

OCD-HOBBS
HOBBS OCDUNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 04 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 20105 Lease Serial No. 72
NM 113968 & NM0329082-A

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER7 If Unit or CA Agreement, Name and No.
Red Hills West Unit, NM125386X1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone8. Lease Name and Well No.
Red Hills West Unit "9" #5H <392597

2. Name of Operator Mewbourne Oil Company

9 API Well No.

30-025-40605

3a. Address PO Box 5270
Hobbs, NM 882403b Phone No. (include area code)
<147447
(575) 393-5905

10 Field and Pool, or Exploratory

Wildcat Bone Spring, 96403 92838

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

At surface 150' FSL & 1650' FWL (Unit N)

At proposed prod. zone 330' FNL & 1700' FWL (Unit C)

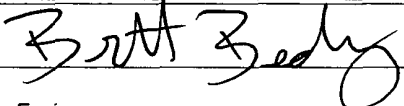
11. Sec., T. R. M. or Blk. and Survey or Area
Sec 9, T26S, R32E14. Distance in miles and direction from nearest town or post office*
29.1 miles West of Jal, NM12. County or Parish
Lea13. State
NM15 Distance from proposed* 150'
location to nearest
property or lease line, ft
(Also to nearest drig. unit line, if any)16 No. of acres in lease
280 & 156017. Spacing Unit dedicated to this well
16018. Distance from proposed location* 1130' SE of the Exxon
to nearest well, drilling, completed, Fed #2
applied for, on this lease, ft19 Proposed Depth
13952' MD
9333' TVD20 BLM/BIA Bond No. on file
NM 1693, Nationwide21 Elevations (Show whether DF, KDB, RT, GL, etc.)
3203' GL22. Approximate date work will start*
10/01/201223. Estimated duration
32 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 
Title
Petroleum EngineerName (Printed/Typed)
Brett BednarzDate
03/06/2012

Approved by (Signature) /s/ Don Peterson

Name (Printed/Typed)

Date MAY 31 2012

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.

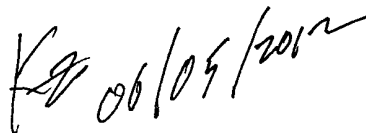
APPROVAL FOR TWO YEARS

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)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

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

JUN 07 2012

**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-113968 & NM-0392082-A

Legal Description of Land: Section 9, T-26S, R-32E Lea County, New Mexico.
Location @ 150' FSL & 1650' FWL.

Formation (if applicable): Bone Springs

Bond Coverage: \$150,000

BLM Bond File: NM1693, Nationwide

Authorized Signature: _____

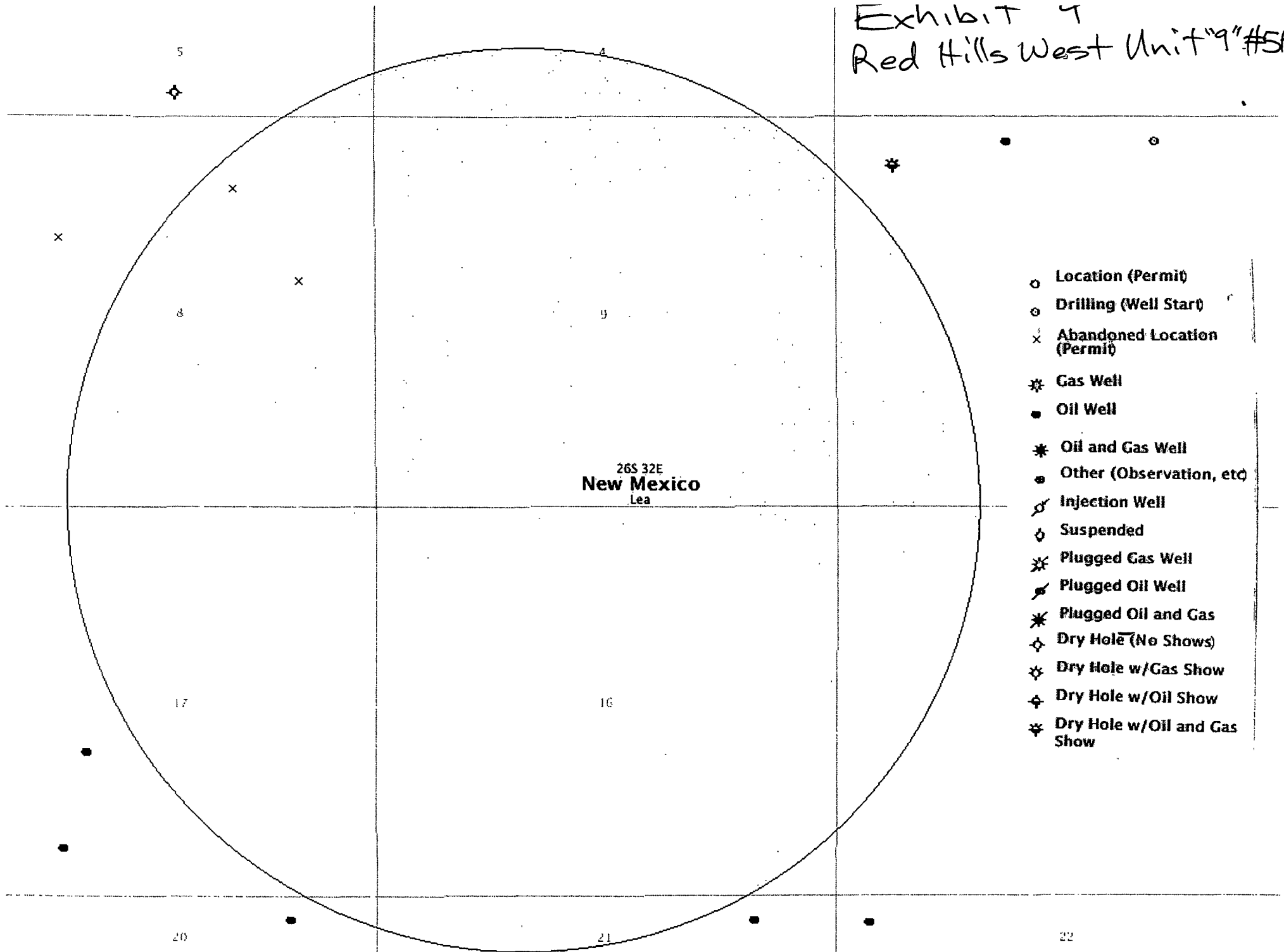
Brett Beeky for NM
Young

Name: NM (Mickey) Young

Title: District Manager

Date: 3-6-12.

