

12-420

Form 160-2
(August 2008)HOBBS OCD
JUN 04 2012
RECEIVED

OCD-HOBBS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 20105 Lease Serial No.
NM-105560 & NM-120910
6 If Indian, Allottee or Tribe Name1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator Mewbourne Oil Company

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

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

At surface 150' FSL & 2250' FWL (Unit N)

At proposed prod. zone 330' FNL & 2250' FWL (Unit C)

UNORTHODOX
LOCATION14. Distance in miles and direction from nearest town or post office*
30 miles West of Jai, NM7 If Unit or CA Agreement, Name and No.
Red Hills West Unit, NM125386X8. Lease Name and Well No.
Red Hills West Unit "8" #6H <38319>9 API Well No.
30-025-40600610 Field and Pool, or Exploratory
Wildcat Bone Spring 9783811. Sec., T. R. M. or Blk. and Survey or Area
Sec 8, T26S, R32E12 County or Parish
Lea13 State
NM15. Distance from proposed*
location to nearest
property or lease line, ft
(Also to nearest drig. unit line, if any)

150'

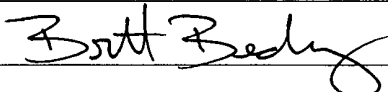
16. No. of acres in lease
120 & 36017 Spacing Unit dedicated to this well
16018. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft756' West of the
Highland Fed #119 Proposed Depth
13497' MD
8879' TVD20 BLM/BIA Bond No. on file
NM 1693, Nationwide21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3186' GL22. Approximate date work will start*
05/01/201223. Estimated duration
40 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:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)

- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature Name (Printed/Typed)
Brett BednarzDate
02/29/2012

Title

Petroleum Engineer

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

K 06/05/2012

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.

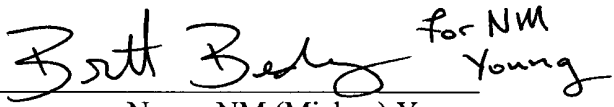
Lease Number: Lease Number # NM-105560 & NM-120190

Legal Description of Land: Section 8, T-26S, R-32E Lea County, New Mexico.
Location @ 150' FSL & 2250' FWL.

Formation (if applicable): Bone Springs

Bond Coverage: \$150,000

BLM Bond File: NM1693, Nationwide

Authorized Signature:  ^{for NM}
Name: NM (Mickey) Young
Title: District Manager
Date: 2-15-12

Drilling Program
Mewbourne Oil Company
 Red Hills West Unit "8" #6H
 150' FSL & 2250' FWL (SHL)
 Sec 8-T26S-R32E
 Lea County, New Mexico

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

Rustler	1000'
Top Salt	1400'
Base Salt	4250'
Lamar	4400'
*Delaware	4420'
*Bone Springs	8400'

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 1025' 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 8306' & kick off to horizontal @ 8879' TVD. The well will be drilled to 13497' MD (8854' TVD). See attached directional plan.

5. Proposed casing and cementing program:

*Per Operator
5/24/12
LRW*

A. Casing Program:						
<u>Hole Size</u>	<u>Casing</u>	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>	
17 1/2"	13 3/8" (new)	48#	H40	0'-1025'	ST&C	
12 1/4"	9 5/8" (new)	36# 40# 40#	J-55 J-55 N-80	0-3240' 3240-4240' 4240-4376'	STC LTC LTC	
8 3/4"	7" (new)	26#	P110	0'-8306' MD	LT&C	
8 3/4"	7" (new)	26#	P110	8306'-9209' MD	BT&C	
6 1/8"	4 1/2" (new)	11.6#	P110	9009'-13497' 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:

- i. Surface Casing: 540 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.
- See COA ii. Intermediate Casing: 576 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: 460 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 calc to tieback 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' - 1025' 1060	FW spud mud	8.6-9.0	32-34	NA
1025' - 4400' 4370	Brine Water	10.0-10.2	28-30	NA
4400' - 8306' (KOP)	Cut Brine	8.3-8.6	28-30	NA
8306' - 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' (8206') to surface. GR from 8206' 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 8, T26S, R32E

Red Hills West 8 Unit "8" #6H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

07 September, 2011



DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Hills West 8 Federal Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3204 0usft (Patterson #45)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3204.0usft (Patterson #45)
Site:	Sec 8, T26S, R32E	North Reference:	Grid
Well:	Red Hills West 8 Federal Com #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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 8, T26S, R32E		
Site Position:		Northing:	382,678.18 usft
From:	Map	Easting:	696,810.11 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 1.821 N
		Longitude:	103° 41' 53.190 W
		Grid Convergence:	0.34 °

Well:	Red Hills West 8 Federal Com #4H					
Well Position	+N/-S	0.0 usft	Northing:	382,678.18 usft	Latitude:	32° 3' 1.821 N
	+E/-W	0.0 usft	Easting:	696,810.11 usft	Longitude:	103° 41' 53.190 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,186.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/7/2011	7 60	60 00	48,476

Design:	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0 0	359.78

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	
8,306.1	0 00	0.00	8,306.1	0 0	0 0	0.00	0.00	0.00	0.00	
9,209.4	90.33	359.78	8,879.0	576.3	-2.2	10 00	10 00	-0.02	359.78	
13,497.3	90.33	359.78	8,854.0	4,864.1	-18.4	0 00	0.00	0.00	0 00	PBHL-Red Hills West

