

OCD-HOBBS

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

SEP 17 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		7 If Unit or CA Agreement, Name and No.	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. Salado Draw "9" AP Fed Com #1H 39450	
2. Name of Operator Mewbourne Oil Company		9. API Well No. 30-025-40755 97900	
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) 575-393-5905	10. Field and Pool, or Exploratory Wildcat RED HILLS; UPPER BE SHALE	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 310' FNL & 380' FEL At proposed prod. zone 330' FSL & 380' FEL		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 9 T26S R33E	
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) 310'	16. No. of acres in lease 320	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 200' from MOC's Salado Draw "9" Federal #2H	19. Proposed Depth 13,617' (MD) 9243' (TVD)	20. BLM/BIA Bond No. on file NM 1693, Nationwide	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3333' GL	22. Approximate date work will start* 08/01/2012	23. Estimated duration 60 days	

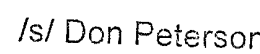
24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) Bradley Bishop	Date 06/28/2012
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Title

Approved by (Signature) 	Name (Printed/Typed) /s/ Don Peterson	Date SEP 12 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 Attached

Kx 09/19/12

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

SEP 20 2012

**United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 E Greene Street
Carlsbad, 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: NM-0127-A (SL)

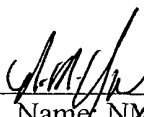
Legal Description of Land: Section 9, T-26S, R-33E Lea County, New Mexico.
Location @ 310' FNL & 380' FEL.

Formation (if applicable): Bone Spring

Bond Coverage: \$150,000

BLM Bond File: NM1693, Nationwide

Authorized Signature: _____



Name: NM (Micky) Young

Title: District Manager

Date: 06/28/12

Drilling Program
Mewbourne Oil Company
 Salado Draw "9" AP Federal Com #1H
 310' FNL & 380' FEL (SHL)
 Sec 9-T26S-R33E
 Lea County, New Mexico

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

Rustler	900'	
Top of Salt	1250'	
Base of Salt	4780'	
T/Lamar (Delaware)	4900'	
*T/Bell Canyon	5060'	
*T/Cherry Canyon	6020'	
Manzanita Marker	6230'	Brushy Canyon 7627' - per operator 7/28/12
*Bone Springs	9010'	
Wolf Camp	will not penetrate	

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

Water	Fresh water is anticipated at 115' and will be protected by setting surface casing at 925' 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 13 5/8" Annular will be installed after running 13 5/8" casing. A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 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. BOPs 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" and 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. Drilling Program:

MOC proposes to drill a vertical wellbore to 8650' & kick off to horizontal @ 9223' TVD. The well will be drilled to 13,617' MD (9243' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

Jel COK	Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
	17 1/2"	13 5/8" (new)	48#	H40	0'-925' 1000'	ST&C
	12 1/4"	9 5/8" (new)	36#	K55	0'-3300'	ST&C
	12 1/4"	9 5/8" (new)	40#	K55	3300'-4300'	ST&C
	12 1/4"	9 5/8" (new)	40#	N80	4300'-4900'	LT&C
	8 3/4"	7" (new)	26#	P110	0-8600' MD	LT&C
	8 3/4"	7" (new)	26#	P110	8600'-9550' MD	BT&C
	6 1/8"	4 1/2" (new)	11.6#	P110	9350'-13,617' 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: 485 sacks Lite "C" (35:65:4) cement w/salt and LCM additives. Yield at 2.05 cuft/sk. 200 sks class "C" w/1% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/20% excess.
 - ii. Intermediate Casing: 800 sacks Lite "C" (35:65:4) cement w/LCM additives. Yield at 2.05 cuft/sk. 200 sks class "C". Yield at 1.34 cuft/sk. Cmt circulated to surface w/20% excess.
 - iii. Production Casing: 300 sacks Lite "H" (35:65:4) cement w/salt, fluid loss, & LCM additives. Yield at 2.45 cuft/sk. 300 sks class "H" w/salt & fluid loss additives. Yield at 1.29 cuft/sk. Cmt calculated to tieback to intermediate csg @ 4700' w/25% excess.
 - iv. Production Liner: This will be a packer/port completion from TD up inside 7" casing with packer type liner hanger.

**Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.*

6. Mud Program:

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-925' / 1600	FW spud mud	8.6-9.0	32-34	NA
925'-4900'	Brine water	10.0	28-30	NA
4900'- 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: CCL/GR/CN from surface to KOP. Gyro from surface to KOP, Directional survey from KOP 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 60 days involved in drilling operations and an additional 20 days involved in completion operations on the project.

