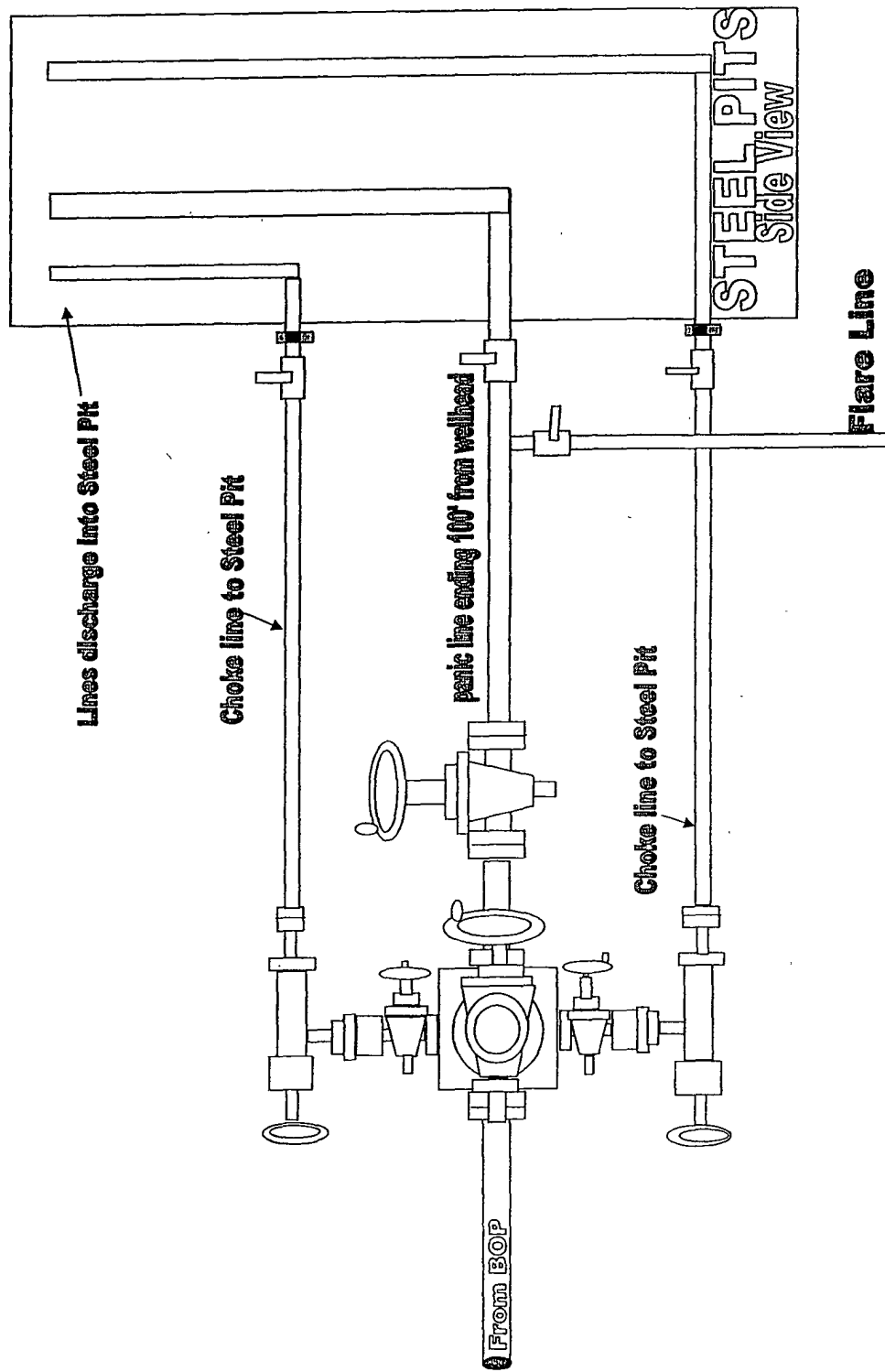
330' FSL & 510' FEL (SHL)

