

13-935

OCD Hobbs

Form 3160-3
(March 2012)

HOBBS OCD

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 14 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No. NMNM-125386-A Red Hill West Unit
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. Red Hills West Unit #007H (39542)
2. Name of Operator Mewbourne Oil Company (14744)		9. API Well No. 30-025-41849
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) 5753935905	10. Field and Pool, or Exploratory Jennings Upper Bone Spring Shale (97838)
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 330' FNL & 1150' FWL, Sec. 10 T26S R32E, Eddy Co. At proposed prod. zone 330' FSL & 990' FWL, Sec. 10 T26S R32E, Eddy Co.		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 10 T26S R32E
14. Distance in miles and direction from nearest town or post office* 28 miles SW of Jal, NM		12. County or Parish LEA
15. Distance from proposed* 330' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		13. State NM
16. No. of acres in lease 320 NM 105561 NM 128927-200ac		17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* 650' RHWU #005H to nearest well, drilling, completed, applied for, on this lease, ft.		20. BLM/BIA Bond No. on file NM-1693 nationwide, NMB-000919
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3264' - GL	22. Approximate date work will start* 03/07/2014	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 <i>Bradley Bishop</i>	Name (Printed/Typed) Bradley Bishop	Date 02/07/2014
Title		

Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date MAY 14 2014
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

K2
05/16/14SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

MAY 19 2014

Mewbourne Oil Company

PO Box 5270
Hobbs, NM 88241
(575) 393-5905

HOBBS OCD

MAY 14 2014

RECEIVED

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 15 day of June, 2013.

Name: NM Young

Signature: B. Young for NM Young

Position Title: Hobbs District Manager

Address: PO Box 5270, Hobbs NM 88241

Telephone: 575-393-5905

E-mail: myoung@mewbourne.com

Drilling Program
Mewbourne Oil Company
 Red Hills West Unit #007H
 330' FNL & 1150' FWL (SHL)
 Sec 10-T26S-R32E
 Lea County, New Mexico

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

Rustler	935'
Top Salt	1275'
Base Salt/Lamar	4290'
Delaware	4520'
Bell Canyon	4550'
Cherry Canyon	5610'
Manzanita Marker	5750'
*Brushy Canyon	7245'
*Bone Spring	8640'
*1 st Bone Spring Sand	Will not penetrate
*2 nd Bone Spring Sand	Will not penetrate

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

Water	Fresh water is anticipated at 240' and will be protected by setting surface casing at 960' 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 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 13 3/8" annular to 1500# and the 9 5/8" & 7" BOPE to 3000# and annular 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 8476' & kick off to horizontal @ 9049' TVD. The well will be drilled to 13491' MD (9069' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

See
COA

<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'-960' ¹⁰⁴⁰	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-3400'	LT&C
12 1/4"	9 5/8" (new)	40#	J55	3400'-4450'	LT&C
8 3/4"	7" (new)	26#	P110	0-8476' MD	LT&C
8 3/4"	7" (new)	26#	P110	8476'-9373'MD	BT&C
6 1/8"	4 1/2" (new)	13.5#	P110	8276'-TD	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: 560 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.0 cuft/sk. Mix water @ 11.17 gal/sk. 200 sacks Class "C" cement w/2% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to surface w/25% excess.
- ii. Intermediate Casing: 750 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.0 cuft/sk. Mix water @ 11.17 gal/sk. 200 sacks Class "C" cement w/2% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 300 sacks Class H light cement (35:65:4) with fluid loss, LCM, & salt additives. Yield at 2.12 cuft/sk. Mix water @ 11.32 gal/sk. 300 sacks Class H cement containing fluid loss additives. Yield at 1.18 cuft/sk. Mix water @ 5.22 gal/sk. Cmt calculated to tie back 200' into 9 5/8" casing @ 4250' w/25% excess.
- iv. Production Liner: This will be a Packer/Port completion from TD to 200' inside 7" casing with packer type liner hanger.

*Referring to above blends of light 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'-960' ¹⁰⁴⁰	FW spud mud	8.6-9.0	32-34	NA
960'-4450'	Brine water	10.0-10.2	28-30	NA
4450'-8476'	FW mud	8.6-8.8	28-30	NA
8476'- TD	FW w/Polymer	8.5-8.7	32-35	15

*Visual mud monitoring system shall be in place to detect volume changes indicating loss or gain of circulation fluid volume. Sufficient mud materials will be kept on location at all times to combat abnormal conditions.

7. Evaluation Program:

Samples: 10' samples from surface casing to TD
Logging: GR, CNL & Gyro from KOP-100' (8376') to surface and GR from 8376' 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 (.43368 x 9069'=3933 psi)

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 Company .

Lea County N.M.

Section 10-26S-32E Red hills West Unit #007H

Red Hills West Unit #007H

Original Hole

Plan: Plan#1

Standard Planning Report

06 February, 2014





Stryker Directional Planning Report



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 10-26S-32E Red hills West Unit #007H
Well: Red Hills West Unit #007H
Wellbore: Original Hole
Design: Plan#1

Local Co-ordinate Reference: Well Red Hills West Unit #007H
TVD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County N.M.		
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 Section 10-26S-32E Red hills West Unit #007H

Site Position: Northing: 387,624.80 usft Latitude: 32° 3' 50.204 N
From: Map Easting: 706,343.20 usft Longitude: 103° 40' 2.073 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.35 °

Well Red Hills West Unit #007H

Well Position +N/-S 0.0 usft Northing: 387,624.80 usft Latitude: 32° 3' 50.204 N
+E/-W 0.0 usft Easting: 706,343.20 usft Longitude: 103° 40' 2.073 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,254.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/6/2014	7.29	59.96	48,246

Design Plan#1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.30

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	
8,476.0	0.00	0.00	8,476.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,373.2	89.72	181.30	9,049.0	-570.0	-13.0	10.00	10.00	-19.92	181.30	
13,491.2	89.72	181.30	9,069.0	-4,686.9	-106.5	0.00	0.00	0.00	0.00	PBHL Red Hills We