Mewbourne Oil Co

Lea County, NM

Sec 9-26S-33E

Salado Draw 9 AP Fed #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

19 June, 2012



DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Salado Draw 9 AP Fed #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3353.0usft (Patterson)
Project:	Lea County, NM	MD Reference:	WELL @ 3353.0usft (Patterson)
Site:	Sec 9-26S-33E	North Reference:	Grid
Well:	Salado Draw 9 AP Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project:	Lea County, NM		
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 9-26S-33E		
Site Position:		Northing:	387,949.15 usft
From:	Map	Easting:	736,630.24 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 51.428 N
		Longitude:	103° 34' 10.104 W
		Grid Convergence:	0.41 °

Well:	Salado Draw 9 AP Fed #1H		
Well Position	+N/-S	0.0 usft	Northing: 387,949.15 usft
	+E/-W	0.0 usft	Easting: 736,630.24 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 3' 51.428 N
			Longitude: 103° 34' 10.104 W
			Ground Level: 3,333.0 usft

Wellbore:	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/19/2012	7.45	60.01	48,420

Design:	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0 0	179 65

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	
8,650.0	0.00	0.00	8,650.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,547.2	89.72	179.65	9,223.0	-570.1	3.4	10.00	10.00	20.02	179.65	
13,616.9	89.72	179.65	9,243.0	-4,639.7	28.1	0.00	0.00	0.00	0.00	PBHL Salado Draw

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Salado Draw 9 AP Fed #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3353.0usft (Patterson)
Project:	Lea County, NM	MD Reference:	WELL @ 3353.0usft (Patterson)
Site:	Sec 9-26S-33E	North Reference:	Grid
Well:	Salado Draw 9 AP Fed #1H	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)	Bull 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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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)	
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	
Build 10°/100' @ 8650' MD										
8,650.0	0.00	0.00	8,650.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	5.00	179.65	8,699.9	-2.2	0.0	2.2	10.00	10.00	0.00	
8,800.0	15.00	179.65	8,798.3	-19.5	0.1	19.5	10.00	10.00	0.00	
8,900.0	25.00	179.65	8,892.1	-53.7	0.3	53.7	10.00	10.00	0.00	
9,000.0	35.00	179.65	8,978.6	-103.6	0.6	103.6	10.00	10.00	0.00	
9,100.0	45.00	179.65	9,055.1	-167.8	1.0	167.8	10.00	10.00	0.00	
9,200.0	55.00	179.65	9,119.3	-244.3	1.5	244.3	10.00	10.00	0.00	
9,300.0	65.00	179.65	9,169.3	-330.8	2.0	330.8	10.00	10.00	0.00	
9,400.0	75.00	179.65	9,203.4	-424.7	2.6	424.7	10.00	10.00	0.00	
9,500.0	85.00	179.65	9,220.8	-523.0	3.2	523.0	10.00	10.00	0.00	
EOB @ 9547' MD / 89.72° Inc / 179.65° Azm / 9223' TVD										
9,547.2	89.72	179.65	9,223.0	-570.1	3.4	570.1	10.00	10.00	0.00	
9,600.0	89.72	179.65	9,223.2	-622.9	3.8	623.0	0.00	0.00	0.00	
9,700.0	89.72	179.65	9,223.7	-722.9	4.4	723.0	0.00	0.00	0.00	
9,800.0	89.72	179.65	9,224.2	-822.9	5.0	823.0	0.00	0.00	0.00	
9,900.0	89.72	179.65	9,224.7	-922.9	5.6	923.0	0.00	0.00	0.00	
10,000.0	89.72	179.65	9,225.2	-1,022.9	6.2	1,023.0	0.00	0.00	0.00	
10,100.0	89.72	179.65	9,225.7	-1,122.9	6.8	1,123.0	0.00	0.00	0.00	
10,200.0	89.72	179.65	9,226.2	-1,222.9	7.4	1,222.9	0.00	0.00	0.00	