DDC
Well Planning Report



Database:	EDM 5000 1'Single User.Db	Local Co-ordinate Reference:	Well Red Hills West 8 Federal Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3204.0usft (Patterson #45)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3204.0usft (Patterson #45)
Site:	Sec 8, T26S, R32E	North Reference:	Grid
Well:	Red Hills West 8 Federal Com #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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	
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	

DDC
Well Planning Report



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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	
KOP: Build 10°/100'										
8,306.1	0.00	0.00	8,306.1	0.0	0.0	0.0	0.00	0.00	0.00	
8,350.0	4.39	359.78	8,350.0	1.7	0.0	1.7	10.00	10.00	0.00	
8,400.0	9.39	359.78	8,399.6	7.7	0.0	7.7	10.00	10.00	0.00	
8,450.0	14.39	359.78	8,448.5	18.0	-0.1	18.0	10.00	10.00	0.00	
8,500.0	19.39	359.78	8,496.3	32.5	-0.1	32.5	10.00	10.00	0.00	
8,550.0	24.39	359.78	8,542.7	51.1	-0.2	51.1	10.00	10.00	0.00	
8,600.0	29.39	359.78	8,587.3	73.7	-0.3	73.7	10.00	10.00	0.00	
8,650.0	34.39	359.78	8,629.7	100.1	-0.4	100.1	10.00	10.00	0.00	
8,700.0	39.39	359.78	8,669.7	130.1	-0.5	130.2	10.00	10.00	0.00	
8,750.0	44.39	359.78	8,706.9	163.5	-0.6	163.5	10.00	10.00	0.00	
8,800.0	49.39	359.78	8,741.1	200.0	-0.8	200.0	10.00	10.00	0.00	
8,850.0	54.39	359.78	8,771.9	239.3	-0.9	239.3	10.00	10.00	0.00	
8,900.0	59.39	359.78	8,799.2	281.2	-1.1	281.2	10.00	10.00	0.00	
8,950.0	64.39	359.78	8,822.8	325.3	-1.2	325.3	10.00	10.00	0.00	
9,000.0	69.39	359.78	8,842.4	371.3	-1.4	371.3	10.00	10.00	0.00	
9,050.0	74.39	359.78	8,857.9	418.8	-1.6	418.8	10.00	10.00	0.00	
9,100.0	79.39	359.78	8,869.3	467.5	-1.8	467.5	10.00	10.00	0.00	
9,150.0	84.39	359.78	8,876.3	516.9	-2.0	516.9	10.00	10.00	0.00	
9,200.0	89.39	359.78	8,879.0	566.9	-2.1	566.9	10.00	10.00	0.00	
EOC 9209' MD, 90.33° Inc., 359.78° Azm., 8879' TVD										
9,209.4	90.33	359.78	8,879.0	576.3	-2.2	576.3	10.00	10.00	0.00	
9,300.0	90.33	359.78	8,878.5	666.9	-2.5	666.9	0.00	0.00	0.00	
9,400.0	90.33	359.78	8,877.9	766.8	-2.9	766.9	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 8 Federal Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3204.0usft (Patterson #45)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3204.0usft (Patterson #45)
Site:	Sec 8, T26S, R32E	North Reference:	Grid
Well:	Red Hills West 8 Federal Com #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
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)
9,500.0	90.33	359.78	8,877.4	866.8	-3.3	866.9	0.00	0.00	0.00
9,600.0	90.33	359.78	8,876.8	966.8	-3.7	966.9	0.00	0.00	0.00
9,700.0	90.33	359.78	8,876.2	1,066.8	-4.0	1,066.8	0.00	0.00	0.00
9,800.0	90.33	359.78	8,875.6	1,166.8	-4.4	1,166.8	0.00	0.00	0.00