Exhibit 4 Red Hills West Unit "9" #5



Drilling Program
Mewbourne Oil Company
 Red Hills West Unit "9" #5H
 150' FSL & 1650' FWL (SHL)
 Sec 9-T26S-R32E
 Lea County, New Mexico

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

Rustler	910'
Top Salt	1240'
Base Salt	4340'
Lamar	4400'
*Delaware	4430'
*Bone Springs	8450'

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

Water	Fresh water is anticipated at 50' and will be protected by setting surface casing at 935' 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:

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 8760' & kick off to horizontal @ 9333' TVD. The well will be drilled to 13952' MD (9293' TVD). See attached directional plan.

5. Proposed casing and cementing program:

*Per Operator
5/25/12
CRW*

A. Casing Program:						
Hole Size	Casing	Wt/Ft	Grade	Depth	Jt Type	
17 1/2"	13 3/8" (new)	48#	H40	0'-935'	ST&C	
		36#	J-55	0-3240	STC	
12 1/4"	9 5/8" (new)	40#	J-55	3240-4240	LTC	
		40#	N-80	4240-4400	LTC	
8 3/4"	7" (new)	26#	P110	0'-8760' MD	LT&C	
8 3/4"	7" (new)	26#	P110	8760'-9665' MD	BT&C	
6 1/8"	4 1/2" (new)	11.6#	P110	9465'-13952' 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:

- See COA
- i. Surface Casing: 520 sks Class "C" lite (35:65:4) cement w/ salt and LCM additives. Yield at 2.15 cuft/sk. 200 sks Class "C" cement w/ 2% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/100% excess.
 - ii. Intermediate Casing: 580 sks Class "C" lite (35:65:4) cement w/ LCM & Cello Flake additives. Yield at 2.03 cuft/sk. 400 sacks Class "C" cement. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
 - iii. Production Casing: 260 sks Class "H" lite (35:65:4) cement w/ FL & MPA5 additives. Yield at 2.11 cuft/sk. 400 sks Class "H" cement w/ Salt & FL additives. Yield at 1.19 cuft/sk. Cmt will tie-back 200' inside Intermediate csg 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' - 935' / 1060'	FW spud mud	8.6-9.0	32-34	NA
935' - 4400'	Brine Water	10.0-10.2	28-30	NA
4400' - 8760' (KOP)	Cut Brine	8.3-8.6	28-30	NA
8760' - TD	Cut Brine w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program: See COA

Samples: 10' samples from surface casing to TD
Logging: GR/N & Gyro from KOP -100' (8660') to surface. GR from 8660' 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.

Mewbourne Oil Co

Eddy County, New Mexico

Sec 9: T26S - R32E

Red Hills West Unit 9 #5H

Red Hills West '9' Federal Com 5H

Plan: Design #1

DDC Well Planning Report

21 February, 2012



DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Hills West Unit 9 #5H
Company:	Mewbourne Oil Co	TVD Reference:	GL 3203'+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Project:	Eddy County, New Mexico	MD Reference:	GL 3203'+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Site:	Sec 9: T26S - R32E	North Reference:	Grid
Well:	Red Hills West Unit 9 #5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Red Hills West '9' Federal Com 5H		
Design:	Design #1		

Project:	Eddy 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:	Sec 9: T26S - R32E		
Site Position:		Northing:	382,720.79 usft
From:	Map	Easting:	701,552.17 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 1.963 N
		Longitude:	103° 40' 58.090 W
		Grid Convergence:	0.35 °

Well:	Red Hills West Unit 9 #5H		
Well Position	+N/-S	0.0 usft	Northing: 382,720.79 usft
	+E/-W	0.0 usft	Easting: 701,552.17 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 3' 1.963 N
			Longitude: 103° 40' 58.090 W
			Ground Level: 3,203.0 usft

Wellbore:	Red Hills West '9' Federal Com 5H		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	2/14/2012	(°)
			7.54
			Dip Angle
			(°)
			59.99
			Field Strength
			(nT)
			48,434

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			0.51

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,760.1	0.00	0.00	8,760.1	0.0	0.0	0.00	0.00	0.00	0.00	
9,665.4	90.54	0.51	9,333.0	578.3	5.2	10.00	10.00	0.00	0.51	
13,951.7	90.54	0.51	9,293.0	4,864.2	43.6	0.00	0.00	0.00	0.00	Red Hills W. Unit 9 5H

DDC
Well Planning Report



Database:	EDM 5000.1 Single User.Db	Local Co-ordinate Reference:	Well Red Hills West Unit 9 #5H
Company:	Mewbourne Oil Co	TVD Reference:	GL 3203+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Project:	Eddy County, New Mexico	MD Reference:	GL 3203+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Site:	Sec 9: T26S - R32E	North Reference:	Grid
Well:	Red Hills West Unit 9 #5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Red Hills West 9' Federal Com.5H		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	