Sec 14-T20S-R34E

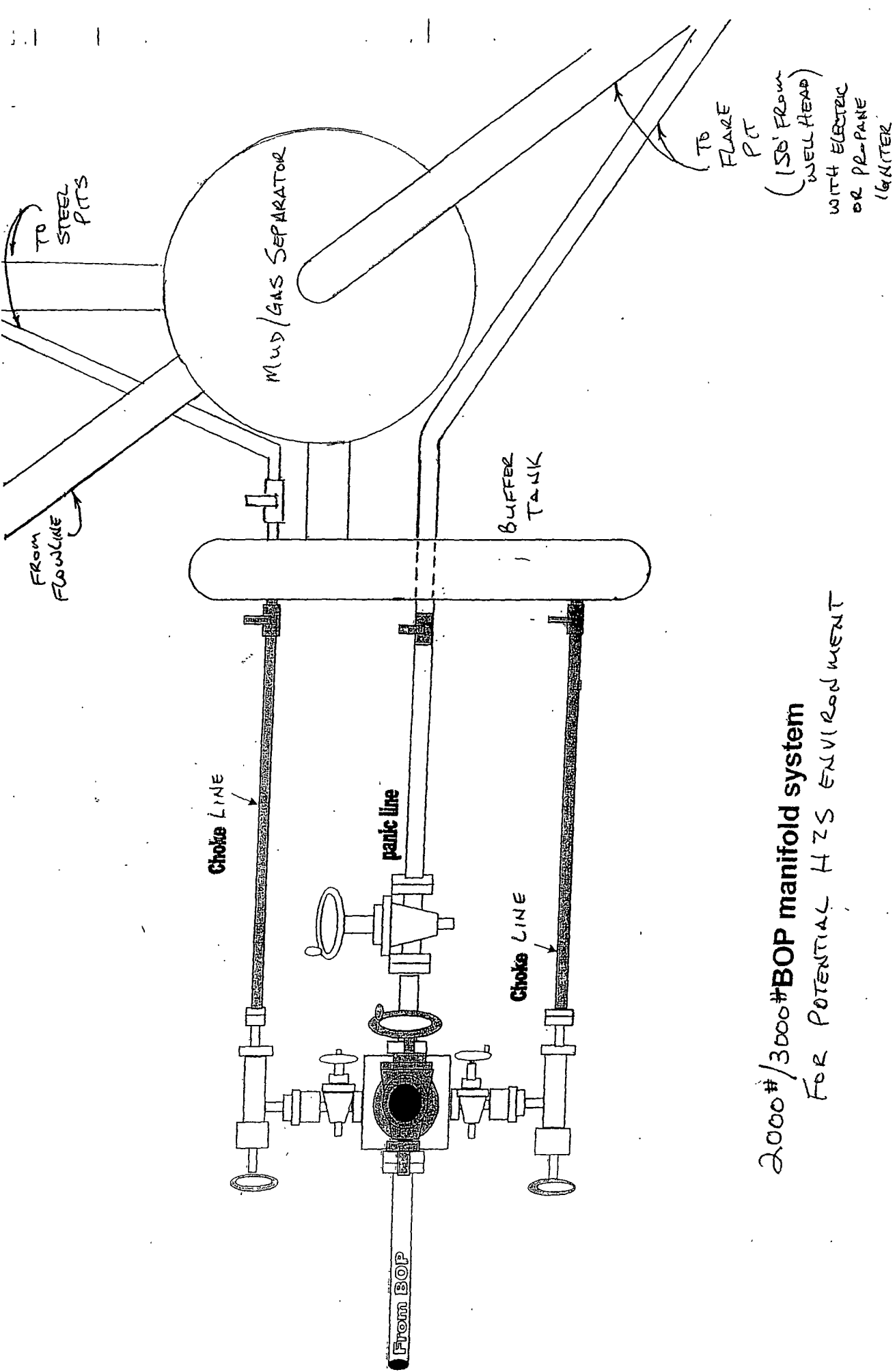
Lea County, New Mexico

- 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".
- 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.



