

Form 3160-3
(March 2012)

JUL 07 2014

SECRETARY'S POTASH

OCD Hobbs

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

HIGH CAVEKARST

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM-06570 (SL & BHL)	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Mewbourne Oil Company (14744)		7. If Unit or CA Agreement, Name and No.	
3a. Address PO Box 5270 Hobbs, NM 88241		8. Lease Name and Well No. 313443 Marathon Road 15 B3OB Federal #1H	
3b. Phone No. (include area code) 575-393-5905		9. API Well No. 30-025-41945	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 150' FSL & 2610' FEL, Sec. 15 T20S R34E At proposed prod. zone 330' FNL & 2310' FEL, Sec. 15 T20S R34E		10. Field and Pool, or Exploratory Lea Bone Spring (37570)	
14. Distance in miles and direction from nearest town or post office* 34 miles SW of Hobbs, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 15 T20S R34E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 150'		12. County or Parish Lea	
16. No. of acres in lease NM 06570 - 320		13. State NM	
17. Spacing Unit dedicated to this well 160		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 870' - Marathon Road 15 NC Fed #1H	
19. Proposed Depth 15,712' - MD 10,919' - TVD		20. BLM/BIA Bond No. on file NM-1693 nationwide, NMB-000919	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3722' GL		22. Approximate date work will start* 03/15/2014	
		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 Bradley Bishop	Name (Printed/Typed) Bradley Bishop	Date 01/22/2014
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Title

Approved by (Signature) /s/George MacDonell	Name (Printed/Typed)	Date JUL 2 - 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:

E-PERMITTING - - New Well **Ka**

Title 18 U.S. States any ft. **Comp** P&A **TA**

CSNG Loc CHG

(Contin) ReComp **Add New Pool Ka**

Cancel Well **Create Pool**

APPROVAL FOR TWO YEARS

for any person knowingly and willfully to make to any department or agency of the United States any matter within its jurisdiction.

*(Instructions on page 2)

Caoitan Controlled Water Basin

Ka
07/07/14SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

JUL 08 2014

Ka

Mewbourne Oil Company

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

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 22 day of JANUARY, 2014.

Name: NM Young

Signature: Bradley 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

1111 08 2014

Drilling Program
Mewbourne Oil Company
Marathon Road 15 B3OB Federal #1H
150' FSL & 2610' FEL (SHL)
Sec 15-T20S-R34E
Lea County, New Mexico

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

Rustler	1600'
Top Salt	1800'
Base Salt/Tansill	3220'
Yates	3420'
Queen	NP
Capitan	3930'
Grayburg	NP
San Andres	NP
Glorieta	NP
Yeso	NP
Delaware (Lamar)	5440'
Bone Spring	8300'
1 st Bone Spring Sand	9500'
2 nd Bone Spring Sand	9980'
3 rd Bone Spring Sand	10690'

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

Water	Fresh water is anticipated at 150' and will be protected by setting surface casing at 1625' ^{1725'} 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" 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 13 3/8" annular to 1500# and the 9 5/8" 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 10472' & kick off to horizontal @ 10950' TVD. The well will be drilled to 15712' MD (10919' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-1000' ^{1725'}	ST&C
17 1/2"	13 3/8" (new)	54.5#	J55	1000'- 1625'	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'-4350'	LT&C
12 1/4"	9 5/8" (new)	40#	HCL80	4350'-5400'	LT&C
8 3/4"	5 1/2" (new)	17#	P110	0-10472' MD	LT&C
8 3/4"	5 1/2" (new)	17#	P110	10472'-11225' MD	BT&C
8 3/4"	5 1/2" (new)	17#	P110	11225'-15712' 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: 1000 sacks Class "C" (35:65:4) light cement w/ 1% CaCl₂ & LCM additives. Yield at 2.0 cuft/sk. Mix water @ 11.17 gal/sk. 200 sacks Class "C" cement w/ 1% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to surface w/100% excess.
- ii. Intermediate Casing: 920 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/1% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 900 sacks Class H light cement with fluid loss, LCM, & salt additives. Yield at 2.63 cuft/sk. Mix water @ 14.95 gal/sk. Tail w/ 1100 sacks Class H cmt. Yield at 1.21 cuft/sk. Mix water @ 5.3 gal/sk. Calculated to tie back 50' above the top of the Capitan Reef @ 3930' w/25% excess.