DDC
Well Planning Report



Database Company:	EDM 5000.1 Single User Db Mewbourne Oil Co	Local Co-ordinate Reference:	Well Red Hills West Unit 9 #5H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3203'+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Site:	Sec 9: T26S - R32E	MD Reference:	GL 3203'+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Well:	Red Hills West Unit 9 #5H	North Reference:	Grid
Wellbore:	Red Hills West '9' Federal Com 5H	Survey Calculation Method:	Minimum Curvature
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)
5,200.0	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
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
.8760° MD: KOP - Begin Build @ 10° DLS									
8,760.1	0.00	0.00	8,760.1	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	3.99	0.51	8,800.0	1.4	0.0	1.4	10.00	10.00	0.00
8,900.0	13.99	0.51	8,898.6	17.0	0.2	17.0	10.00	10.00	0.00
9,000.0	23.99	0.51	8,993.1	49.5	0.4	49.5	10.00	10.00	0.00
9,100.0	33.99	0.51	9,080.4	97.9	0.9	97.9	10.00	10.00	0.00
9,200.0	43.99	0.51	9,158.0	160.7	1.4	160.7	10.00	10.00	0.00
9,300.0	53.99	0.51	9,223.6	236.1	2.1	236.1	10.00	10.00	0.00
9,400.0	63.99	0.51	9,275.0	321.7	2.9	321.7	10.00	10.00	0.00
9,500.0	73.99	0.51	9,310.8	414.9	3.7	414.9	10.00	10.00	0.00
9,600.0	83.99	0.51	9,329.9	513.0	4.6	513.0	10.00	10.00	0.00
.9665.4° MD: End of Curve w/90.54° on Azm. 0.51°									
9,665.4	90.53	0.51	9,333.0	578.2	5.2	578.3	10.00	10.00	0.00
9,700.0	90.54	0.51	9,332.7	612.8	5.5	612.9	0.01	0.01	0.00
9,800.0	90.54	0.51	9,331.8	712.8	6.4	712.9	0.00	0.00	0.00
9,900.0	90.54	0.51	9,330.8	812.8	7.3	812.9	0.00	0.00	0.00

DDC
Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Hills West Unit 9 #5H
Company:	Mewbourne Oil Co	TVD Reference:	GL 3203' + 20' KB @ 3223.0usft (Patterson UTI Rig)
Project:	Eddy County, New Mexico	MD Reference:	GL 3203' + 20' KB @ 3223.0usft (Patterson UTI Rig)
Site:	Sec 9: T26S - R32E	North Reference:	Grid
Well:	Red Hills West Unit 9 #5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Red Hills West :9' Federal Com 5H		
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	90.54	0.51	9,329.9	912.8	8.2	912.9	0.00	0.00	0.00	
10,100.0	90.54	0.51	9,329.0	1,012.8	9.1	1,012.8	0.00	0.00	0.00	
10,200.0	90.54	0.51	9,328.0	1,112.8	10.0	1,112.8	0.00	0.00	0.00	
10,300.0	90.54	0.51	9,327.1	1,212.8	10.9	1,212.8	0.00	0.00	0.00	
10,400.0	90.54	0.51	9,326.2	1,312.8	11.8	1,312.8	0.00	0.00	0.00	
10,500.0	90.54	0.51	9,325.2	1,412.8	12.7	1,412.8	0.00	0.00	0.00	
10,600.0	90.54	0.51	9,324.3	1,512.8	13.6	1,512.8	0.00	0.00	0.00	
10,700.0	90.54	0.51	9,323.4	1,612.8	14.5	1,612.8	0.00	0.00	0.00	
10,800.0	90.54	0.51	9,322.4	1,712.7	15.4	1,712.8	0.00	0.00	0.00	
10,900.0	90.54	0.51	9,321.5	1,812.7	16.2	1,812.8	0.00	0.00	0.00	
11,000.0	90.54	0.51	9,320.6	1,912.7	17.1	1,912.8	0.00	0.00	0.00	
11,100.0	90.54	0.51	9,319.6	2,012.7	18.0	2,012.8	0.00	0.00	0.00	
11,200.0	90.54	0.51	9,318.7	2,112.7	18.9	2,112.8	0.00	0.00	0.00	
11,300.0	90.54	0.51	9,317.8	2,212.7	19.8	2,212.8	0.00	0.00	0.00	
11,400.0	90.54	0.51	9,316.8	2,312.7	20.7	2,312.8	0.00	0.00	0.00	
11,500.0	90.54	0.51	9,315.9	2,412.7	21.6	2,412.8	0.00	0.00	0.00	
11,600.0	90.54	0.51	9,315.0	2,512.7	22.5	2,512.8	0.00	0.00	0.00	
11,700.0	90.54	0.51	9,314.0	2,612.7	23.4	2,612.8	0.00	0.00	0.00	
11,800.0	90.54	0.51	9,313.1	2,712.7	24.3	2,712.8	0.00	0.00	0.00	
11,900.0	90.54	0.51	9,312.2	2,812.7	25.2	2,812.8	0.00	0.00	0.00	
12,000.0	90.54	0.51	9,311.2	2,912.6	26.1	2,912.8	0.00	0.00	0.00	
12,100.0	90.54	0.51	9,310.3	3,012.6	27.0	3,012.8	0.00	0.00	0.00	
12,200.0	90.54	0.51	9,309.4	3,112.6	27.9	3,112.8	0.00	0.00	0.00	
12,300.0	90.54	0.51	9,308.4	3,212.6	28.8	3,212.8	0.00	0.00	0.00	
12,400.0	90.54	0.51	9,307.5	3,312.6	29.7	3,312.7	0.00	0.00	0.00	
12,500.0	90.54	0.51	9,306.6	3,412.6	30.6	3,412.7	0.00	0.00	0.00	
12,600.0	90.54	0.51	9,305.6	3,512.6	31.5	3,512.7	0.00	0.00	0.00	
12,700.0	90.54	0.51	9,304.7	3,612.6	32.4	3,612.7	0.00	0.00	0.00	
12,800.0	90.54	0.51	9,303.8	3,712.6	33.3	3,712.7	0.00	0.00	0.00	
12,900.0	90.54	0.51	9,302.8	3,812.6	34.2	3,812.7	0.00	0.00	0.00	
13,000.0	90.54	0.51	9,301.9	3,912.6	35.1	3,912.7	0.00	0.00	0.00	
13,100.0	90.54	0.51	9,301.0	4,012.6	36.0	4,012.7	0.00	0.00	0.00	
13,200.0	90.54	0.51	9,300.0	4,112.5	36.9	4,112.7	0.00	0.00	0.00	
13,300.0	90.54	0.51	9,299.1	4,212.5	37.8	4,212.7	0.00	0.00	0.00	
13,400.0	90.54	0.51	9,298.2	4,312.5	38.7	4,312.7	0.00	0.00	0.00	
13,500.0	90.54	0.51	9,297.2	4,412.5	39.6	4,412.7	0.00	0.00	0.00	
13,600.0	90.54	0.51	9,296.3	4,512.5	40.4	4,512.7	0.00	0.00	0.00	
13,700.0	90.54	0.51	9,295.4	4,612.5	41.3	4,612.7	0.00	0.00	0.00	
13,800.0	90.54	0.51	9,294.4	4,712.5	42.2	4,712.7	0.00	0.00	0.00	
13,900.0	90.54	0.51	9,293.5	4,812.5	43.1	4,812.7	0.00	0.00	0.00	
13951.7' MD / 9293' TVD - Total Depth - Red Hills W. Unit 9 5H PBHL - Red Hills W. Unit 9 5H Landing Pt.										
13,951.7	90.54	0.51	9,293.0	4,864.2	43.6	4,864.4	0.00	0.00	0.00	