9,900.0	90.33	359.78	8,875.0	1,266.8	-4.8	1,266.8	0.00	0.00	0.00
10,000.0	90.33	359.78	8,874.4	1,366.8	-5.2	1,366.8	0.00	0.00	0.00
10,100.0	90.33	359.78	8,873.8	1,466.8	-5.5	1,466.8	0.00	0.00	0.00
10,200.0	90.33	359.78	8,873.3	1,566.8	-5.9	1,566.8	0.00	0.00	0.00
10,300.0	90.33	359.78	8,872.7	1,666.8	-6.3	1,666.8	0.00	0.00	0.00
10,400.0	90.33	359.78	8,872.1	1,766.8	-6.7	1,766.8	0.00	0.00	0.00
10,500.0	90.33	359.78	8,871.5	1,866.8	-7.1	1,866.8	0.00	0.00	0.00
10,600.0	90.33	359.78	8,870.9	1,966.8	-7.4	1,966.8	0.00	0.00	0.00
10,700.0	90.33	359.78	8,870.3	2,066.8	-7.8	2,066.8	0.00	0.00	0.00
10,800.0	90.33	359.78	8,869.8	2,166.8	-8.2	2,166.8	0.00	0.00	0.00
10,900.0	90.33	359.78	8,869.2	2,266.8	-8.6	2,266.8	0.00	0.00	0.00
11,000.0	90.33	359.78	8,868.6	2,366.8	-9.0	2,366.8	0.00	0.00	0.00
11,100.0	90.33	359.78	8,868.0	2,466.8	-9.3	2,466.8	0.00	0.00	0.00
11,200.0	90.33	359.78	8,867.4	2,566.8	-9.7	2,566.8	0.00	0.00	0.00
11,300.0	90.33	359.78	8,866.8	2,666.8	-10.1	2,666.8	0.00	0.00	0.00
11,400.0	90.33	359.78	8,866.3	2,766.8	-10.5	2,766.8	0.00	0.00	0.00
11,500.0	90.33	359.78	8,865.7	2,866.8	-10.8	2,866.8	0.00	0.00	0.00
11,600.0	90.33	359.78	8,865.1	2,966.8	-11.2	2,966.8	0.00	0.00	0.00
11,700.0	90.33	359.78	8,864.5	3,066.8	-11.6	3,066.8	0.00	0.00	0.00
11,800.0	90.33	359.78	8,863.9	3,166.8	-12.0	3,166.8	0.00	0.00	0.00
11,900.0	90.33	359.78	8,863.3	3,266.8	-12.4	3,266.8	0.00	0.00	0.00
12,000.0	90.33	359.78	8,862.7	3,366.8	-12.7	3,366.8	0.00	0.00	0.00
12,100.0	90.33	359.78	8,862.2	3,466.8	-13.1	3,466.8	0.00	0.00	0.00
12,200.0	90.33	359.78	8,861.6	3,566.8	-13.5	3,566.8	0.00	0.00	0.00
12,300.0	90.33	359.78	8,861.0	3,666.8	-13.9	3,666.8	0.00	0.00	0.00
12,400.0	90.33	359.78	8,860.4	3,766.8	-14.2	3,766.8	0.00	0.00	0.00
12,500.0	90.33	359.78	8,859.8	3,866.8	-14.6	3,866.8	0.00	0.00	0.00
12,600.0	90.33	359.78	8,859.2	3,966.8	-15.0	3,966.8	0.00	0.00	0.00
12,700.0	90.33	359.78	8,858.7	4,066.8	-15.4	4,066.8	0.00	0.00	0.00
12,800.0	90.33	359.78	8,858.1	4,166.8	-15.8	4,166.8	0.00	0.00	0.00
12,900.0	90.33	359.78	8,857.5	4,266.8	-16.1	4,266.8	0.00	0.00	0.00
13,000.0	90.33	359.78	8,856.9	4,366.8	-16.5	4,366.8	0.00	0.00	0.00
13,100.0	90.33	359.78	8,856.3	4,466.8	-16.9	4,466.8	0.00	0.00	0.00
13,200.0	90.33	359.78	8,855.7	4,566.8	-17.3	4,566.8	0.00	0.00	0.00
13,300.0	90.33	359.78	8,855.2	4,666.8	-17.6	4,666.8	0.00	0.00	0.00
13,400.0	90.33	359.78	8,854.6	4,766.8	-18.0	4,766.8	0.00	0.00	0.00
TD @ 13497' MD/8854' TVD - PBHL-Red Hills West 8 Federal Com #4H									
13,497.3	90.33	359.78	8,854.0	4,864.1	-18.4	4,864.1	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target									
Shape									
PBHL-Red Hills West 8 I	0.00	0.00	8,854.0	4,864.1	-18.4	387,542.26	696,791.71	32° 3' 49.957 N	103° 41' 53.071 W
- plan hits target center									
- Point									