Stryker Directional Planning Report



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MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
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)
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



Stryker Directional Planning Report



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,476.0	0.00	0.00	8,476.0	0.0	0.0	0.0	0.00	0.00	0.00
8476.0' MD KOP									
8,500.0	2.40	181.30	8,500.0	-0.5	0.0	0.5	10.00	10.00	0.00
8,550.0	7.40	181.30	8,549.8	-4.8	-0.1	4.8	10.00	10.00	0.00
8,600.0	12.40	181.30	8,599.0	-13.4	-0.3	13.4	10.00	10.00	0.00
8,650.0	17.40	181.30	8,647.3	-26.2	-0.6	26.2	10.00	10.00	0.00
8,700.0	22.40	181.30	8,694.3	-43.2	-1.0	43.2	10.00	10.00	0.00
8,750.0	27.40	181.30	8,739.7	-64.3	-1.5	64.3	10.00	10.00	0.00
8,800.0	32.40	181.30	8,783.0	-89.2	-2.0	89.2	10.00	10.00	0.00
8,850.0	37.40	181.30	8,824.0	-117.8	-2.7	117.8	10.00	10.00	0.00
8,900.0	42.40	181.30	8,862.3	-149.8	-3.4	149.9	10.00	10.00	0.00
8,950.0	47.40	181.30	8,897.8	-185.1	-4.2	185.1	10.00	10.00	0.00
9,000.0	52.40	181.30	8,929.9	-223.3	-5.1	223.4	10.00	10.00	0.00
9,050.0	57.40	181.30	8,958.7	-264.2	-6.0	264.3	10.00	10.00	0.00
9,100.0	62.40	181.30	8,983.8	-307.4	-7.0	307.5	10.00	10.00	0.00
9,150.0	67.40	181.30	9,005.0	-352.7	-8.0	352.8	10.00	10.00	0.00
9,200.0	72.40	181.30	9,022.1	-399.6	-9.1	399.7	10.00	10.00	0.00
9,250.0	77.40	181.30	9,035.2	-447.9	-10.2	448.0	10.00	10.00	0.00
9,300.0	82.40	181.30	9,043.9	-497.1	-11.3	497.2	10.00	10.00	0.00
9,350.0	87.40	181.30	9,048.4	-546.8	-12.4	547.0	10.00	10.00	0.00
9,373.2	89.72	181.30	9,049.0	-570.0	-13.0	570.2	10.00	10.00	0.00



Stryker Directional Planning Report



Database: EDM 5000.1 Single User Db
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Project: Lea County N.M.
Site: Section 10-26S-32E Red hills West Unit #007H
Well: Red Hills West Unit #007H
Wellbore: Original Hole
Design: Plan#1

Local Co-ordinate Reference: Well Red Hills West Unit #007H
TVD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
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)
9373.2' MD LP									
9,400.0	89.72	181.30	9,049.1	-596.8	-13.6	597.0	0.00	0.00	0.00
9,500.0	89.72	181.30	9,049.6	-696.8	-15.8	697.0	0.00	0.00	0.00
9,600.0	89.72	181.30	9,050.1	-796.7	-18.1	797.0	0.00	0.00	0.00
9,700.0	89.72	181.30	9,050.5	-896.7	-20.4	897.0	0.00	0.00	0.00
9,800.0	89.72	181.30	9,051.0	-996.7	-22.6	997.0	0.00	0.00	0.00
9,900.0	89.72	181.30	9,051.5	-1,096.7	-24.9	1,097.0	0.00	0.00	0.00
10,000.0	89.72	181.30	9,052.0	-1,196.6	-27.2	1,197.0	0.00	0.00	0.00
10,100.0	89.72	181.30	9,052.5	-1,296.6	-29.5	1,296.9	0.00	0.00	0.00
10,200.0	89.72	181.30	9,053.0	-1,396.6	-31.7	1,396.9	0.00	0.00	0.00
10,300.0	89.72	181.30	9,053.5	-1,496.6	-34.0	1,496.9	0.00	0.00	0.00
10,400.0	89.72	181.30	9,053.9	-1,596.5	-36.3	1,596.9	0.00	0.00	0.00
10,500.0	89.72	181.30	9,054.4	-1,696.5	-38.5	1,696.9	0.00	0.00	0.00
10,600.0	89.72	181.30	9,054.9	-1,796.5	-40.8	1,796.9	0.00	0.00	0.00
10,700.0	89.72	181.30	9,055.4	-1,896.5	-43.1	1,896.9	0.00	0.00	0.00
10,800.0	89.72	181.30	9,055.9	-1,996.4	-45.4	1,996.9	0.00	0.00	0.00
10,900.0	89.72	181.30	9,056.4	-2,096.4	-47.6	2,096.9	0.00	0.00	0.00
11,000.0	89.72	181.30	9,056.9	-2,196.4	-49.9	2,196.9	0.00	0.00	0.00
11,100.0	89.72	181.30	9,057.4	-2,296.3	-52.2	2,296.9	0.00	0.00	0.00
11,200.0	89.72	181.30	9,057.8	-2,396.3	-54.5	2,396.9	0.00	0.00	0.00
11,300.0	89.72	181.30	9,058.3	-2,496.3	-56.7	2,496.9	0.00	0.00	0.00
11,400.0	89.72	181.30	9,058.8	-2,596.3	-59.0	2,596.9	0.00	0.00	0.00
11,500.0	89.72	181.30	9,059.3	-2,696.2	-61.3	2,696.9	0.00	0.00	0.00
11,600.0	89.72	181.30	9,059.8	-2,796.2	-63.5	2,796.9	0.00	0.00	0.00
11,700.0	89.72	181.30	9,060.3	-2,896.2	-65.8	2,896.9	0.00	0.00	0.00
11,800.0	89.72	181.30	9,060.8	-2,996.2	-68.1	2,996.9	0.00	0.00	0.00
11,900.0	89.72	181.30	9,061.3	-3,096.1	-70.4	3,096.9	0.00	0.00	0.00
12,000.0	89.72	181.30	9,061.7	-3,196.1	-72.6	3,196.9	0.00	0.00	0.00
12,100.0	89.72	181.30	9,062.2	-3,296.1	-74.9	3,296.9	0.00	0.00	0.00
12,200.0	89.72	181.30	9,062.7	-3,396.0	-77.2	3,396.9	0.00	0.00	0.00
12,300.0	89.72	181.30	9,063.2	-3,496.0	-79.4	3,496.9	0.00	0.00	0.00
12,400.0	89.72	181.30	9,063.7	-3,596.0	-81.7	3,596.9	0.00	0.00	0.00
12,500.0	89.72	181.30	9,064.2	-3,696.0	-84.0	3,696.9	0.00	0.00	0.00
12,600.0	89.72	181.30	9,064.7	-3,795.9	-86.3	3,796.9	0.00	0.00	0.00
12,700.0	89.72	181.30	9,065.1	-3,895.9	-88.5	3,896.9	0.00	0.00	0.00
12,800.0	89.72	181.30	9,065.6	-3,995.9	-90.8	3,996.9	0.00	0.00	0.00
12,900.0	89.72	181.30	9,066.1	-4,095.9	-93.1	4,096.9	0.00	0.00	0.00
13,000.0	89.72	181.30	9,066.6	-4,195.8	-95.3	4,196.9	0.00	0.00	0.00
13,100.0	89.72	181.30	9,067.1	-4,295.8	-97.6	4,296.9	0.00	0.00	0.00
13,200.0	89.72	181.30	9,067.6	-4,395.8	-99.9	4,396.9	0.00	0.00	0.00
13,300.0	89.72	181.30	9,068.1	-4,495.8	-102.2	4,496.9	0.00	0.00	0.00
13,400.0	89.72	181.30	9,068.6	-4,595.7	-104.4	4,596.9	0.00	0.00	0.00
13,491.2	89.72	181.30	9,069.0	-4,686.9	-106.5	4,688.1	0.00	0.00	0.00