See COT

See COT

*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:

See COT

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-1625'	FW spud mud	8.6-9.0	32-34	NA
1625'-5400'	Brine water	10.0-10.2	28-30	NA
5400'-10472'	FW	8.3-8.6	28-30	NA
10472'- 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:

See COT

Samples:	10' samples from surface casing to TD
Logging:	GR, CN & Gyro 100' above KOP (10372') to surface. GR from 10372' to TD.

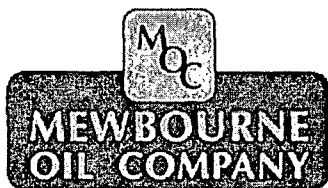
8. Downhole Conditions

See COT

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 10950' = 4749 psi)
MOC does not anticipate H ₂ S, However H ₂ S contingency plan is attached.	

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 15-20S- 34 E Marathon Road 15 B3OB

Marathon Road 15 B3OB Federal #1H

Original Hole

Plan: Plan#1

Standard Planning Report

31 December, 2013





Stryker Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	North Reference:	Grid:
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

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 15-20S- 34 E Marathon Road 15 B3OB		
Site Position:		Northings:	570,575.10 usft
From:	Map	Easting:	742,098.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 33' 58.181 N
		Longitude:	103° 32' 51.003 W
		Grid Convergence:	0.42 °

Well	Marathon Road 15 B3OB Federal #1H		
Well Position	+N/-S	0.0 usft	Northings:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 33' 58.181 N
		Longitude:	103° 32' 51.003 W
		Ground Level:	3,649.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	12/31/2013	7.29	60.44	48,568

Design	Plan#1		
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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	3.23

Plan Sections:										
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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	
10,472.2	0.00	0.00	10,472.2	0.0	0.0	0.00	0.00	0.00	0.00	
11,225.4	90.39	32.40	10,949.6	405.9	257.6	12.00	12.00	4.30	32.40	
11,317.6	90.39	32.40	10,949.0	483.7	307.0	0.00	0.00	0.00	0.00	LP Marathon Road
12,595.6	90.39	354.06	10,940.0	1,704.7	594.0	3.00	0.00	-3.00	-89.87	
15,712.1	90.39	354.06	10,919.0	4,804.4	271.5	0.00	0.00	0.00	0.00	PBHL Marathon Ro



Stryker Directional Planning Report



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Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S-34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#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



Stryker Directional Planning Report



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Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
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Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#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)	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,472.2	0.00	0.00	10,472.2	0.0	0.0	0.0	0.00	0.00	0.00	