DDC
Well Planning Report



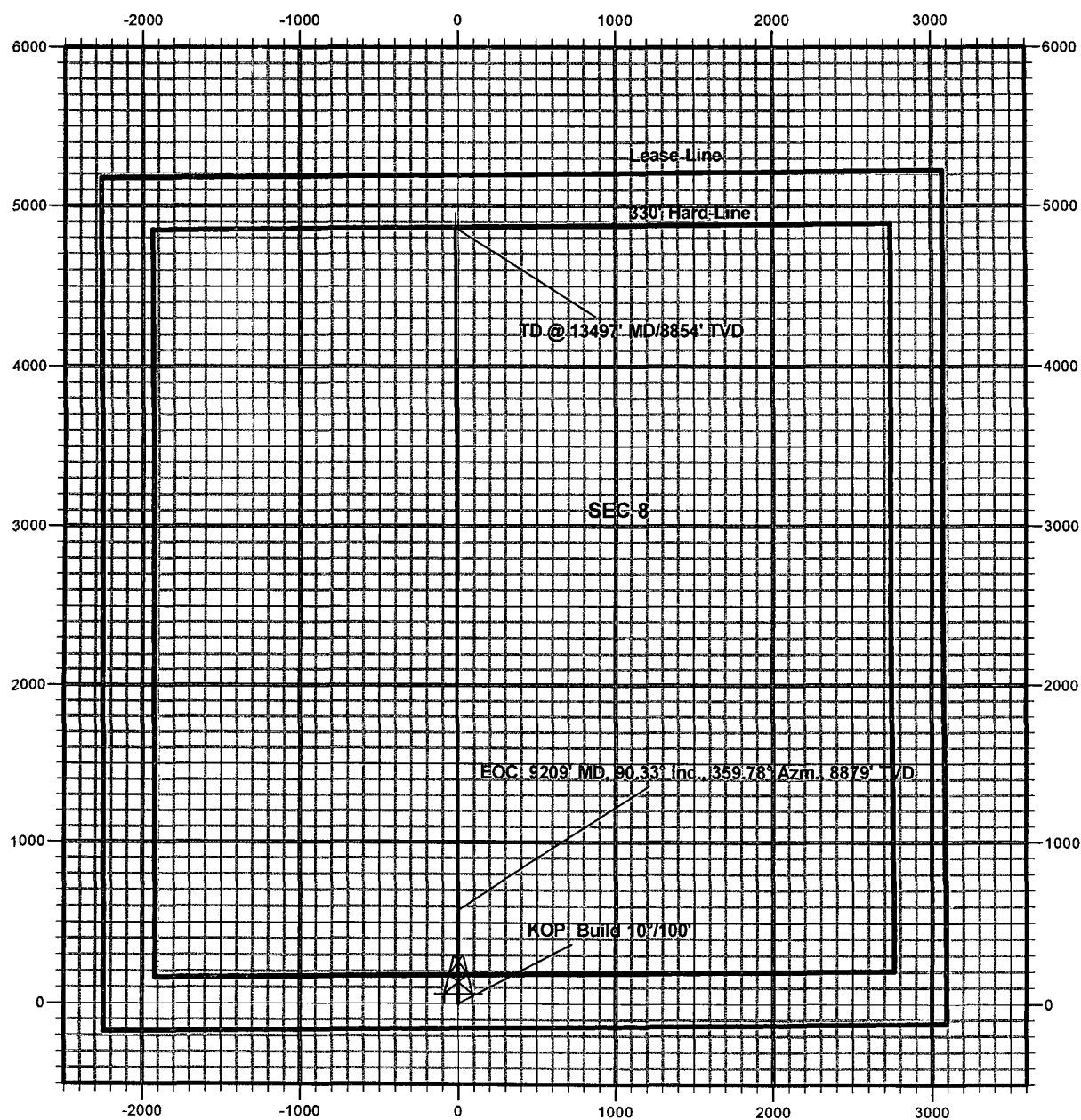
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Red Hills West 8 Federal Com #4H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3204.0usft (Patterson #45)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3204.0usft (Patterson #45)
Site:	Sec 8, T26S, R32E	North Reference:	Grid
Well:	Red Hills West 8 Federal Com #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,306.1	8,306.1	0.0	0.0	KOP. Build 10"/100'
9,209.4	8,879.0	576.3	-2.2	EOC: 9209' MD, 90.33° Inc., 359 78° Azm, 8879' TVD
13,497.3	8,854.0	4,864.1	-18.4	TD @ 13497' MD/8854' TVD

Mewbourne Oil Company

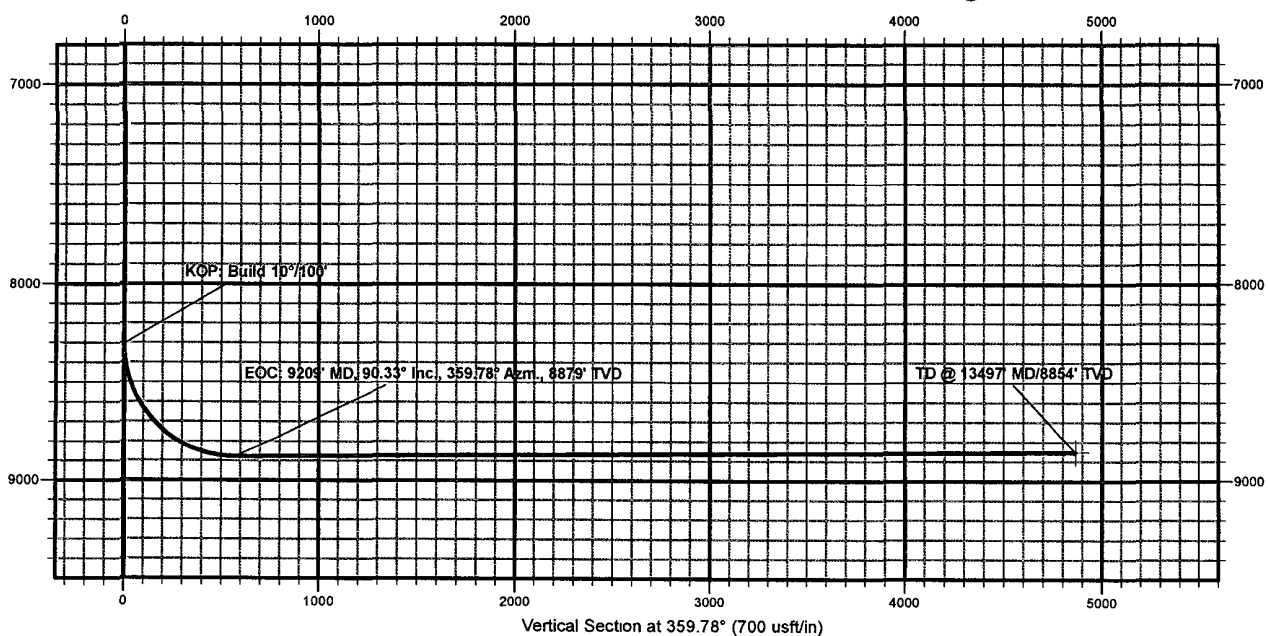


Eddy County, New Mexico
Red Hills West 8 Federal Com #4H
Design #1



Mewbourne Oil Company

Eddy County, New Mexico
Red Hills West 8 Federal Com #4H
Design #1



Notes Regarding Blowout Preventer

Mewbourne Oil Company

Red Hills West Unit "8" #6H

150' FSL & 2250' FWL (SHL)