13491.2' MD PBHL



Stryker Directional Planning Report



Database: EDM 5000.1 Single User Db
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Site: Section 10-26S-32E Red hills West Unit #007H
Well: Red Hills West Unit #007H
Wellbore: Original Hole
Design: Plan#1

Local Co-ordinate Reference: Well Red Hills West Unit #007H
TVD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

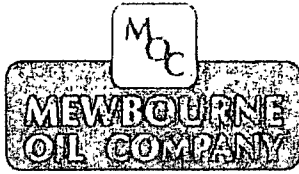
Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
LP Red Hills West #01	0.00	0.00	9,049.0	-567.9	-10.5	387,056.92	706,332.69	32° 3' 44.585 N	103° 40' 2.236 W
- plan misses target center by 2.4usft at 9371.0usft MD (9048.9 TVD, -567.8 N, -12.9 E)									
- Point									
PBHL Red Hills West	0.00	0.00	9,069.0	-4,686.9	-106.5	382,937.90	706,236.70	32° 3' 3.829 N	103° 40' 3.647 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,476.0	8,476.0	0.0	0.0	8476.0' MD KOP
9,373.2	9,049.0	-570.0	-13.0	9373.2' MD LP
13,491.2	9,069.0	-4,686.9	-106.5	13491.2' MD PBHL



Mewbourne Oil Company .

Lea County N.M.

Section 10-26S-32E Red hills West Unit #007H

Red Hills West Unit #007H

Original Hole

Plan: Plan#1

Standard Planning Report - Geographic

06 February, 2014





Stryker Directional Planning Report - Geographic



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 10-26S-32E Red hills West Unit #007H
Well: Red Hills West Unit #007H
Wellbore: Original Hole
Design: Plan# 1

Local Co-ordinate Reference: Well Red Hills West Unit #007H
TVD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County N.M.		
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 Section 10-26S-32E Red hills West Unit #007H

Site Position: Northing: 387,624.80 usft Latitude: 32° 3' 50.204 N
From: Map Easting: 706,343.20 usft Longitude: 103° 40' 2.073 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.35°

Well Red Hills West Unit #007H

Well Position +N/-S 0.0 usft Northing: 387,624.80 usft Latitude: 32° 3' 50.204 N
+E/-W 0.0 usft Easting: 706,343.20 usft Longitude: 103° 40' 2.073 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,254.0 usft

Wellbore: Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/6/2014	7.29	59.96	48,246

Design Plan# 1

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.30

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	
8,476.0	0.00	0.00	8,476.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,373.2	89.72	181.30	9,049.0	-570.0	-13.0	10.00	10.00	-19.92	181.30	
13,491.2	89.72	181.30	9,069.0	-4,686.9	-106.5	0.00	0.00	0.00	0.00	PBHL Red Hills We



Stryker Directional Planning Report - Geographic



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Site: Section 10-26S-32E Red hills West Unit #007H
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MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
100.0	0.00	0.00	100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
200.0	0.00	0.00	200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
300.0	0.00	0.00	300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
400.0	0.00	0.00	400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
500.0	0.00	0.00	500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
600.0	0.00	0.00	600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
700.0	0.00	0.00	700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
800.0	0.00	0.00	800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
900.0	0.00	0.00	900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W



Stryker Directional Planning Report - Geographic



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 10-26S-32E Red hills West Unit #007H
Well: Red Hills West Unit #007H
Wellbore: Original Hole
Design: Plan#1