DDC
Well Planning Report



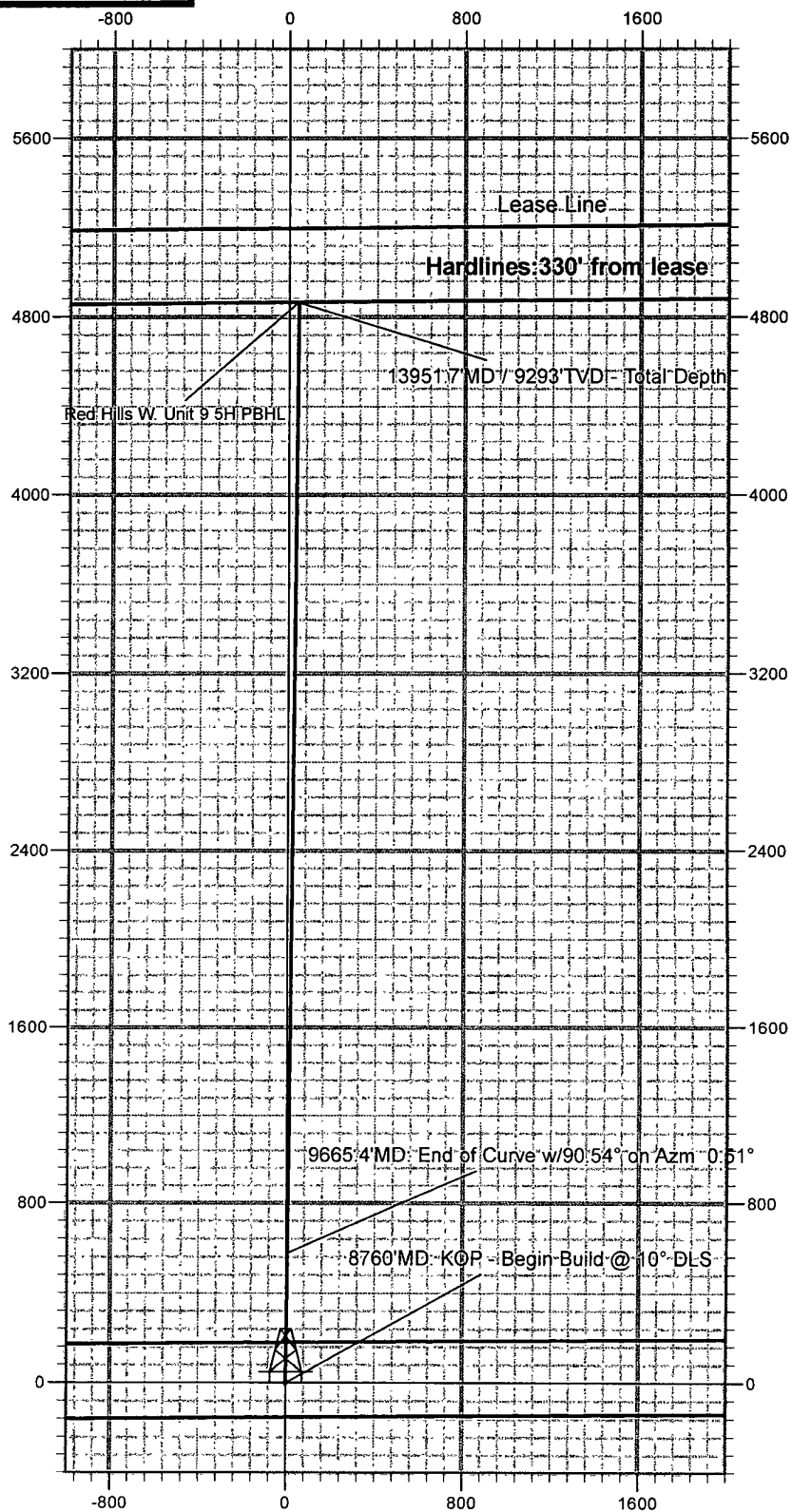
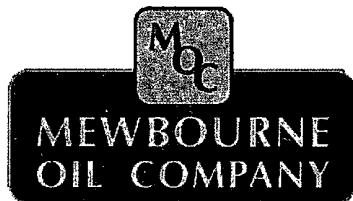
Database:	EDM 5000.1.Single User.Db	Local Co-ordinate Reference:	Well Red Hills West Unit 9 #5H
Company:	Mewbourne Oil Co	TVD Reference:	GL 3203'+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Project:	Eddy County, New Mexico	MD Reference:	GL 3203'+ 20' KB @ 3223.0usft (Patterson UTI Rig)
Site:	Sec 9: T26S - R32E	North Reference:	Grid
Well:	Red Hills West Unit 9 #5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Red Hills West '9' Federal Com 5H		
Design:	Design #1		

Design Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
Red Hills W. Unit 9 5H P	- plan hits target center - Point	0.00	0.00	9,293.0	4,864.2	43.6	387,584.99	701,595.77	32° 3' 50.096 N 103° 40' 57.243 W
Red Hills W. Unit 9 5H L:	- plan misses target center by 797070.2usft at 13951.7usft MD (9293.0 TVD, 4864.2 N, 43.6 E) - Point	0.00	0.00	9,333.0	383,290.8	701,552.2	766,011.58	1,403,104.35	33° 4' 15.452 N 101° 23' 8.861 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,760.1	8,760.1	0.0	0.0	8760'MD: KOP - Begin Build @ 10° DLS
9,665.4	9,333.0	578.2	5.2	9665.4'MD: End of Curve w/90.54° on Azm. 0.51°
13,951.7	9,293.0	4,864.2	43.6	13951.7'MD / 9293'TVD - Total Depth