Sec 8-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 and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

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

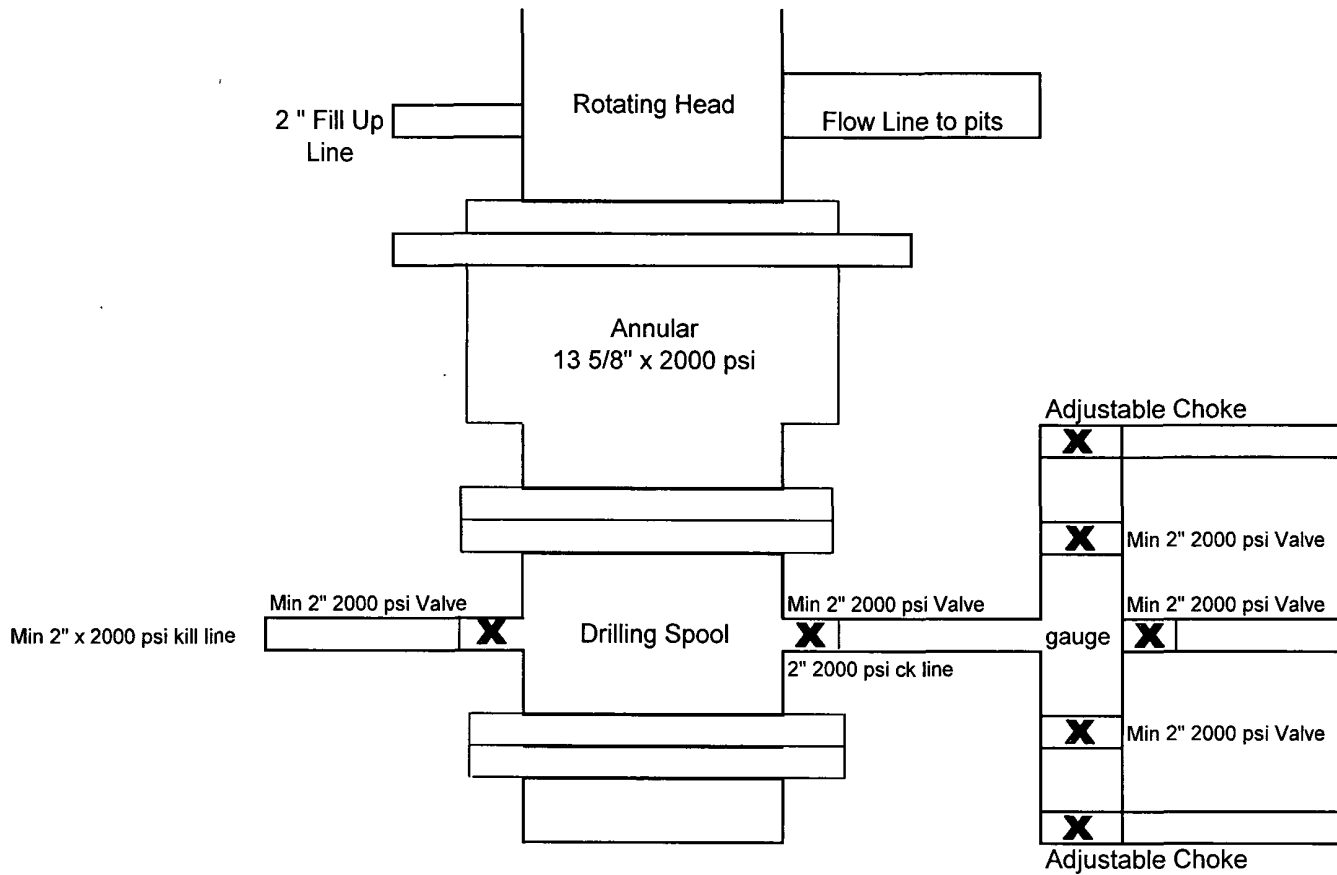


Exhibit #2

Red Hills West Unit "8" #6H
 150' FSL & 2250' FWL
 Sec 8-T26S-R32E
 Lea, County
 New Mexico