Local Co-ordinate Reference: Well Red Hills West Unit #007H
TVD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.0	0.00	0.00	5,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,500.0	0.00	0.00	5,500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,600.0	0.00	0.00	5,600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,700.0	0.00	0.00	5,700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,800.0	0.00	0.00	5,800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
5,900.0	0.00	0.00	5,900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,000.0	0.00	0.00	6,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,100.0	0.00	0.00	6,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,200.0	0.00	0.00	6,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,300.0	0.00	0.00	6,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,400.0	0.00	0.00	6,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,500.0	0.00	0.00	6,500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,600.0	0.00	0.00	6,600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,700.0	0.00	0.00	6,700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,800.0	0.00	0.00	6,800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
6,900.0	0.00	0.00	6,900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,000.0	0.00	0.00	7,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,100.0	0.00	0.00	7,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,200.0	0.00	0.00	7,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,300.0	0.00	0.00	7,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,400.0	0.00	0.00	7,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,500.0	0.00	0.00	7,500.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,600.0	0.00	0.00	7,600.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,700.0	0.00	0.00	7,700.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,800.0	0.00	0.00	7,800.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
7,900.0	0.00	0.00	7,900.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
8,000.0	0.00	0.00	8,000.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
8,100.0	0.00	0.00	8,100.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
8,200.0	0.00	0.00	8,200.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
8,300.0	0.00	0.00	8,300.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
8,400.0	0.00	0.00	8,400.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
8,476.0	0.00	0.00	8,476.0	0.0	0.0	387,624.80	706,343.20	32° 3' 50.204 N	103° 40' 2.073 W
8476.0' MD KOP									
8,500.0	2.40	181.30	8,500.0	-0.5	0.0	387,624.30	706,343.18	32° 3' 50.199 N	103° 40' 2.074 W
8,550.0	7.40	181.30	8,549.8	-4.8	-0.1	387,620.03	706,343.09	32° 3' 50.156 N	103° 40' 2.075 W
8,600.0	12.40	181.30	8,599.0	-13.4	-0.3	387,611.44	706,342.89	32° 3' 50.071 N	103° 40' 2.078 W
8,650.0	17.40	181.30	8,647.3	-26.2	-0.6	387,598.59	706,342.60	32° 3' 49.944 N	103° 40' 2.082 W
8,700.0	22.40	181.30	8,694.3	-43.2	-1.0	387,581.58	706,342.21	32° 3' 49.776 N	103° 40' 2.088 W
8,750.0	27.40	181.30	8,739.7	-64.3	-1.5	387,560.54	706,341.74	32° 3' 49.568 N	103° 40' 2.095 W
8,800.0	32.40	181.30	8,783.0	-89.2	-2.0	387,535.63	706,341.17	32° 3' 49.321 N	103° 40' 2.103 W
8,850.0	37.40	181.30	8,824.0	-117.8	-2.7	387,507.04	706,340.52	32° 3' 49.038 N	103° 40' 2.113 W
8,900.0	42.40	181.30	8,862.3	-149.8	-3.4	387,474.98	706,339.79	32° 3' 48.721 N	103° 40' 2.124 W
8,950.0	47.40	181.30	8,897.8	-185.1	-4.2	387,439.71	706,338.99	32° 3' 48.372 N	103° 40' 2.136 W
9,000.0	52.40	181.30	8,929.9	-223.3	-5.1	387,401.49	706,338.12	32° 3' 47.994 N	103° 40' 2.148 W
9,050.0	57.40	181.30	8,958.7	-264.2	-6.0	387,360.60	706,337.19	32° 3' 47.590 N	103° 40' 2.162 W
9,100.0	62.40	181.30	8,983.8	-307.4	-7.0	387,317.37	706,336.21	32° 3' 47.162 N	103° 40' 2.177 W
9,150.0	67.40	181.30	9,005.0	-352.7	-8.0	387,272.12	706,335.18	32° 3' 46.714 N	103° 40' 2.192 W
9,200.0	72.40	181.30	9,022.1	-399.6	-9.1	387,225.19	706,334.12	32° 3' 46.250 N	103° 40' 2.208 W
9,250.0	77.40	181.30	9,035.2	-447.9	-10.2	387,176.94	706,333.02	32° 3' 45.772 N	103° 40' 2.224 W
9,300.0	82.40	181.30	9,043.9	-497.1	-11.3	387,127.75	706,331.90	32° 3' 45.286 N	103° 40' 2.240 W
9,350.0	87.40	181.30	9,048.4	-546.8	-12.4	387,077.97	706,330.77	32° 3' 44.793 N	103° 40' 2.257 W
9,373.2	89.72	181.30	9,049.0	-570.0	-13.0	387,054.79	706,330.24	32° 3' 44.564 N	103° 40' 2.265 W
9373.2' MD LP									



Stryker Directional Planning Report - Geographic



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 10-26S-32E Red hills West Unit #007H
Well: Red Hills West Unit #007H
Wellbore: Original Hole
Design: Plan#1