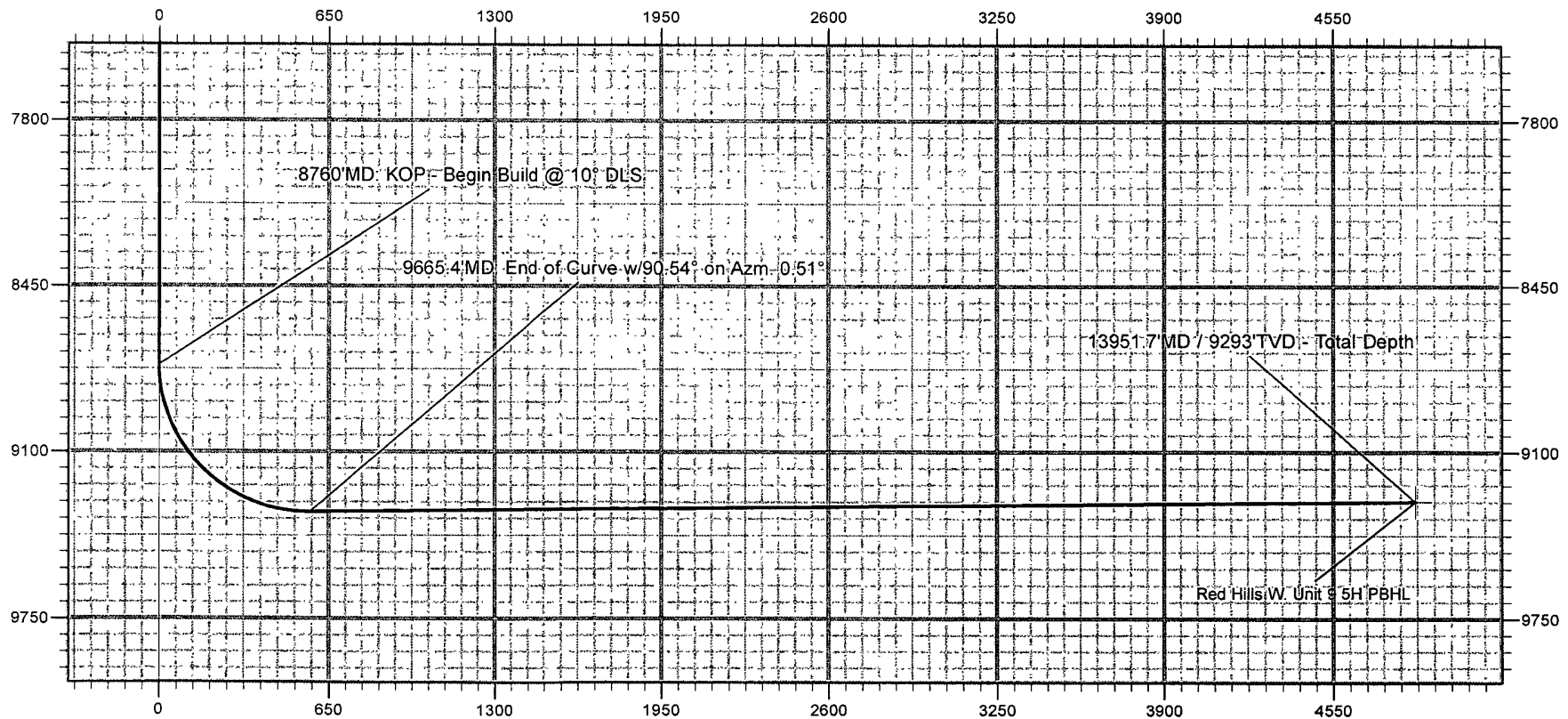
Mewbourne Oil Co

Red Hills West Unit 9 #5H
Eddy County, New Mexico
Quote # 120118



Mewbourne Oil Co

Red Hills West Unit 9 #5H
Eddy County, New Mexico
Quote # 120118



Vertical Section at 0.51° (650 usft/in)

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Red Hills West Unit "9" #5H

150' FSL & 1650' FWL (SHL)

Sec 9-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 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 an 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