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

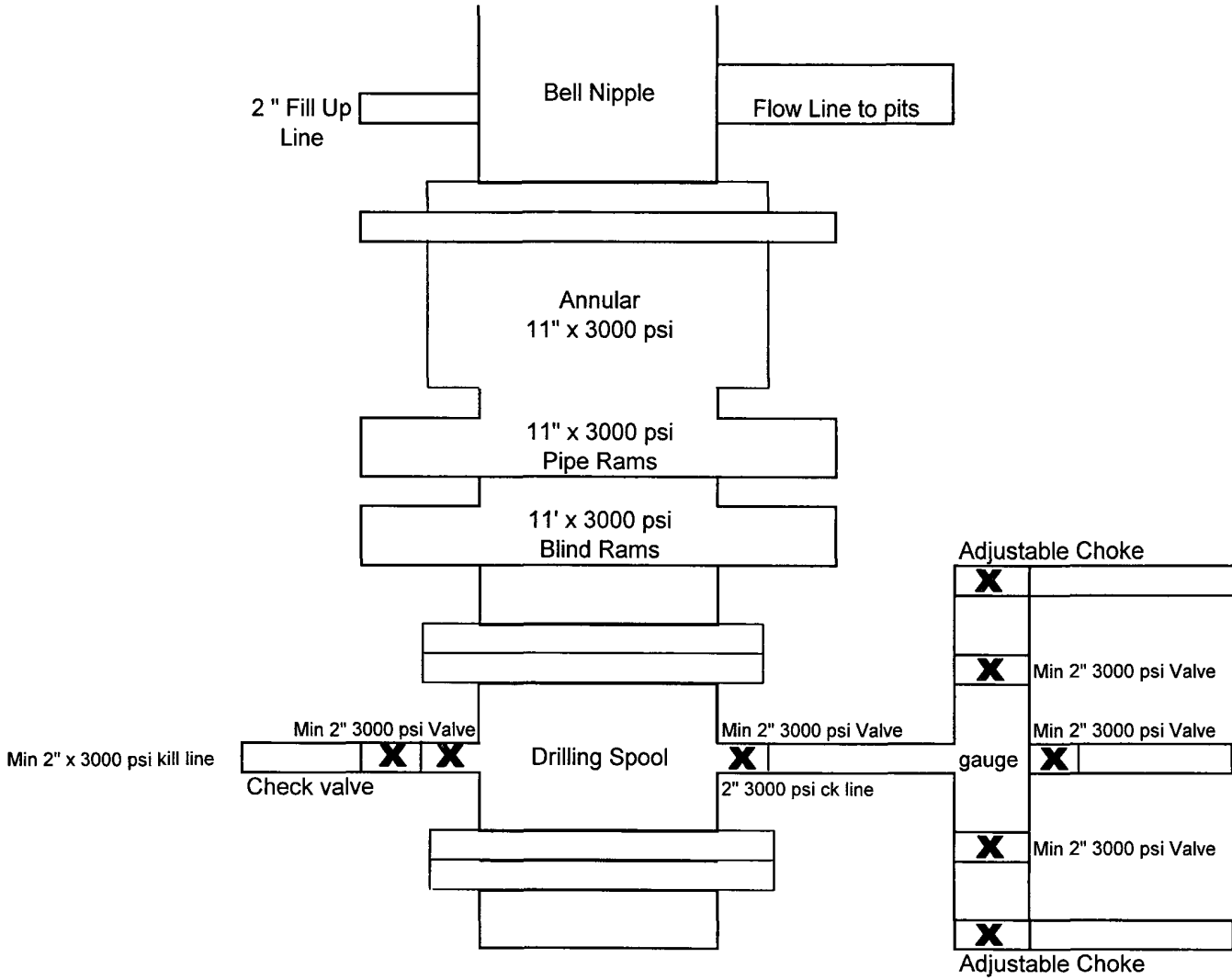
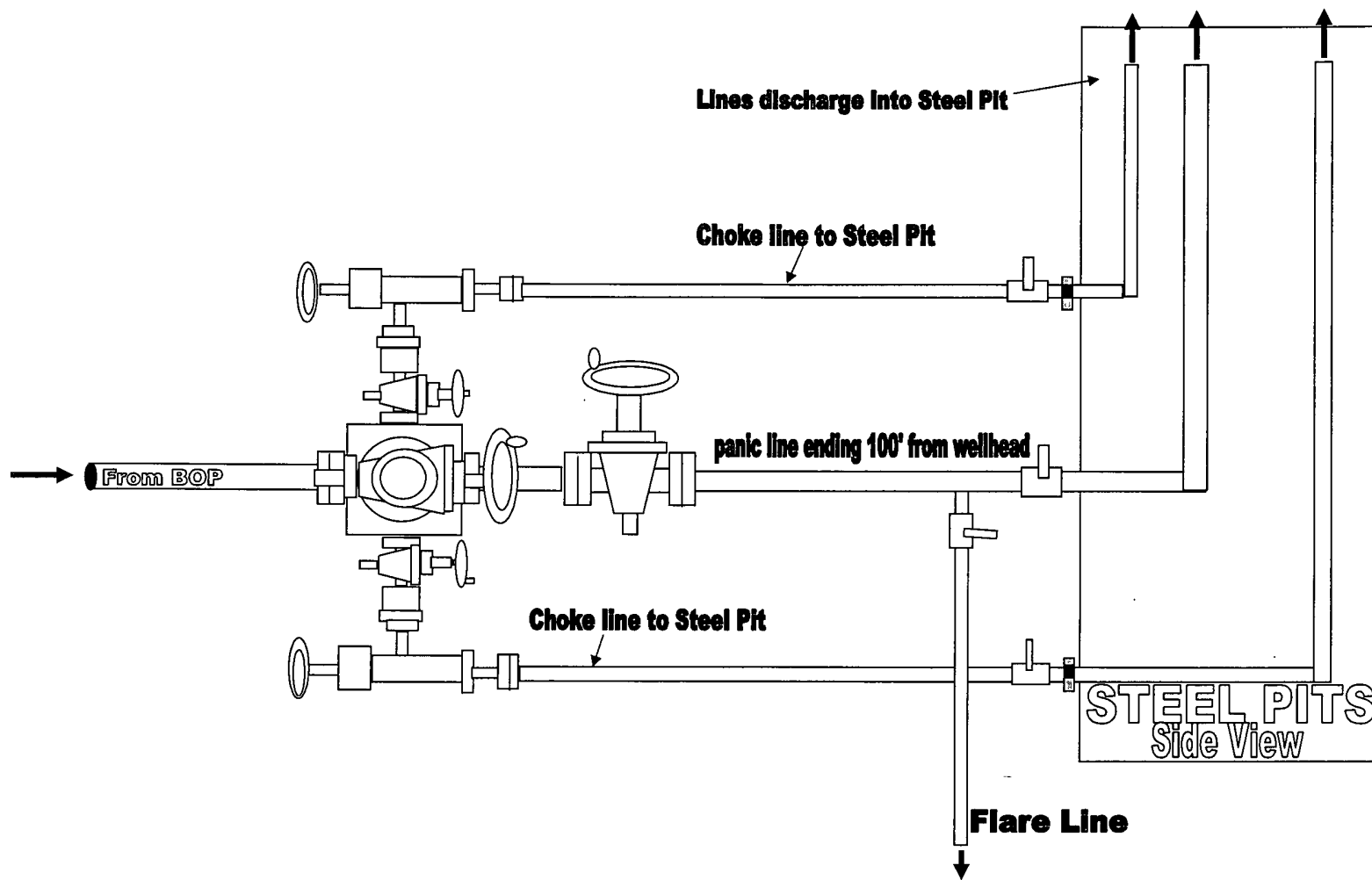