Stryker Directional Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#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)
10472.2' MD KOP									
10,475.0	0.34	32.40	10,475.0	0.0	0.0	0.0	12.13	12.13	0.00
10,500.0	3.34	32.40	10,500.0	0.7	0.4	0.7	12.00	12.00	0.00
10,525.0	6.34	32.40	10,524.9	2.5	1.6	2.5	12.00	12.00	0.00
10,550.0	9.34	32.40	10,549.7	5.3	3.4	5.5	12.00	12.00	0.00
10,575.0	12.34	32.40	10,574.2	9.3	5.9	9.6	12.00	12.00	0.00
10,600.0	15.34	32.40	10,598.5	14.4	9.1	14.9	12.00	12.00	0.00
10,625.0	18.34	32.40	10,622.4	20.5	13.0	21.2	12.00	12.00	0.00
10,650.0	21.34	32.40	10,645.9	27.6	17.5	28.6	12.00	12.00	0.00
10,675.0	24.34	32.40	10,669.0	35.8	22.7	37.1	12.00	12.00	0.00
10,700.0	27.34	32.40	10,691.5	45.0	28.6	46.6	12.00	12.00	0.00
10,725.0	30.34	32.40	10,713.3	55.2	35.0	57.1	12.00	12.00	0.00
10,750.0	33.34	32.40	10,734.6	66.3	42.1	68.6	12.00	12.00	0.00
10,775.0	36.34	32.40	10,755.1	78.4	49.8	81.1	12.00	12.00	0.00
10,800.0	39.34	32.40	10,774.8	91.3	58.0	94.5	12.00	12.00	0.00
10,825.0	42.34	32.40	10,793.8	105.2	66.7	108.7	12.00	12.00	0.00
10,850.0	45.34	32.40	10,811.8	119.8	76.0	123.9	12.00	12.00	0.00
10,875.0	48.34	32.40	10,828.9	135.2	85.8	139.8	12.00	12.00	0.00
10,900.0	51.34	32.40	10,845.0	151.3	96.0	156.5	12.00	12.00	0.00
10,925.0	54.34	32.40	10,860.1	168.1	106.7	173.9	12.00	12.00	0.00
10,950.0	57.34	32.40	10,874.1	185.6	117.8	191.9	12.00	12.00	0.00
10,975.0	60.34	32.40	10,887.1	203.6	129.2	210.6	12.00	12.00	0.00
11,000.0	63.34	32.40	10,898.9	222.2	141.0	229.8	12.00	12.00	0.00
11,025.0	66.34	32.40	10,909.5	241.3	153.2	249.6	12.00	12.00	0.00
11,050.0	69.34	32.40	10,918.9	260.9	165.6	269.8	12.00	12.00	0.00
11,075.0	72.34	32.40	10,927.1	280.8	178.2	290.4	12.00	12.00	0.00
11,100.0	75.34	32.40	10,934.1	301.1	191.1	311.4	12.00	12.00	0.00
11,125.0	78.34	32.40	10,939.8	321.7	204.1	332.7	12.00	12.00	0.00
11,150.0	81.34	32.40	10,944.2	342.4	217.3	354.1	12.00	12.00	0.00
11,175.0	84.34	32.40	10,947.3	363.4	230.6	375.8	12.00	12.00	0.00
11,200.0	87.34	32.40	10,949.1	384.4	244.0	397.6	12.00	12.00	0.00
11,225.4	90.39	32.40	10,949.6	405.9	257.6	419.7	12.00	12.00	0.00
11,300.0	90.39	32.40	10,949.1	468.8	297.6	484.9	0.00	0.00	0.00
11,317.6	90.39	32.40	10,949.0	483.7	307.0	500.2	0.00	0.00	0.00
11317.6' MD LP - Begin 3°/100' Turn									
11,400.0	90.39	29.93	10,948.4	554.2	349.6	573.0	3.00	0.01	-3.00
11,500.0	90.40	26.93	10,947.7	642.1	397.2	663.5	3.00	0.01	-3.00
11,600.0	90.40	23.93	10,947.0	732.4	440.2	756.1	3.00	0.00	-3.00
11,700.0	90.41	20.93	10,946.3	824.9	478.3	850.5	3.00	0.00	-3.00
11,800.0	90.41	17.93	10,945.6	919.1	511.6	946.5	3.00	0.00	-3.00
11,900.0	90.41	14.93	10,944.9	1,015.1	539.8	1,043.9	3.00	0.00	-3.00
12,000.0	90.41	11.93	10,944.2	1,112.3	563.1	1,142.3	3.00	0.00	-3.00
12,100.0	90.41	8.93	10,943.5	1,210.6	581.2	1,241.5	3.00	0.00	-3.00
12,200.0	90.41	5.93	10,942.8	1,309.8	594.1	1,341.2	3.00	0.00	-3.00
12,300.0	90.40	2.93	10,942.1	1,409.5	601.8	1,441.2	3.00	0.00	-3.00
12,400.0	90.40	359.93	10,941.4	1,509.4	604.3	1,541.1	3.00	0.00	-3.00
12,500.0	90.39	356.93	10,940.7	1,609.4	601.5	1,640.7	3.00	-0.01	-3.00
12,595.6	90.39	354.06	10,940.0	1,704.7	594.0	1,735.5	3.00	-0.01	-3.00
12,600.0	90.39	354.06	10,940.0	1,709.0	593.6	1,739.8	0.00	0.00	0.00
12,700.0	90.39	354.06	10,939.3	1,808.5	583.2	1,838.5	0.00	0.00	0.00
12,800.0	90.39	354.06	10,938.6	1,908.0	572.9	1,937.2	0.00	0.00	0.00
12,900.0	90.39	354.06	10,938.0	2,007.4	562.5	2,036.0	0.00	0.00	0.00
13,000.0	90.39	354.06	10,937.3	2,106.9	552.2	2,134.7	0.00	0.00	0.00