DDC Well Planning Report



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Co
Project: Lea County, NM
Site: Sec 9-26S-33E
Well: Salado Draw 9 AP Fed #1H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Salado Draw 9 AP Fed #1H
TVD Reference: WELL @ 3353.0usft (Patterson)
MD Reference: WELL @ 3353.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
10,300.0	89.72	179.65	9,226.7	-1,322.9	8.0	1,322.9	0.00	0.00	0.00
10,400.0	89.72	179.65	9,227.2	-1,422.9	8.6	1,422.9	0.00	0.00	0.00
10,500.0	89.72	179.65	9,227.6	-1,522.9	9.2	1,522.9	0.00	0.00	0.00
10,600.0	89.72	179.65	9,228.1	-1,622.9	9.8	1,622.9	0.00	0.00	0.00
10,700.0	89.72	179.65	9,228.6	-1,722.9	10.4	1,722.9	0.00	0.00	0.00
10,800.0	89.72	179.65	9,229.1	-1,822.9	11.0	1,822.9	0.00	0.00	0.00
10,900.0	89.72	179.65	9,229.6	-1,922.9	11.6	1,922.9	0.00	0.00	0.00
11,000.0	89.72	179.65	9,230.1	-2,022.9	12.2	2,022.9	0.00	0.00	0.00
11,100.0	89.72	179.65	9,230.6	-2,122.9	12.8	2,122.9	0.00	0.00	0.00
11,200.0	89.72	179.65	9,231.1	-2,222.9	13.4	2,222.9	0.00	0.00	0.00
11,300.0	89.72	179.65	9,231.6	-2,322.9	14.0	2,322.9	0.00	0.00	0.00
11,400.0	89.72	179.65	9,232.1	-2,422.9	14.7	2,422.9	0.00	0.00	0.00
11,500.0	89.72	179.65	9,232.6	-2,522.9	15.3	2,522.9	0.00	0.00	0.00
11,600.0	89.72	179.65	9,233.1	-2,622.9	15.9	2,622.9	0.00	0.00	0.00
11,700.0	89.72	179.65	9,233.6	-2,722.9	16.5	2,722.9	0.00	0.00	0.00
11,800.0	89.72	179.65	9,234.0	-2,822.9	17.1	2,822.9	0.00	0.00	0.00
11,900.0	89.72	179.65	9,234.5	-2,922.9	17.7	2,922.9	0.00	0.00	0.00
12,000.0	89.72	179.65	9,235.0	-3,022.9	18.3	3,022.9	0.00	0.00	0.00
12,100.0	89.72	179.65	9,235.5	-3,122.9	18.9	3,122.9	0.00	0.00	0.00
12,200.0	89.72	179.65	9,236.0	-3,222.9	19.5	3,222.9	0.00	0.00	0.00
12,300.0	89.72	179.65	9,236.5	-3,322.9	20.1	3,322.9	0.00	0.00	0.00
12,400.0	89.72	179.65	9,237.0	-3,422.9	20.7	3,422.9	0.00	0.00	0.00
12,500.0	89.72	179.65	9,237.5	-3,522.9	21.3	3,522.9	0.00	0.00	0.00
12,600.0	89.72	179.65	9,238.0	-3,622.9	21.9	3,622.9	0.00	0.00	0.00
12,700.0	89.72	179.65	9,238.5	-3,722.9	22.5	3,722.9	0.00	0.00	0.00
12,800.0	89.72	179.65	9,239.0	-3,822.8	23.1	3,822.9	0.00	0.00	0.00
12,900.0	89.72	179.65	9,239.5	-3,922.8	23.7	3,922.9	0.00	0.00	0.00
13,000.0	89.72	179.65	9,240.0	-4,022.8	24.3	4,022.9	0.00	0.00	0.00
13,100.0	89.72	179.65	9,240.5	-4,122.8	24.9	4,122.9	0.00	0.00	0.00
13,200.0	89.72	179.65	9,240.9	-4,222.8	25.5	4,222.9	0.00	0.00	0.00
13,300.0	89.72	179.65	9,241.4	-4,322.8	26.1	4,322.9	0.00	0.00	0.00
13,400.0	89.72	179.65	9,241.9	-4,422.8	26.7	4,422.9	0.00	0.00	0.00
13,500.0	89.72	179.65	9,242.4	-4,522.8	27.4	4,522.9	0.00	0.00	0.00
13,600.0	89.72	179.65	9,242.9	-4,622.8	28.0	4,622.9	0.00	0.00	0.00
TD @ 13617' MD / 9243' TVD									
13,616.9	89.72	179.65	9,243.0	-4,639.7	28.1	4,639.8	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
PBHL Salado Draw 9	0.00	0.00	9,243.0	-4,639.7	28.1	383,309.40	736,658.30	32° 3' 5.512 N	103° 34' 10.160 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