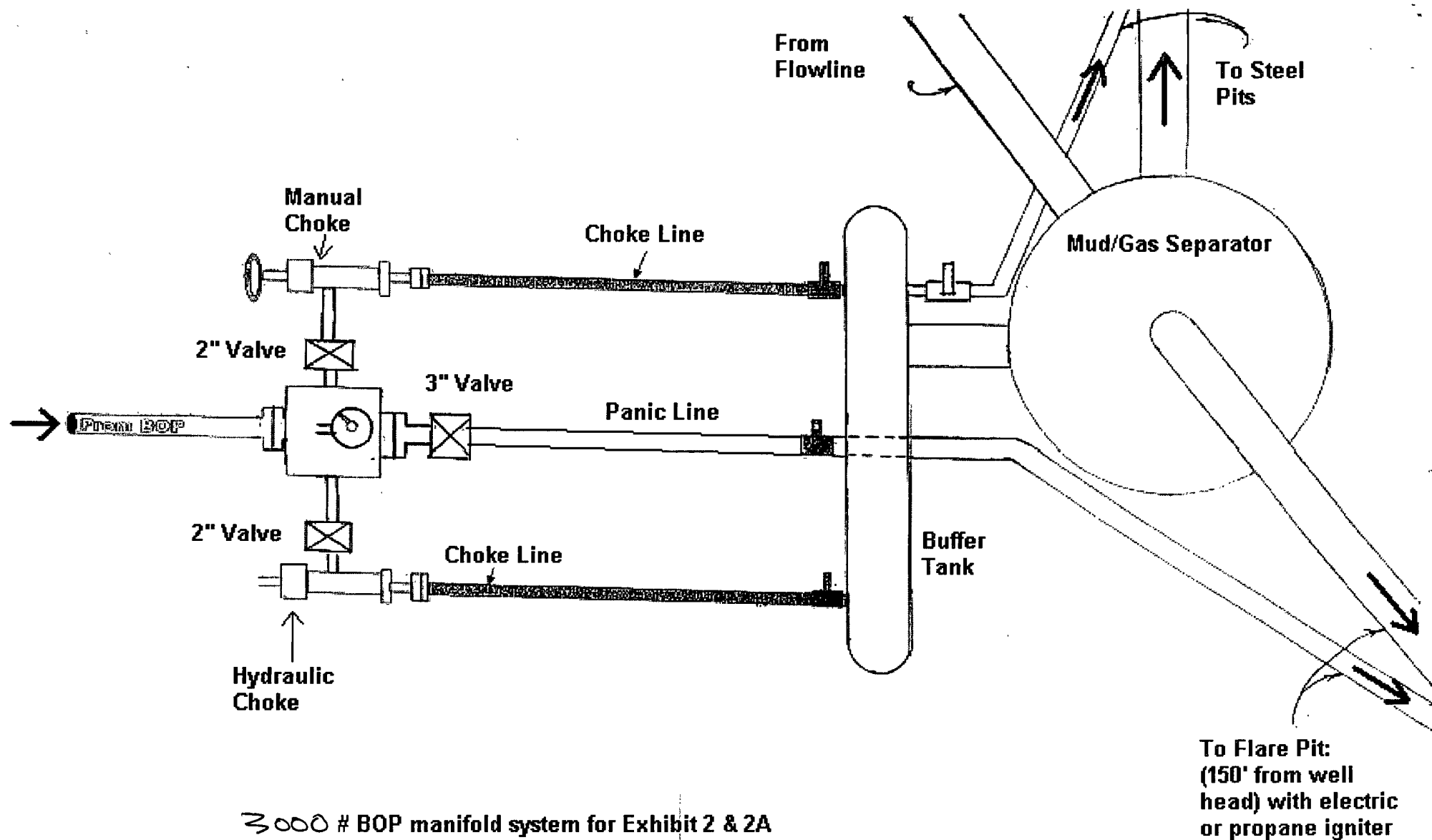
Exhibit #2

Red Hills West Unit "8" #6H
 150' FSL & 2250' FWL
 Sec 8-T26S-R32E
 Lea, County
 New Mexico



3000# BOP manifold system for Exhibit 2 & 2A

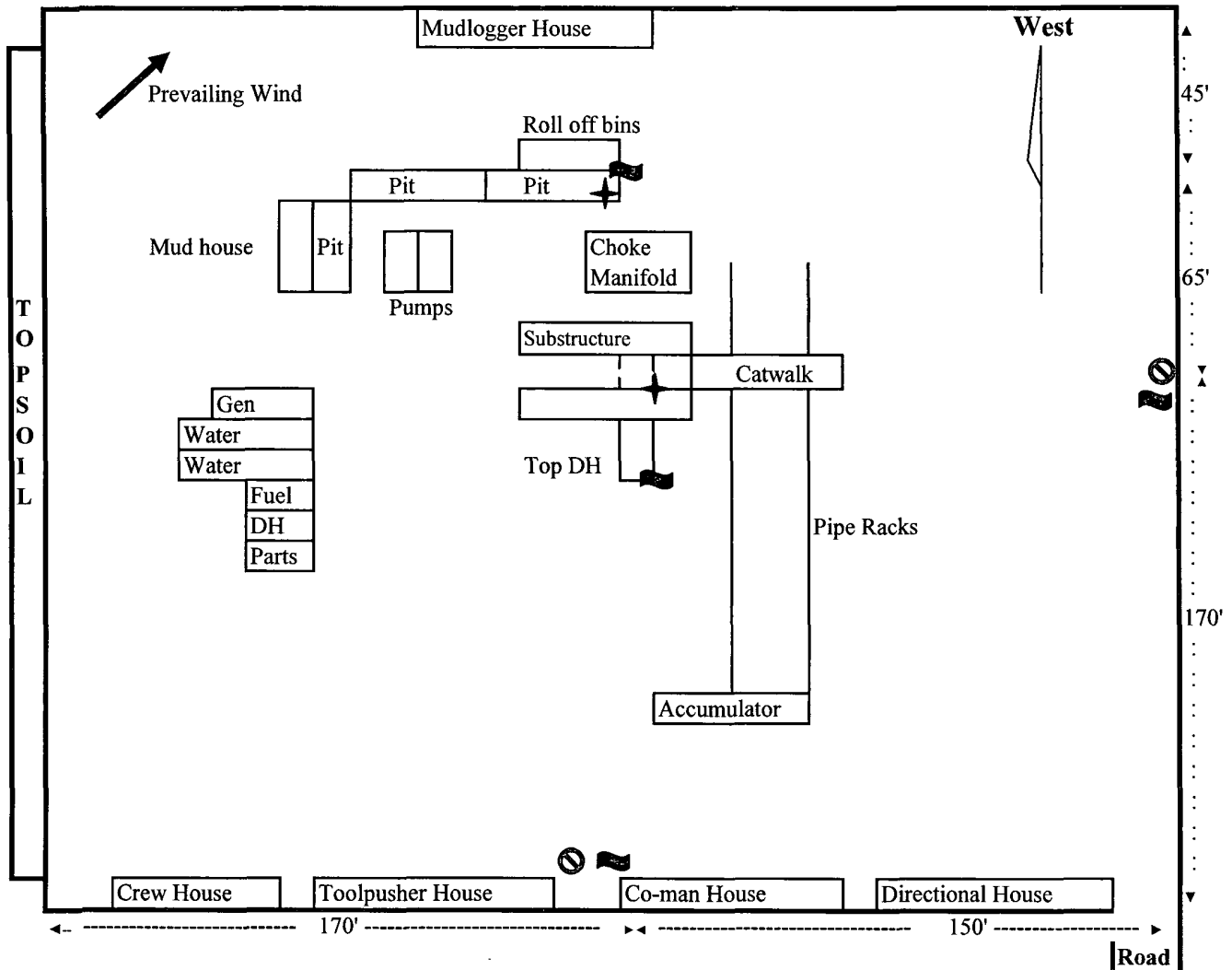
Red Hills West Unit "8" #6 H



Red Hills West Unit "8" #6H

Exhibit 5

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



Legend	
	Wellbore Location
	Briefing Area w/ SCBA
	H2S Sensors
	Windsocks

Mewbourne Oil Company	
Red Hills West Unit "8" #6H	
150' FSL & 2250' FWL	
Sec 8-T26S-R32E	
Lea County, NM	