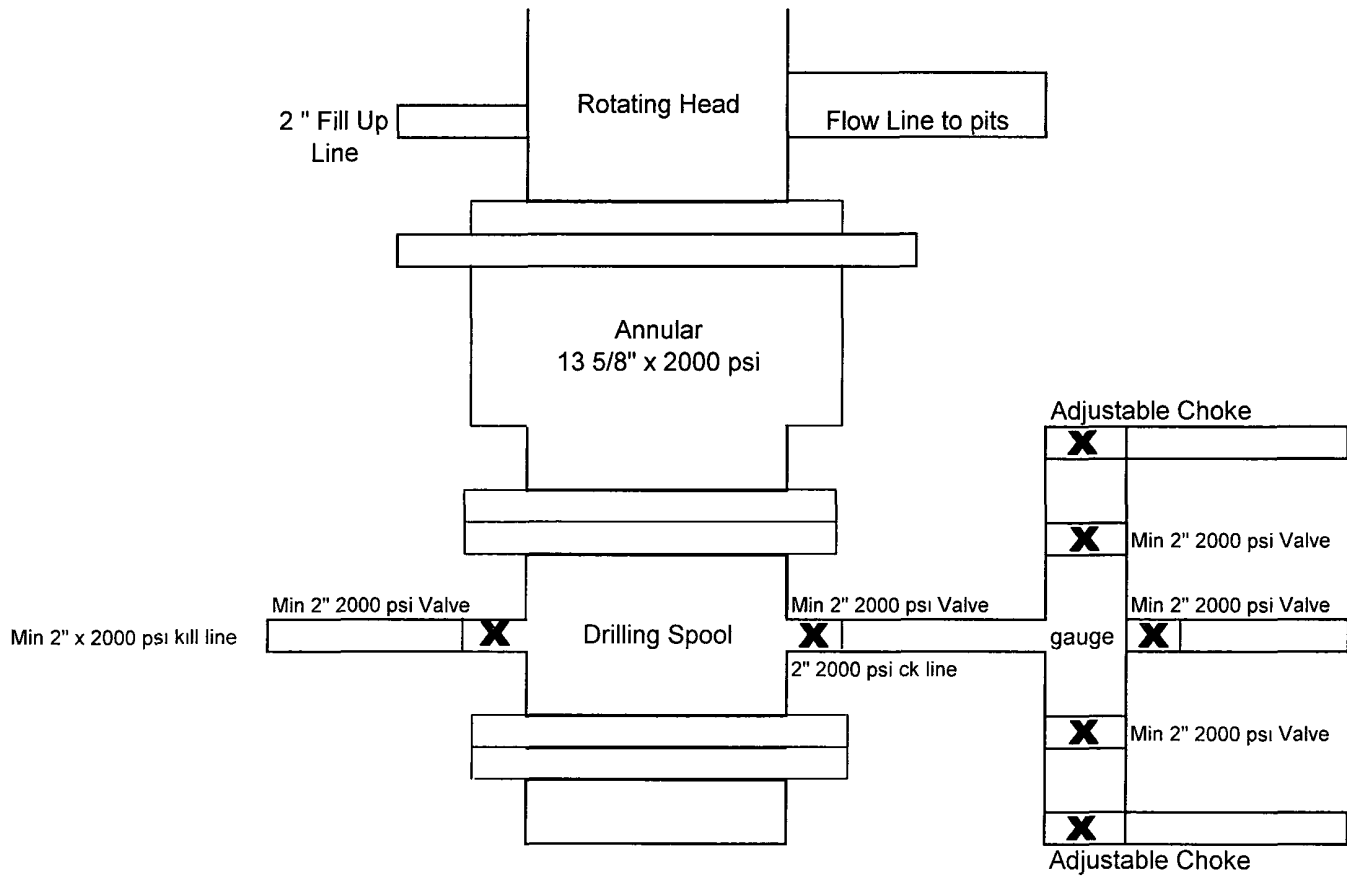


Exhibit #2

Red Hills West Unit "9" #5H
 150' FSL & 1650' FWL
 Sec 9-T26S-R32E
 Lea, County
 New Mexico