Stryker Directional

Planning Report

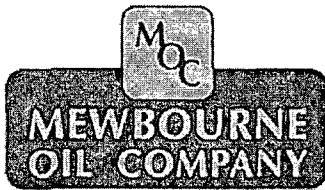


Database:	EDM 5000.1 Single-User.Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S-34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#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)
13,100.0	90.39	354.06	10,936.6	2,206.3	541.8	2,233.4	0.00	0.00	0.00
13,200.0	90.39	354.06	10,935.9	2,305.8	531.5	2,332.1	0.00	0.00	0.00
13,300.0	90.39	354.06	10,935.3	2,405.3	521.1	2,430.8	0.00	0.00	0.00
13,400.0	90.39	354.06	10,934.6	2,504.7	510.8	2,529.6	0.00	0.00	0.00
13,500.0	90.39	354.06	10,933.9	2,604.2	500.4	2,628.3	0.00	0.00	0.00
13,600.0	90.39	354.06	10,933.2	2,703.7	490.1	2,727.0	0.00	0.00	0.00
13,700.0	90.39	354.06	10,932.6	2,803.1	479.7	2,825.7	0.00	0.00	0.00
13,800.0	90.39	354.06	10,931.9	2,902.6	469.4	2,924.4	0.00	0.00	0.00
13,900.0	90.39	354.06	10,931.2	3,002.0	459.0	3,023.1	0.00	0.00	0.00
14,000.0	90.39	354.06	10,930.6	3,101.5	448.7	3,121.9	0.00	0.00	0.00
14,100.0	90.39	354.06	10,929.9	3,201.0	438.3	3,220.6	0.00	0.00	0.00
14,200.0	90.39	354.06	10,929.2	3,300.4	428.0	3,319.3	0.00	0.00	0.00
14,300.0	90.39	354.06	10,928.5	3,399.9	417.6	3,418.0	0.00	0.00	0.00
14,400.0	90.39	354.06	10,927.9	3,499.3	407.3	3,516.7	0.00	0.00	0.00
14,500.0	90.39	354.06	10,927.2	3,598.8	396.9	3,615.5	0.00	0.00	0.00
14,600.0	90.39	354.06	10,926.5	3,698.3	386.6	3,714.2	0.00	0.00	0.00
14,700.0	90.39	354.06	10,925.8	3,797.7	376.2	3,812.9	0.00	0.00	0.00
14,800.0	90.39	354.06	10,925.2	3,897.2	365.9	3,911.6	0.00	0.00	0.00
14,900.0	90.39	354.06	10,924.5	3,996.6	355.5	4,010.3	0.00	0.00	0.00
15,000.0	90.39	354.06	10,923.8	4,096.1	345.2	4,109.0	0.00	0.00	0.00
15,100.0	90.39	354.06	10,923.1	4,195.6	334.8	4,207.8	0.00	0.00	0.00
15,200.0	90.39	354.06	10,922.5	4,295.0	324.5	4,306.5	0.00	0.00	0.00
15,300.0	90.39	354.06	10,921.8	4,394.5	314.1	4,405.2	0.00	0.00	0.00
15,400.0	90.39	354.06	10,921.1	4,493.9	303.8	4,503.9	0.00	0.00	0.00
15,500.0	90.39	354.06	10,920.4	4,593.4	293.4	4,602.6	0.00	0.00	0.00
15,600.0	90.39	354.06	10,919.8	4,692.9	283.1	4,701.4	0.00	0.00	0.00
15,700.0	90.39	354.06	10,919.1	4,792.3	272.7	4,800.1	0.00	0.00	0.00
15,712.1	90.39	354.06	10,919.0	4,804.4	271.5	4,812.0	0.00	0.00	0.00