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



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

Closed Loop Pad Dimensions 280' x 320'

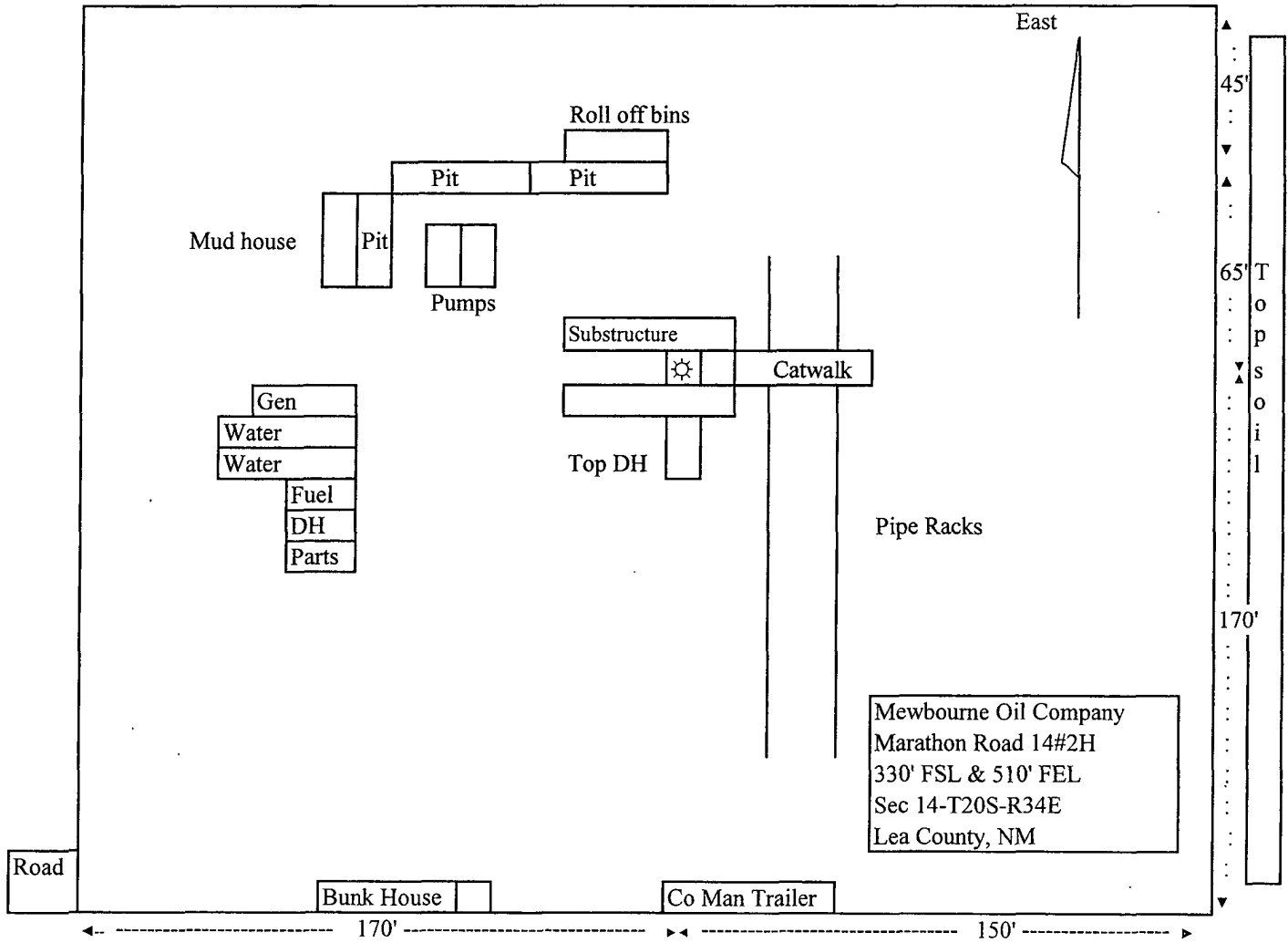


Exhibit 5