Local Co-ordinate Reference: Well Red Hills West Unit #007H
TVD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,400.0	89.72	181.30	9,049.1	-596.8	-13.6	387,028.00	706,329.63	32° 3' 44.299 N	103° 40' 2.274 W
9,500.0	89.72	181.30	9,049.6	-696.8	-15.8	386,928.02	706,327.36	32° 3' 43.309 N	103° 40' 2.307 W
9,600.0	89.72	181.30	9,050.1	-796.7	-18.1	386,828.05	706,325.09	32° 3' 42.320 N	103° 40' 2.341 W
9,700.0	89.72	181.30	9,050.5	-896.7	-20.4	386,728.08	706,322.82	32° 3' 41.331 N	103° 40' 2.374 W
9,800.0	89.72	181.30	9,051.0	-996.7	-22.6	386,628.10	706,320.55	32° 3' 40.342 N	103° 40' 2.408 W
9,900.0	89.72	181.30	9,051.5	-1,096.7	-24.9	386,528.13	706,318.28	32° 3' 39.353 N	103° 40' 2.442 W
10,000.0	89.72	181.30	9,052.0	-1,196.6	-27.2	386,428.16	706,316.00	32° 3' 38.363 N	103° 40' 2.475 W
10,100.0	89.72	181.30	9,052.5	-1,296.6	-29.5	386,328.18	706,313.73	32° 3' 37.374 N	103° 40' 2.509 W
10,200.0	89.72	181.30	9,053.0	-1,396.6	-31.7	386,228.21	706,311.46	32° 3' 36.385 N	103° 40' 2.542 W
10,300.0	89.72	181.30	9,053.5	-1,496.6	-34.0	386,128.24	706,309.19	32° 3' 35.396 N	103° 40' 2.576 W
10,400.0	89.72	181.30	9,053.9	-1,596.5	-36.3	386,028.27	706,306.92	32° 3' 34.407 N	103° 40' 2.609 W
10,500.0	89.72	181.30	9,054.4	-1,696.5	-38.5	385,928.29	706,304.65	32° 3' 33.417 N	103° 40' 2.643 W
10,600.0	89.72	181.30	9,054.9	-1,796.5	-40.8	385,828.32	706,302.37	32° 3' 32.428 N	103° 40' 2.677 W
10,700.0	89.72	181.30	9,055.4	-1,896.5	-43.1	385,728.35	706,300.10	32° 3' 31.439 N	103° 40' 2.710 W
10,800.0	89.72	181.30	9,055.9	-1,996.4	-45.4	385,628.37	706,297.83	32° 3' 30.450 N	103° 40' 2.744 W
10,900.0	89.72	181.30	9,056.4	-2,096.4	-47.6	385,528.40	706,295.56	32° 3' 29.461 N	103° 40' 2.777 W
11,000.0	89.72	181.30	9,056.9	-2,196.4	-49.9	385,428.43	706,293.29	32° 3' 28.471 N	103° 40' 2.811 W
11,100.0	89.72	181.30	9,057.4	-2,296.3	-52.2	385,328.45	706,291.02	32° 3' 27.482 N	103° 40' 2.844 W
11,200.0	89.72	181.30	9,057.8	-2,396.3	-54.5	385,228.48	706,288.74	32° 3' 26.493 N	103° 40' 2.878 W
11,300.0	89.72	181.30	9,058.3	-2,496.3	-56.7	385,128.51	706,286.47	32° 3' 25.504 N	103° 40' 2.911 W
11,400.0	89.72	181.30	9,058.8	-2,596.3	-59.0	385,028.53	706,284.20	32° 3' 24.515 N	103° 40' 2.945 W
11,500.0	89.72	181.30	9,059.3	-2,696.2	-61.3	384,928.56	706,281.93	32° 3' 23.526 N	103° 40' 2.979 W
11,600.0	89.72	181.30	9,059.8	-2,796.2	-63.5	384,828.59	706,279.66	32° 3' 22.536 N	103° 40' 3.012 W
11,700.0	89.72	181.30	9,060.3	-2,896.2	-65.8	384,728.62	706,277.39	32° 3' 21.547 N	103° 40' 3.046 W
11,800.0	89.72	181.30	9,060.8	-2,996.2	-68.1	384,628.64	706,275.11	32° 3' 20.558 N	103° 40' 3.079 W
11,900.0	89.72	181.30	9,061.3	-3,096.1	-70.4	384,528.67	706,272.84	32° 3' 19.569 N	103° 40' 3.113 W
12,000.0	89.72	181.30	9,061.7	-3,196.1	-72.6	384,428.70	706,270.57	32° 3' 18.580 N	103° 40' 3.146 W
12,100.0	89.72	181.30	9,062.2	-3,296.1	-74.9	384,328.72	706,268.30	32° 3' 17.590 N	103° 40' 3.180 W
12,200.0	89.72	181.30	9,062.7	-3,396.0	-77.2	384,228.75	706,266.03	32° 3' 16.601 N	103° 40' 3.213 W
12,300.0	89.72	181.30	9,063.2	-3,496.0	-79.4	384,128.78	706,263.76	32° 3' 15.612 N	103° 40' 3.247 W
12,400.0	89.72	181.30	9,063.7	-3,596.0	-81.7	384,028.80	706,261.48	32° 3' 14.623 N	103° 40' 3.281 W
12,500.0	89.72	181.30	9,064.2	-3,696.0	-84.0	383,928.83	706,259.21	32° 3' 13.634 N	103° 40' 3.314 W
12,600.0	89.72	181.30	9,064.7	-3,795.9	-86.3	383,828.86	706,256.94	32° 3' 12.644 N	103° 40' 3.348 W
12,700.0	89.72	181.30	9,065.1	-3,895.9	-88.5	383,728.89	706,254.67	32° 3' 11.655 N	103° 40' 3.381 W
12,800.0	89.72	181.30	9,065.6	-3,995.9	-90.8	383,628.91	706,252.40	32° 3' 10.666 N	103° 40' 3.415 W
12,900.0	89.72	181.30	9,066.1	-4,095.9	-93.1	383,528.94	706,250.13	32° 3' 9.677 N	103° 40' 3.448 W
13,000.0	89.72	181.30	9,066.6	-4,195.8	-95.3	383,428.97	706,247.85	32° 3' 8.688 N	103° 40' 3.482 W
13,100.0	89.72	181.30	9,067.1	-4,295.8	-97.6	383,328.99	706,245.58	32° 3' 7.698 N	103° 40' 3.516 W
13,200.0	89.72	181.30	9,067.6	-4,395.8	-99.9	383,229.02	706,243.31	32° 3' 6.709 N	103° 40' 3.549 W
13,300.0	89.72	181.30	9,068.1	-4,495.8	-102.2	383,129.05	706,241.04	32° 3' 5.720 N	103° 40' 3.583 W
13,400.0	89.72	181.30	9,068.6	-4,595.7	-104.4	383,029.07	706,238.77	32° 3' 4.731 N	103° 40' 3.616 W
13,491.2	89.72	181.30	9,069.0	-4,686.9	-106.5	382,937.90	706,236.70	32° 3' 3.829 N	103° 40' 3.647 W

13491.2' MD PBHL



Stryker Directional Planning Report - Geographic



Database: EDM 5000.1 Single User Db
Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 10-26S-32E Red hills West Unit #007H
Well: Red Hills West Unit #007H
Wellbore: Original Hole
Design: Plan#1