15712.1' MD PBHL

Wellbore 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									
- Point									
PBHL Marathon Road	0.00	0.00	10,919.0	4,804.4	271.5	575,379.49	742,369.85	32° 34' 45.700 N	103° 32' 47.416 W
- plan hits target center									
- Point									
LP Marathon Road 15	0.00	0.00	10,949.0	483.7	307.0	571,058.78	742,405.37	32° 34' 2.944 N	103° 32' 47.375 W
- plan hits target center									
- Point									



Mewbourne Oil Company .

Lea County N.M.

Section 15-20S- 34 E Marathon Road 15 B3OB

Marathon Road 15 B3OB Federal #1H

Original Hole

Plan: Plan#1

Standard Planning Report - Geographic

31 December, 2013





Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

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 15-20S- 34 E Marathon Road 15 B3OB		
Site Position:		Northing:	570,575.10 usft
From:	Map	Easting:	742,098.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 33' 58.181 N
		Longitude:	103° 32' 51.003 W
		Grid Convergence:	0.42 °

Well	Marathon Road 15 B3OB Federal #1H					
Well Position	+N/-S	0.0 usft	Northing:	570,575.10 usft	Latitude:	32° 33' 58.181 N
	+E/-W	0.0 usft	Easting:	742,098.40 usft	Longitude:	103° 32' 51.003 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,649.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2013	7.29	60.44	48,568

Design	Plan#1		
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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	3.23

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	
10,472.2	0.00	0.00	10,472.2	0.0	0.0	0.00	0.00	0.00	0.00	
11,225.4	90.39	32.40	10,949.6	405.9	257.6	12.00	12.00	4.30	32.40	
11,317.6	90.39	32.40	10,949.0	483.7	307.0	0.00	0.00	0.00	0.00	LP Marathon Road
12,595.6	90.39	354.06	10,940.0	1,704.7	594.0	3.00	0.00	-3.00	-89.87	
15,712.1	90.39	354.06	10,919.0	4,804.4	271.5	0.00	0.00	0.00	0.00	PBHL Marathon Ro



Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S- 34'E Marathon Road- 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

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	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
100.0	0.00	0.00	100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
200.0	0.00	0.00	200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
300.0	0.00	0.00	300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
400.0	0.00	0.00	400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
500.0	0.00	0.00	500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
600.0	0.00	0.00	600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
700.0	0.00	0.00	700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
800.0	0.00	0.00	800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
900.0	0.00	0.00	900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W



Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company .	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

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	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,800.0	0.00	0.00	8,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,000.0	0.00	0.00	9,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,100.0	0.00	0.00	9,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
10,200.0	0.00	0.00	10,200.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
10,300.0	0.00	0.00	10,300.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
10,400.0	0.00	0.00	10,400.0	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
10,472.2	0.00	0.00	10,472.2	0.0	0.0	570,575.10	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	
10472.2' MD KOP										
10,475.0	0.34	32.40	10,475.0	0.0	0.0	570,575.11	742,098.40	32° 33' 58.181 N	103° 32' 51.003 W	



Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,500.0	3.34	32.40	10,500.0	0.7	0.4	570,575.79	742,098.83	32° 33' 58.187 N	103° 32' 50.998 W
10,525.0	6.34	32.40	10,524.9	2.5	1.6	570,577.57	742,099.96	32° 33' 58.205 N	103° 32' 50.985 W
10,550.0	9.34	32.40	10,549.7	5.3	3.4	570,580.45	742,101.79	32° 33' 58.233 N	103° 32' 50.963 W
10,575.0	12.34	32.40	10,574.2	9.3	5.9	570,584.42	742,104.31	32° 33' 58.272 N	103° 32' 50.933 W
10,600.0	15.34	32.40	10,598.5	14.4	9.1	570,589.46	742,107.51	32° 33' 58.322 N	103° 32' 50.895 W
10,625.0	18.34	32.40	10,622.4	20.5	13.0	570,595.58	742,111.39	32° 33' 58.382 N	103° 32' 50.850 W
10,650.0	21.34	32.40	10,645.9	27.6	17.5	570,602.74	742,115.94	32° 33' 58.453 N	103° 32' 50.796 W
10,675.0	24.34	32.40	10,669.0	35.8	22.7	570,610.93	742,121.14	32° 33' 58.534 N	103° 32' 50.734 W
10,700.0	27.34	32.40	10,691.5	45.0	28.6	570,620.13	742,126.97	32° 33' 58.624 N	103° 32' 50.665 W
10,725.0	30.34	32.40	10,713.3	55.2	35.0	570,630.31	742,133.44	32° 33' 58.724 N	103° 32' 50.589 W
10,750.0	33.34	32.40	10,734.6	66.3	42.1	570,641.45	742,140.50	32° 33' 58.834 N	103° 32' 50.506 W
10,775.0	36.34	32.40	10,755.1	78.4	49.8	570,653.50	742,148.15	32° 33' 58.953 N	103° 32' 50.415 W
10,800.0	39.34	32.40	10,774.8	91.3	58.0	570,666.45	742,156.37	32° 33' 59.080 N	103° 32' 50.318 W
10,825.0	42.34	32.40	10,793.8	105.2	66.7	570,680.25	742,165.13	32° 33' 59.216 N	103° 32' 50.214 W
10,850.0	45.34	32.40	10,811.8	119.8	76.0	570,694.87	742,174.41	32° 33' 59.360 N	103° 32' 50.105 W
10,875.0	48.34	32.40	10,828.9	135.2	85.8	570,710.27	742,184.18	32° 33' 59.512 N	103° 32' 49.989 W
10,900.0	51.34	32.40	10,845.0	151.3	96.0	570,726.40	742,194.42	32° 33' 59.671 N	103° 32' 49.868 W
10,925.0	54.34	32.40	10,860.1	168.1	106.7	570,743.22	742,205.09	32° 33' 59.836 N	103° 32' 49.742 W
10,950.0	57.34	32.40	10,874.1	185.6	117.8	570,760.68	742,216.17	32° 34' 0.008 N	103° 32' 49.611 W
10,975.0	60.34	32.40	10,887.1	203.6	129.2	570,778.74	742,227.64	32° 34' 0.186 N	103° 32' 49.476 W
11,000.0	63.34	32.40	10,898.9	222.2	141.0	570,797.35	742,239.45	32° 34' 0.369 N	103° 32' 49.336 W
11,025.0	66.34	32.40	10,909.5	241.3	153.2	570,816.45	742,251.57	32° 34' 0.558 N	103° 32' 49.193 W
11,050.0	69.34	32.40	10,918.9	260.9	165.6	570,836.00	742,263.97	32° 34' 0.750 N	103° 32' 49.046 W
11,075.0	72.34	32.40	10,927.1	280.8	178.2	570,855.93	742,276.63	32° 34' 0.946 N	103° 32' 48.896 W
11,100.0	75.34	32.40	10,934.1	301.1	191.1	570,876.21	742,289.49	32° 34' 1.146 N	103° 32' 48.744 W
11,125.0	78.34	32.40	10,939.8	321.7	204.1	570,896.76	742,302.54	32° 34' 1.349 N	103° 32' 48.590 W
11,150.0	81.34	32.40	10,944.2	342.4	217.3	570,917.53	742,315.72	32° 34' 1.553 N	103° 32' 48.434 W