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

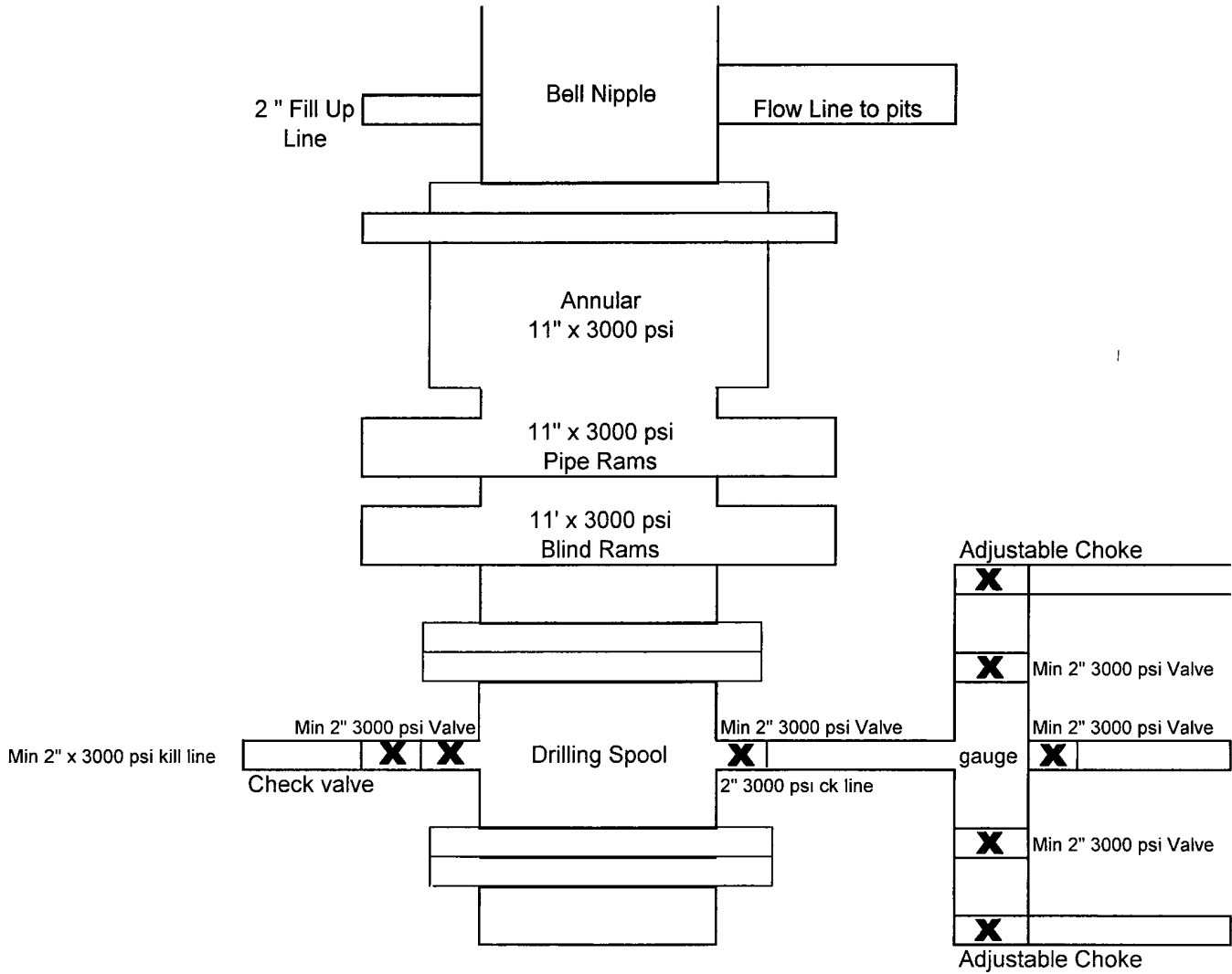
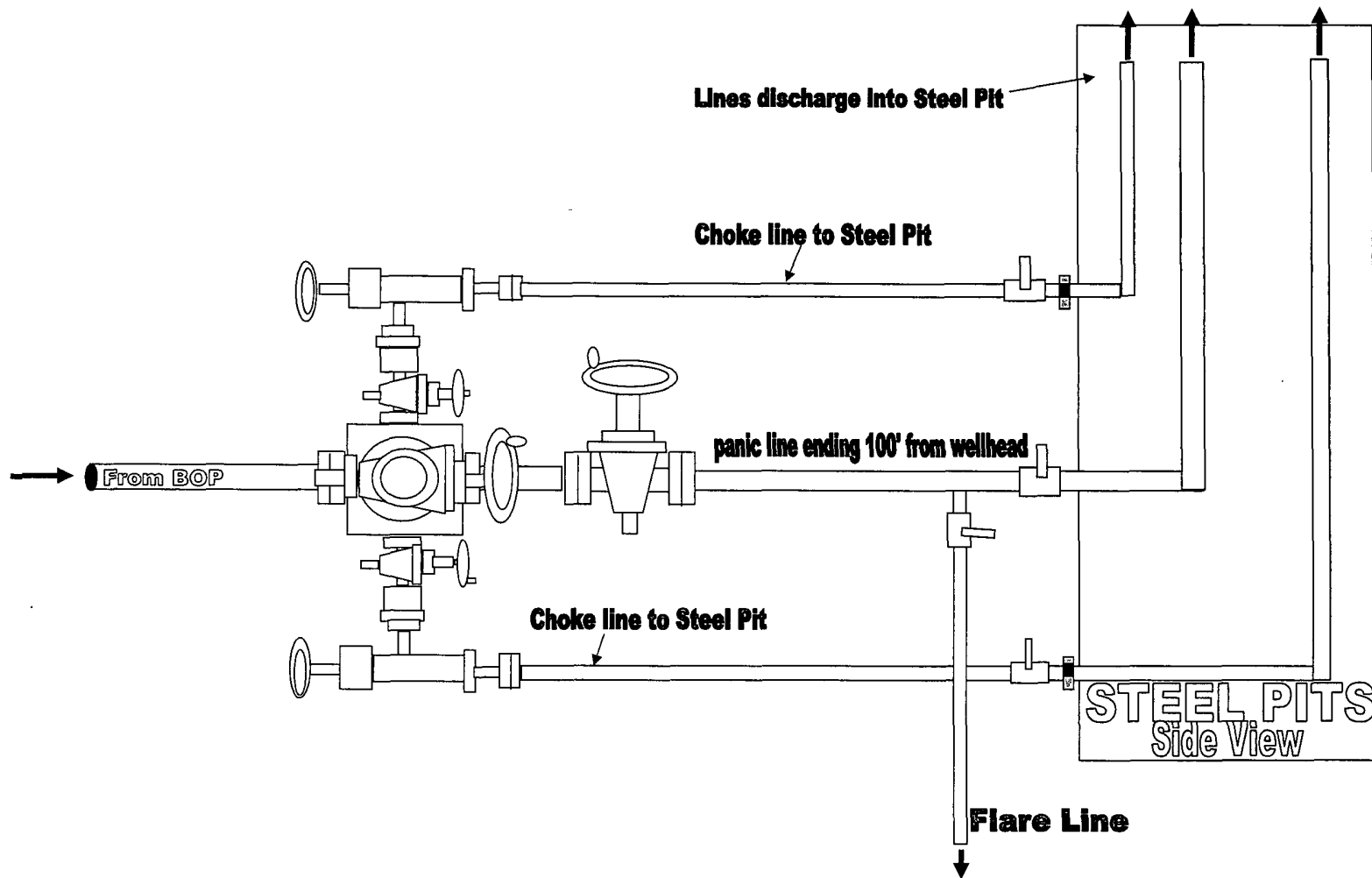