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MD Reference: GL3254' + 20 @ 3274.0usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
LP Red Hills West #01	0.00	0.00	9,049.0	-567.9	-10.5	387,056.92	706,332.69	32° 3' 44.585 N	103° 40' 2.236 W
- plan misses target center by 2.4usft at 9371.0usft MD (9048.9 TVD, -567.8 N, -12.9 E)									
- Point									
PBHL Red Hills West	0.00	0.00	9,069.0	-4,686.9	-106.5	382,937.90	706,236.70	32° 3' 3.829 N	103° 40' 3.647 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
8,476.0	8,476.0	0.0	0.0	8476.0' MD KOP
9,373.2	9,049.0	-570.0	-13.0	9373.2' MD LP
13,491.2	9,069.0	-4,686.9	-106.5	13491.2' MD PBHL



COMPANY: Mewbourne Oil Company
 WELL: Red Hills West Unit #007H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #36



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.94°

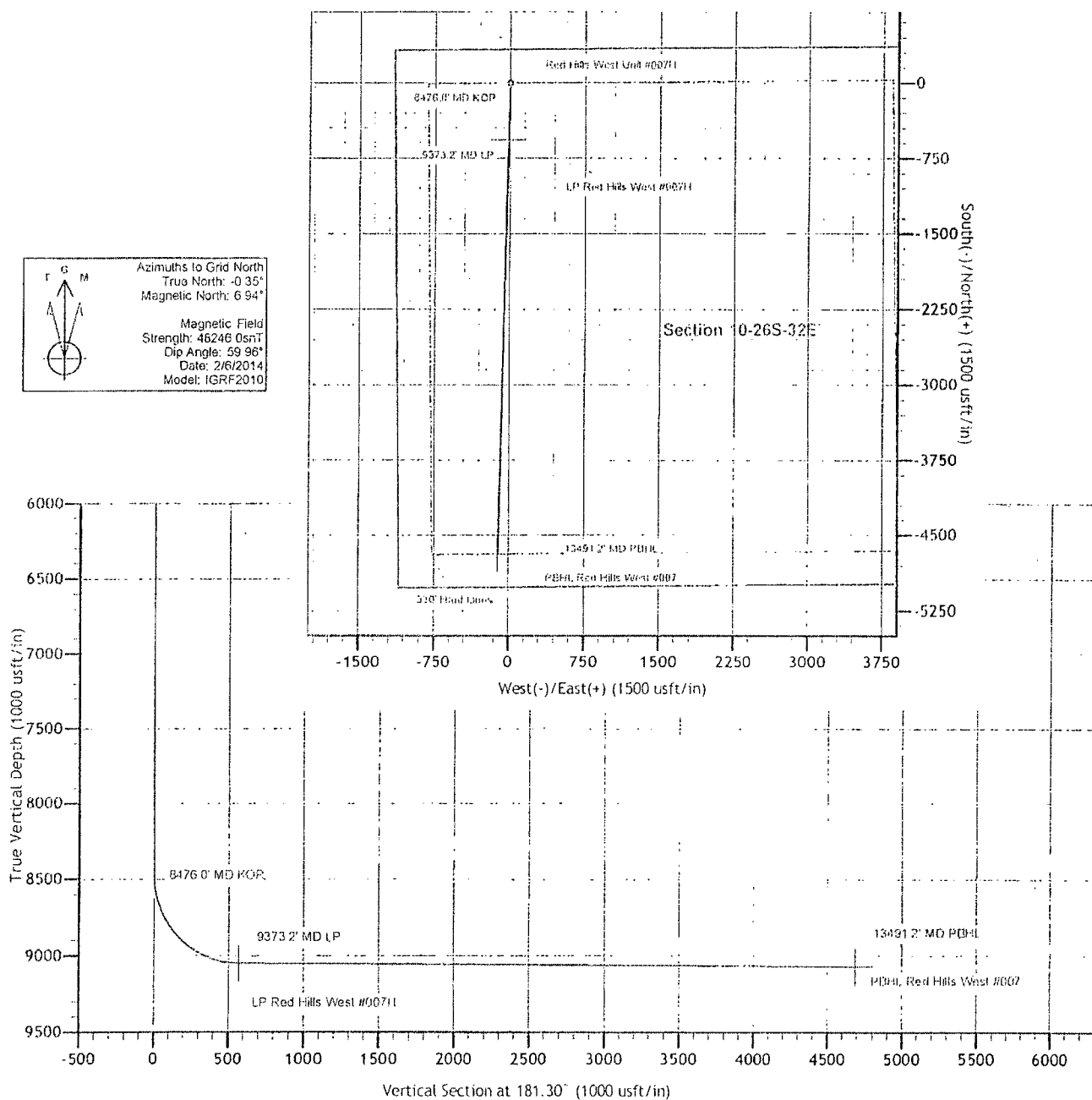
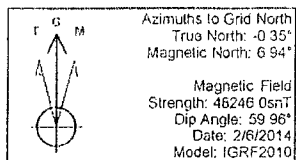
OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001
 GL3254° + 20 @ 3274.0usft (Patterson #36)
 GROUND ELEVATION: 3254.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
6.0	0.0	287624.80	706343.20	32° 3' 50.204 N	103° 40' 2.073 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8476.0	0.00	0.00	8476.0	0.0	0.0	0.00	0.00	0.0	
3	9373.2	69.72	181.30	9049.0	-570.0	-13.0	10.00	181.30	570.2	
4	13491.2	69.72	181.30	9069.0	-4686.9	-106.5	0.00	0.00	4686.1	PBHL Red Hills West #007