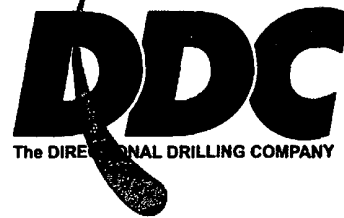
DDC
Well Planning Report



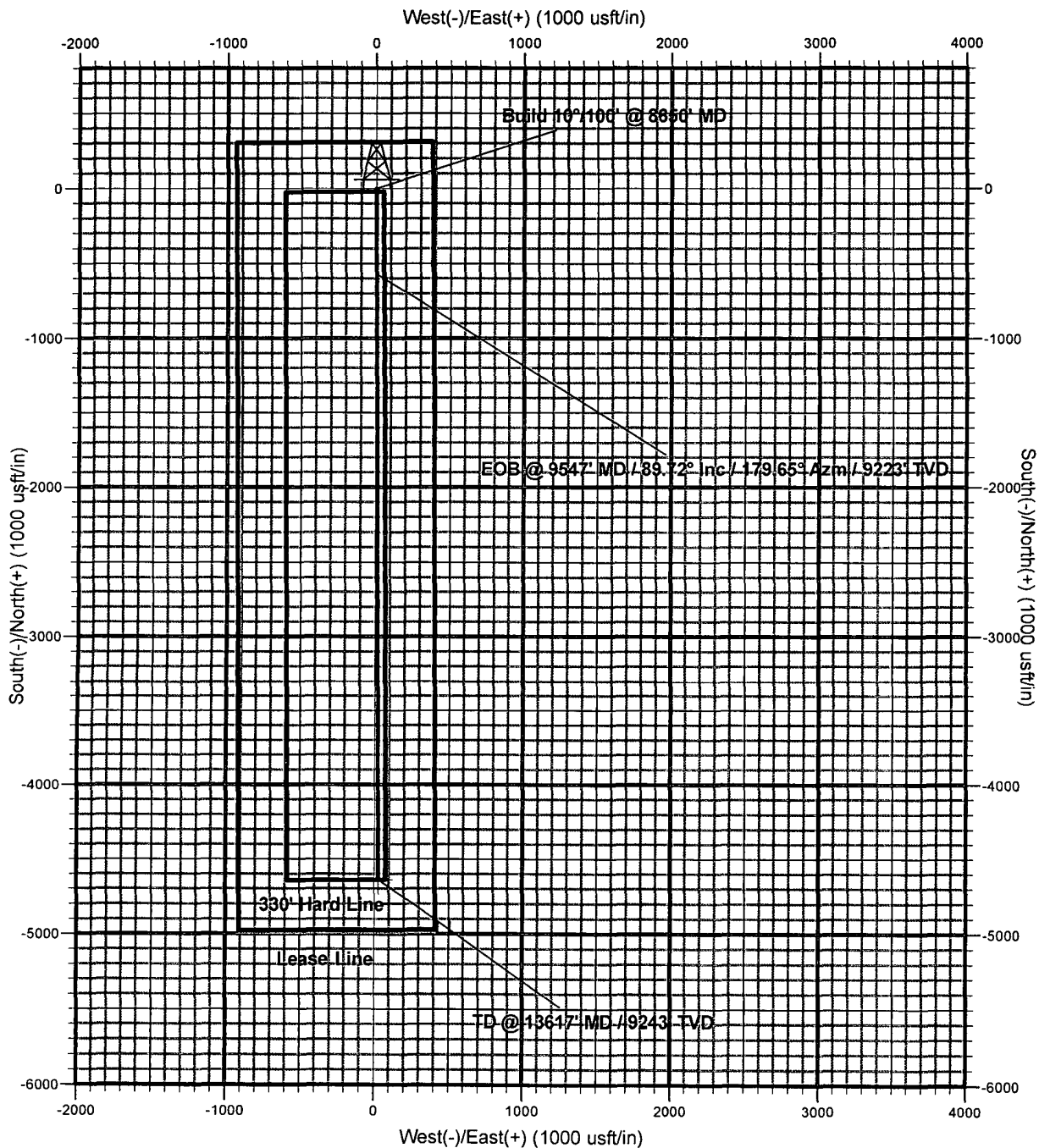
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Salado Draw 9 AP Fed #1H
Company:	Mewbourne Oil Co	TVD Reference:	WELL @ 3353.0usft (Patterson)
Project:	Lea County, NM	MD Reference:	WELL @ 3353.0usft (Patterson)
Site:	Sec 9-26S-33E	North Reference:	Grid
Well:	Salado Draw 9 AP Fed #1H	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)	
8,650.0	8,650.0	0.0	0.0	Build 10°/100' @ 8650' MD
9,547.2	9,223.0	-570.1	3.4	EOB @ 9547' MD / 89.72° Inc / 179.65° Azm / 9223' TVD
13,616.9	9,243.0	-4,639.7	28.1	TD @ 13617' MD / 9243' TVD