11,175.0	84.34	32.40	10,947.3	363.4	230.6	570,938.47	742,329.01	32° 34' 1.759 N	103° 32' 48.277 W
11,200.0	87.34	32.40	10,949.1	384.4	244.0	570,959.52	742,342.37	32° 34' 1.967 N	103° 32' 48.119 W
11,225.4	90.39	32.40	10,949.6	405.9	257.6	570,980.96	742,355.98	32° 34' 2.178 N	103° 32' 47.959 W
11,300.0	90.39	32.40	10,949.1	468.8	297.6	571,043.95	742,395.95	32° 34' 2.798 N	103° 32' 47.486 W
11,317.6	90.39	32.40	10,949.0	483.7	307.0	571,058.80	742,405.38	32° 34' 2.944 N	103° 32' 47.375 W
11317.6' MD LP - Begin 3°/100' Turn									
11,400.0	90.39	29.93	10,948.4	554.2	349.6	571,129.31	742,448.02	32° 34' 3.639 N	103° 32' 46.870 W
11,500.0	90.40	26.93	10,947.7	642.1	397.2	571,217.23	742,495.62	32° 34' 4.505 N	103° 32' 46.306 W
11,600.0	90.40	23.93	10,947.0	732.4	440.2	571,307.53	742,538.55	32° 34' 5.396 N	103° 32' 45.797 W
11,700.0	90.41	20.93	10,946.3	824.9	478.3	571,399.96	742,576.70	32° 34' 6.308 N	103° 32' 45.343 W
11,800.0	90.41	17.93	10,945.6	919.1	511.6	571,494.25	742,609.95	32° 34' 7.238 N	103° 32' 44.947 W
11,900.0	90.41	14.93	10,944.9	1,015.1	539.8	571,590.15	742,638.23	32° 34' 8.185 N	103° 32' 44.608 W
12,000.0	90.41	11.93	10,944.2	1,112.3	563.1	571,687.41	742,661.45	32° 34' 9.146 N	103° 32' 44.328 W
12,100.0	90.41	8.93	10,943.5	1,210.6	581.2	571,785.74	742,679.55	32° 34' 10.117 N	103° 32' 44.108 W
12,200.0	90.41	5.93	10,942.8	1,309.8	594.1	571,884.89	742,692.48	32° 34' 11.097 N	103° 32' 43.948 W
12,300.0	90.40	2.93	10,942.1	1,409.5	601.8	571,984.58	742,700.20	32° 34' 12.083 N	103° 32' 43.850 W
12,400.0	90.40	359.93	10,941.4	1,509.4	604.3	572,084.53	742,702.69	32° 34' 13.072 N	103° 32' 43.812 W
12,500.0	90.39	356.93	10,940.7	1,609.4	601.5	572,184.48	742,699.94	32° 34' 14.061 N	103° 32' 43.835 W
12,595.6	90.39	354.06	10,940.0	1,704.7	594.0	572,279.81	742,692.43	32° 34' 15.005 N	103° 32' 43.915 W
12,600.0	90.39	354.06	10,940.0	1,709.0	593.6	572,284.15	742,691.98	32° 34' 15.048 N	103° 32' 43.920 W
12,700.0	90.39	354.06	10,939.3	1,808.5	583.2	572,383.61	742,681.63	32° 34' 16.033 N	103° 32' 44.032 W
12,800.0	90.39	354.06	10,938.6	1,908.0	572.9	572,483.07	742,671.28	32° 34' 17.018 N	103° 32' 44.144 W
12,900.0	90.39	354.06	10,938.0	2,007.4	562.5	572,582.53	742,660.93	32° 34' 18.003 N	103° 32' 44.257 W
13,000.0	90.39	354.06	10,937.3	2,106.9	552.2	572,681.99	742,650.58	32° 34' 18.988 N	103° 32' 44.369 W
13,100.0	90.39	354.06	10,936.6	2,206.3	541.8	572,781.45	742,640.22	32° 34' 19.973 N	103° 32' 44.482 W
13,200.0	90.39	354.06	10,935.9	2,305.8	531.5	572,880.91	742,629.87	32° 34' 20.958 N	103° 32' 44.594 W
13,300.0	90.39	354.06	10,935.3	2,405.3	521.1	572,980.37	742,619.52	32° 34' 21.942 N	103° 32' 44.706 W