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

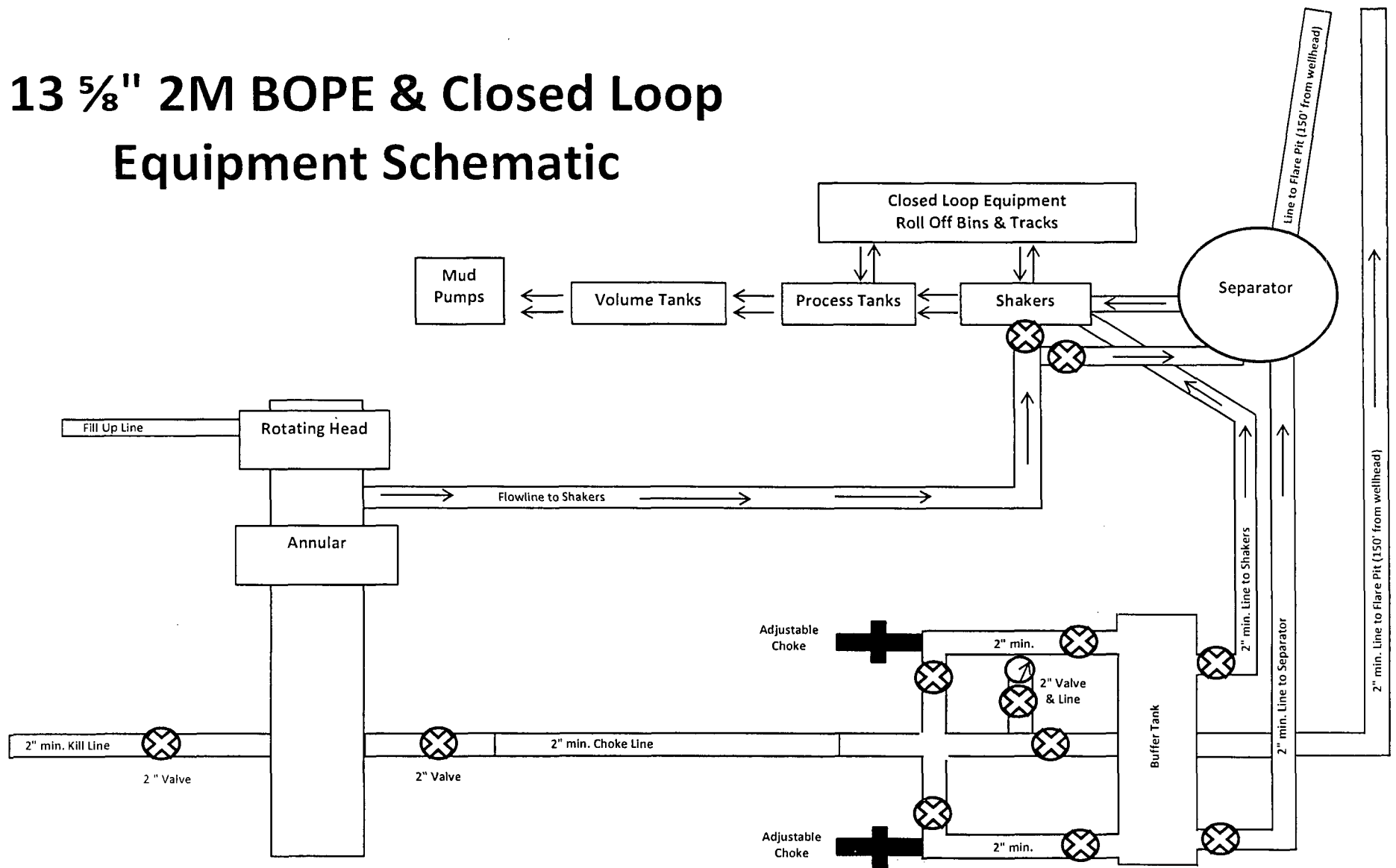


Exhibit 2A
Red Hills West Unit #007H

11" 3M BOPE & Closed Loop Equipment Schematic

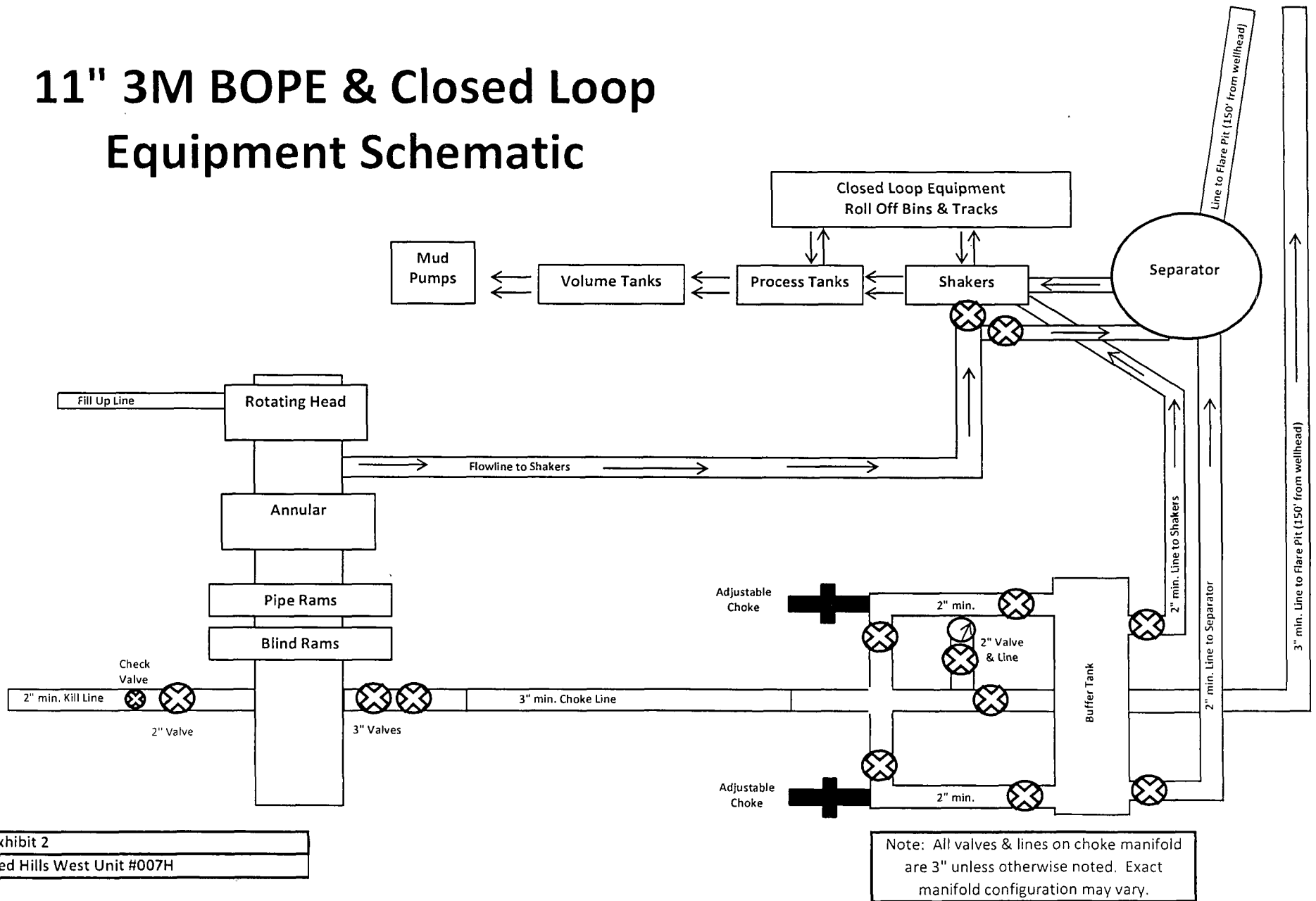


Exhibit 2
Red Hills West Unit #007H

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Red Hills West Unit #007H

330' FNL & 660' FWL (SHL)

Sec 10-T26S-R32E

Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi working pressure on 9 5/8" and 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

H2S Diagram
Closed Loop Pad Dimensions 280' x 320'

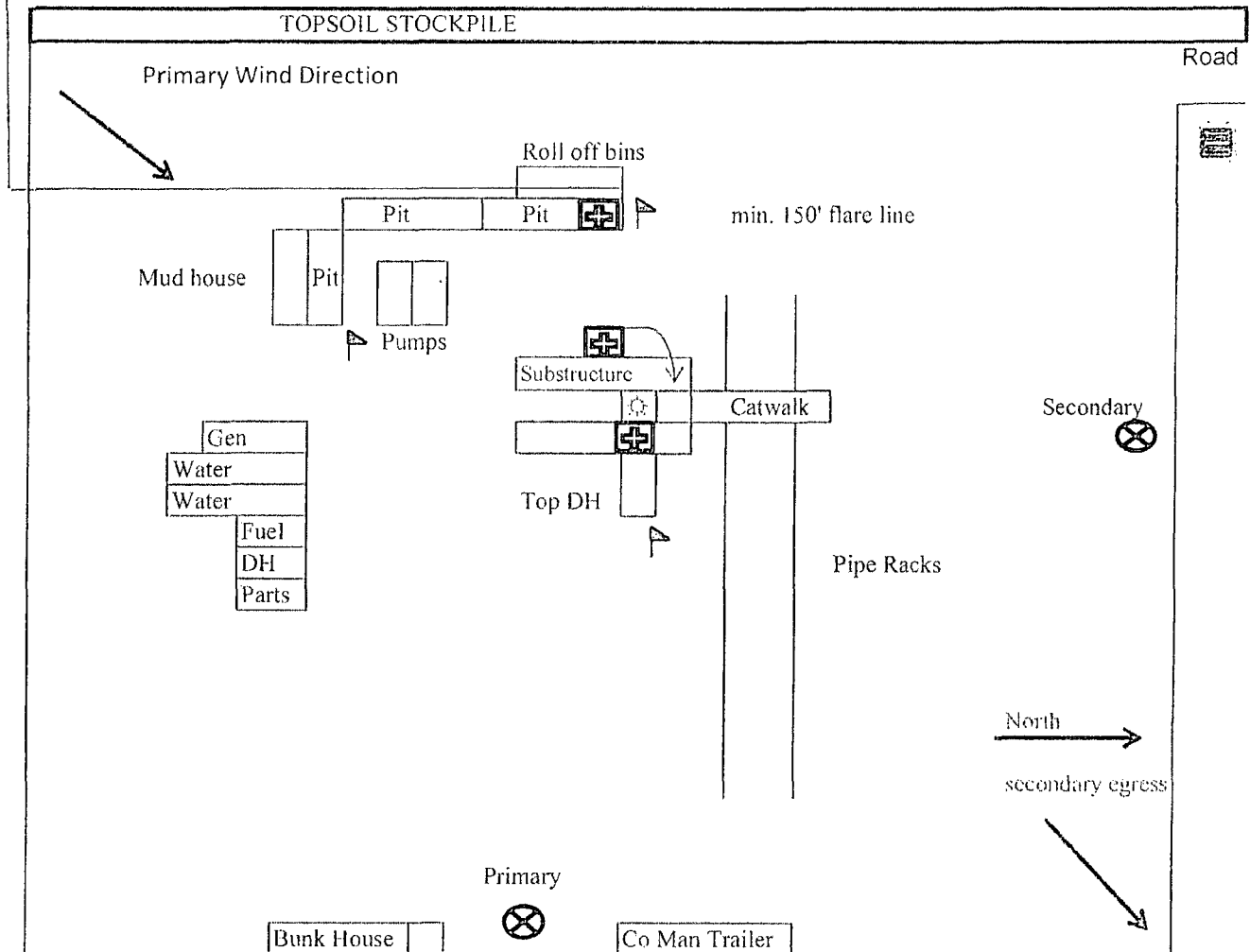


Exhibit 6

Mewbourne Oil Company
Red Hills West Unit #007H
330' FNL & 1150' FWL
Sec. 10 T26S R32E
Lea County, NM

 = Warning Signs

 = Wind Markers

 = H2S Monitors

 = Safety Stations