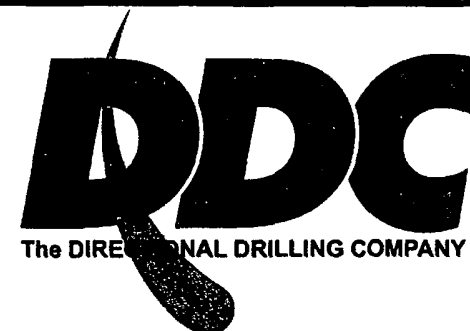
Mewbourne Oil Company



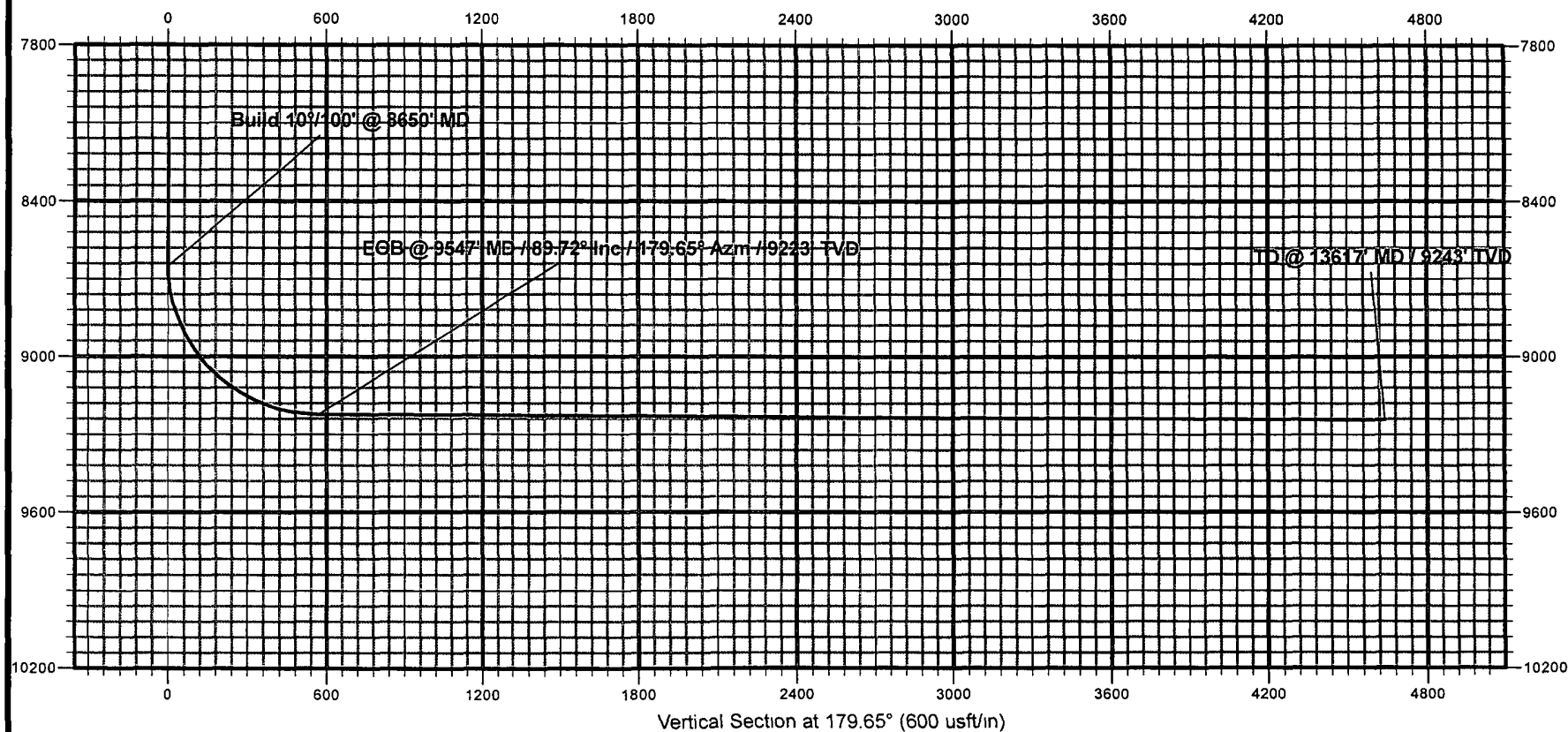
Lea County, NM
Sec 9-26S-33E
Salado Draw 9 AP Fed #1H
Quote 120448