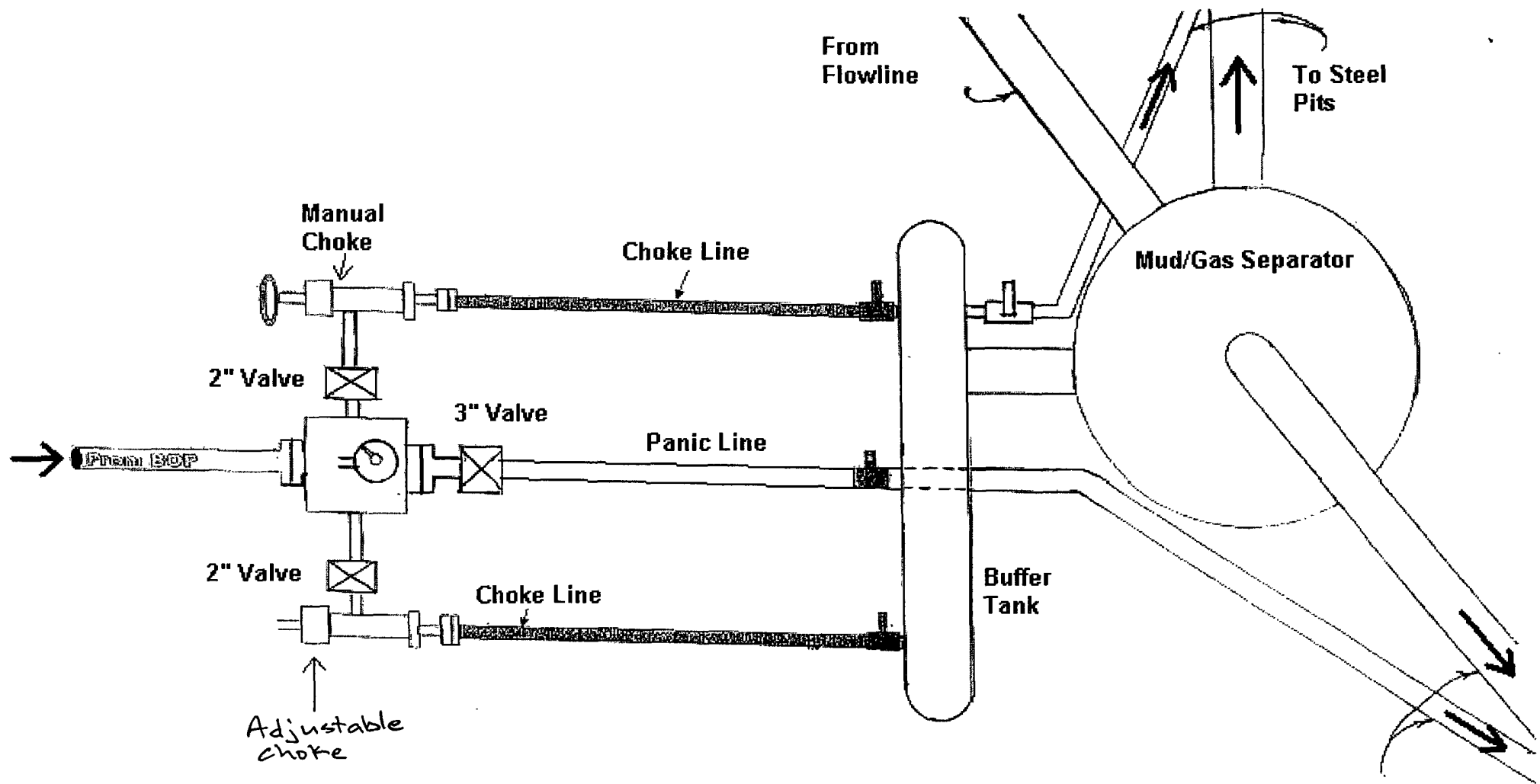
Exhibit #2

Red Hills West Unit "9" #5H
150' FSL & 1650' FWL
Sec 9-T26S-R32E
Lea, County
New Mexico



3000# BOP manifold system for Exhibit 2 & 2A

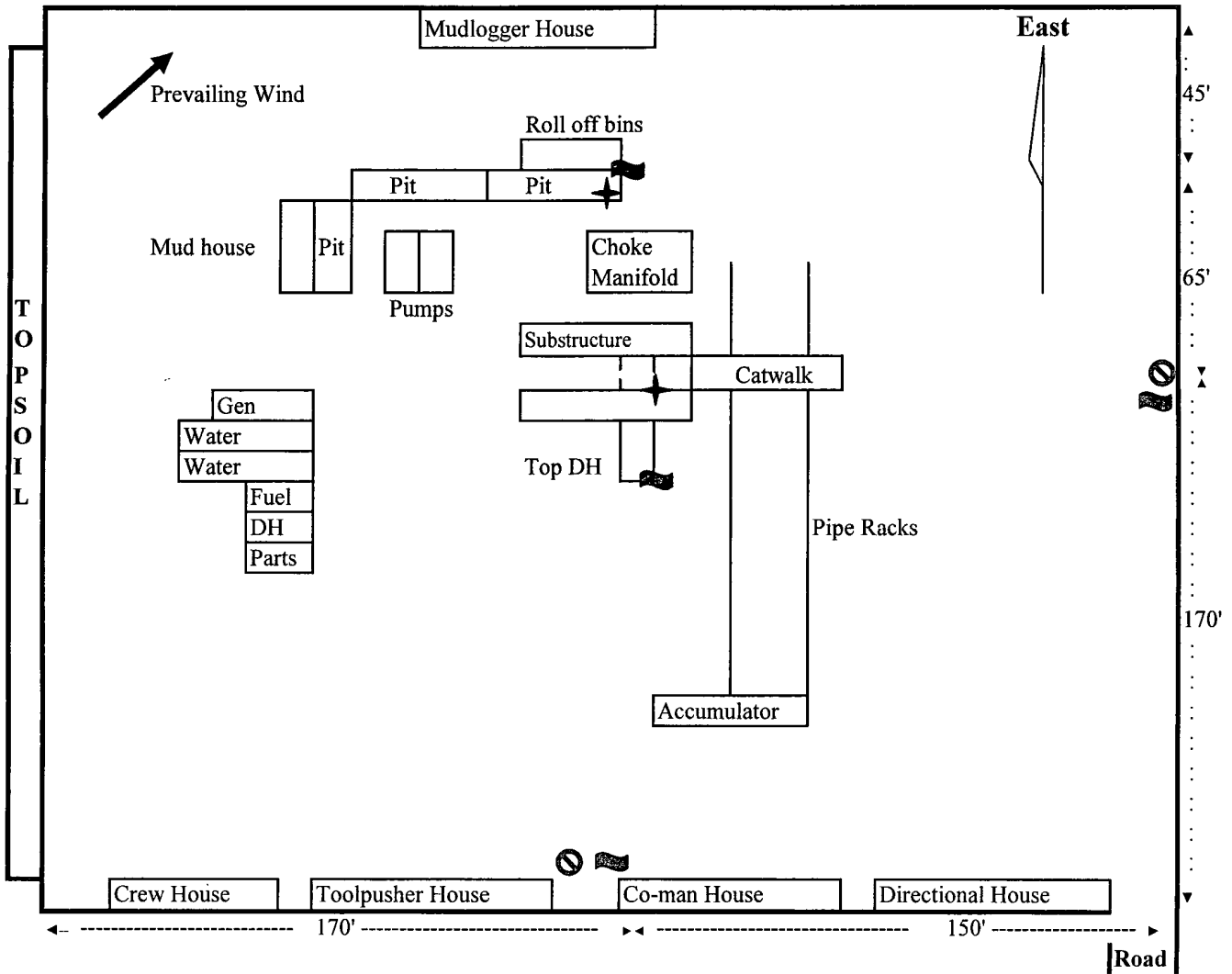
Red Hills West Unit "9" #5H



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

Red Hills West Unit "9" #5H

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



Legend	
	Wellbore Location
	Briefing Area w/ SCBA
	H2S Sensors
	Windscreens

Mewbourne Oil Company	
Red Hills West Unit "9" #5H	
150' FSL & 1650' FWL	
Sec 9-T26S-R32E	
Lea County, NM	