Mewbourne Oil Company



Lea County, NM
Sec 9-26S-33E
Salado Draw 9 AP Fed #1H
Quote 120448



Notes Regarding Blowout Preventer

Mewbourne Oil Company

Salado Draw "9" AP Federal Com #1H

310' FNL & 380' FEL (SHL)

Sec 9-T26S-R33E

Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 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 an accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

11" 3M BOPE & Closed Loop Equipment Schematic

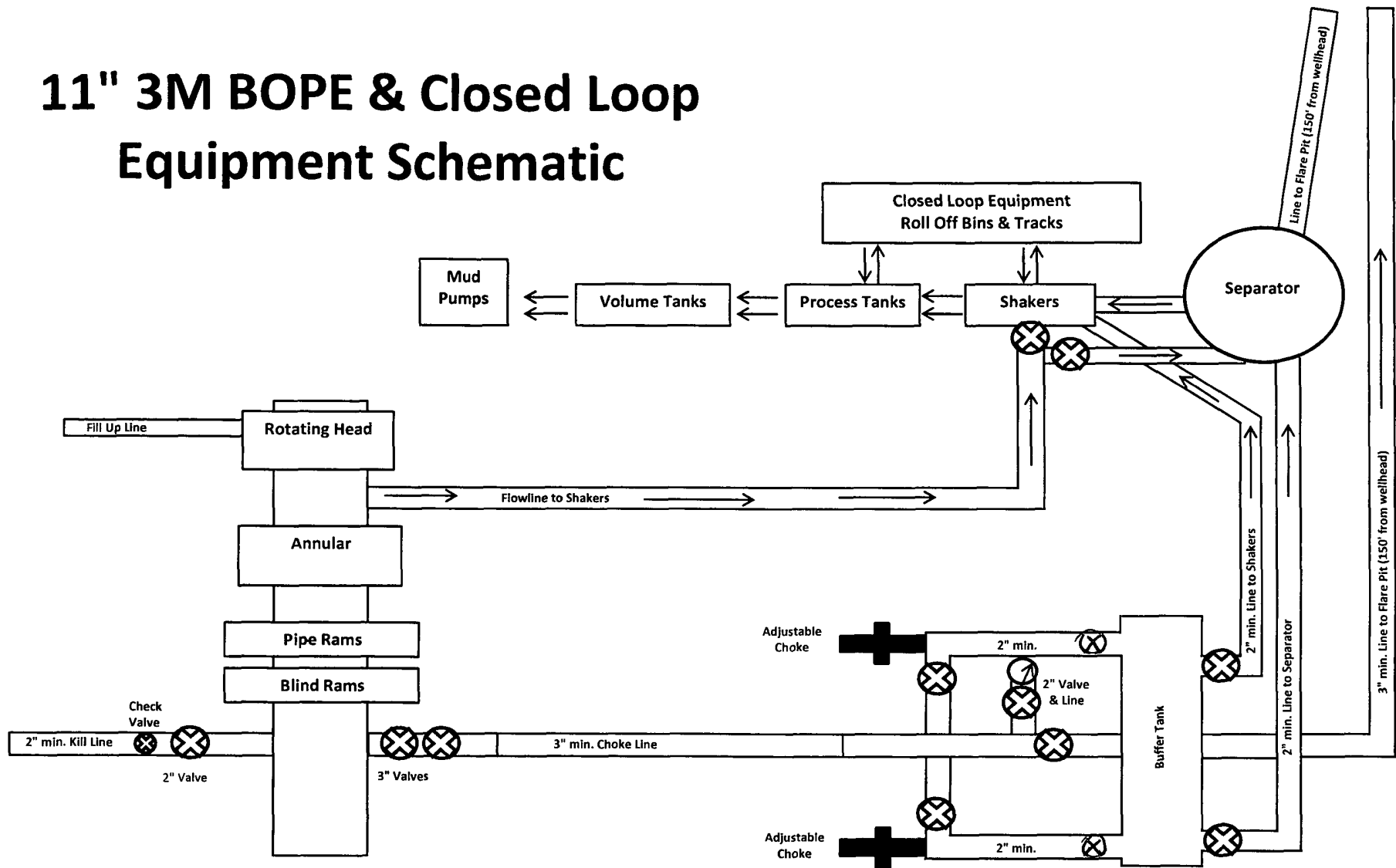


Exhibit "2"
Salado Draw "9" AP Fed Com #1H

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

Valves required
for systems with
buffer tank

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

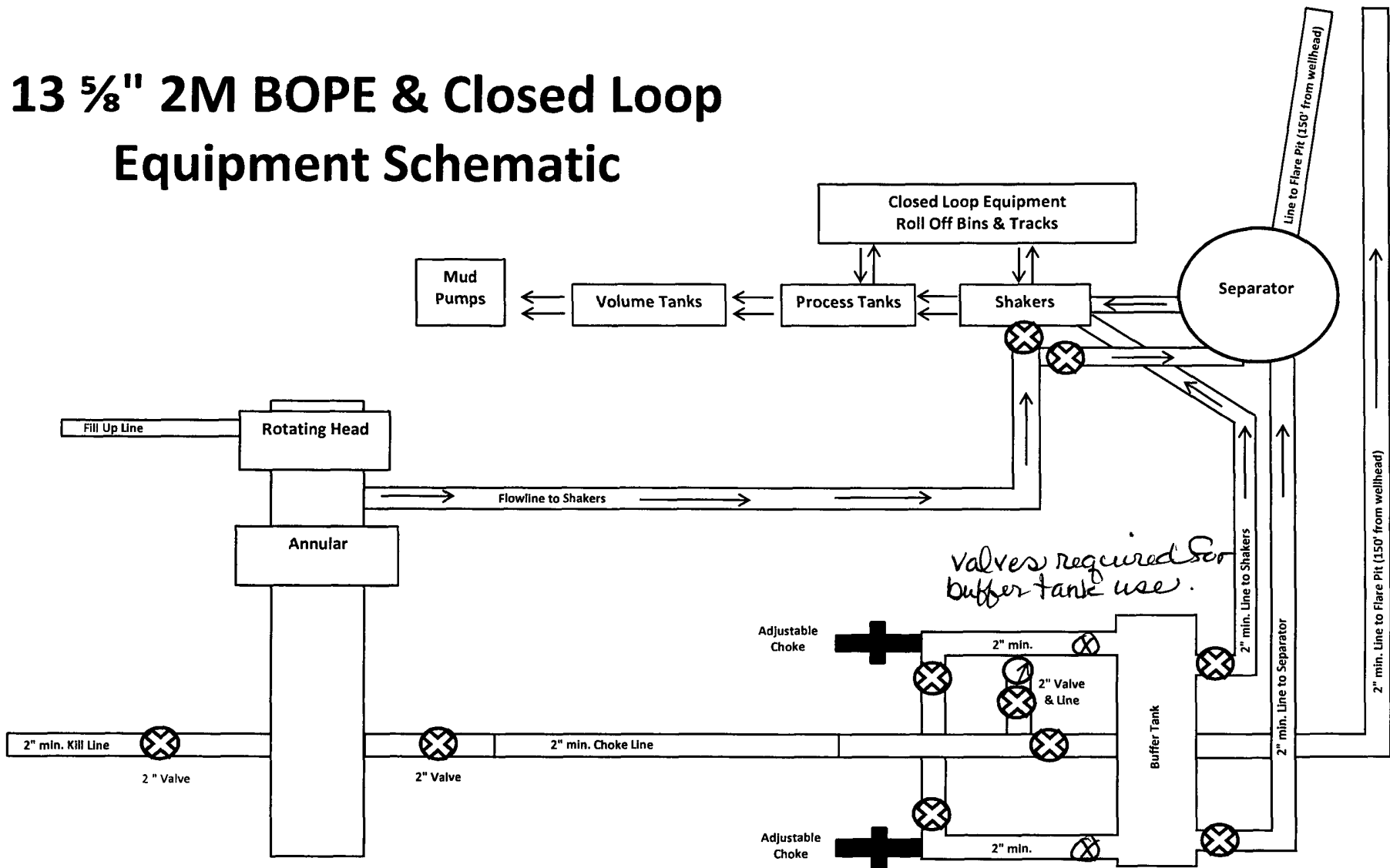


EXHIBIT "2"

Salado Draw "9" AP Fed Com #1H

(See
COA)

H2S Diagram

Closed Loop Pad Dimensions 280' x 320'

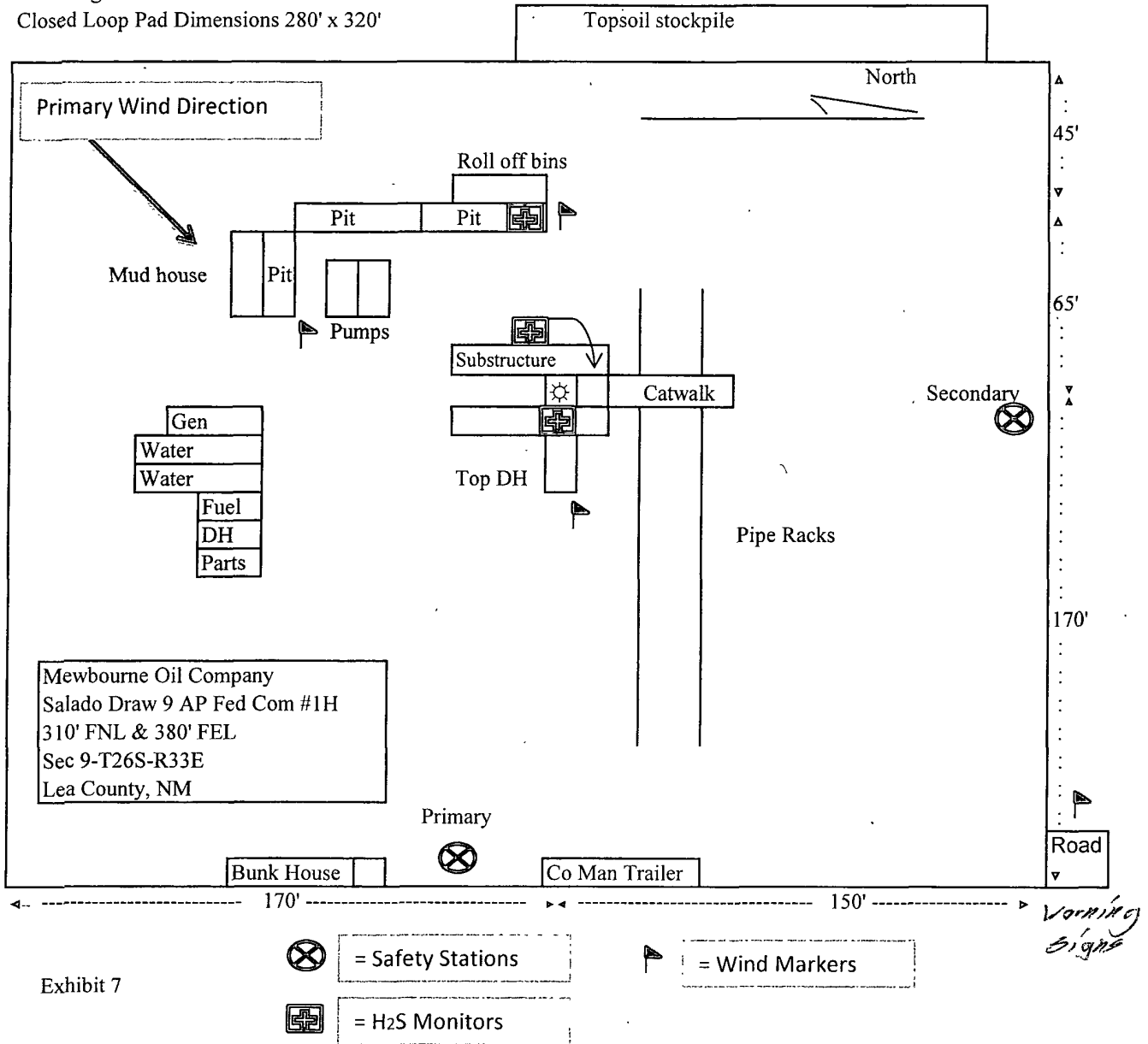


Exhibit 7