Stryker Directional

Planning Report - Geographic



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Project:	Lea County N.M.	MD Reference:	GL 3649 + 20 @ 3669.0usft (Trinidad #110)
Site:	Section 15-20S-34 E Marathon Road 15 B3OB	North Reference:	Grid
Well:	Marathon Road 15 B3OB Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
13,400.0	90.39	354.06	10,934.6	2,504.7	510.8	573,079.83	742,609.17	32° 34' 22.927 N	103° 32' 44.819 W	
13,500.0	90.39	354.06	10,933.9	2,604.2	500.4	573,179.29	742,598.82	32° 34' 23.912 N	103° 32' 44.931 W	
13,600.0	90.39	354.06	10,933.2	2,703.7	490.1	573,278.75	742,588.47	32° 34' 24.897 N	103° 32' 45.043 W	
13,700.0	90.39	354.06	10,932.6	2,803.1	479.7	573,378.21	742,578.12	32° 34' 25.882 N	103° 32' 45.156 W	
13,800.0	90.39	354.06	10,931.9	2,902.6	469.4	573,477.68	742,567.77	32° 34' 26.867 N	103° 32' 45.268 W	
13,900.0	90.39	354.06	10,931.2	3,002.0	459.0	573,577.14	742,557.42	32° 34' 27.852 N	103° 32' 45.380 W	
14,000.0	90.39	354.06	10,930.6	3,101.5	448.7	573,676.60	742,547.07	32° 34' 28.837 N	103° 32' 45.493 W	
14,100.0	90.39	354.06	10,929.9	3,201.0	438.3	573,776.06	742,536.72	32° 34' 29.822 N	103° 32' 45.605 W	
14,200.0	90.39	354.06	10,929.2	3,300.4	428.0	573,875.52	742,526.37	32° 34' 30.807 N	103° 32' 45.717 W	
14,300.0	90.39	354.06	10,928.5	3,399.9	417.6	573,974.98	742,516.01	32° 34' 31.792 N	103° 32' 45.830 W	
14,400.0	90.39	354.06	10,927.9	3,499.3	407.3	574,074.44	742,505.66	32° 34' 32.776 N	103° 32' 45.942 W	
14,500.0	90.39	354.06	10,927.2	3,598.8	396.9	574,173.90	742,495.31	32° 34' 33.761 N	103° 32' 46.054 W	
14,600.0	90.39	354.06	10,926.5	3,698.3	386.6	574,273.36	742,484.96	32° 34' 34.746 N	103° 32' 46.167 W	
14,700.0	90.39	354.06	10,925.8	3,797.7	376.2	574,372.82	742,474.61	32° 34' 35.731 N	103° 32' 46.279 W	
14,800.0	90.39	354.06	10,925.2	3,897.2	365.9	574,472.28	742,464.26	32° 34' 36.716 N	103° 32' 46.392 W	
14,900.0	90.39	354.06	10,924.5	3,996.6	355.5	574,571.74	742,453.91	32° 34' 37.701 N	103° 32' 46.504 W	
15,000.0	90.39	354.06	10,923.8	4,096.1	345.2	574,671.20	742,443.56	32° 34' 38.686 N	103° 32' 46.616 W	
15,100.0	90.39	354.06	10,923.1	4,195.6	334.8	574,770.66	742,433.21	32° 34' 39.671 N	103° 32' 46.729 W	
15,200.0	90.39	354.06	10,922.5	4,295.0	324.5	574,870.12	742,422.86	32° 34' 40.656 N	103° 32' 46.841 W	
15,300.0	90.39	354.06	10,921.8	4,394.5	314.1	574,969.58	742,412.51	32° 34' 41.641 N	103° 32' 46.953 W	
15,400.0	90.39	354.06	10,921.1	4,493.9	303.8	575,069.04	742,402.16	32° 34' 42.626 N	103° 32' 47.066 W	
15,500.0	90.39	354.06	10,920.4	4,593.4	293.4	575,168.50	742,391.81	32° 34' 43.610 N	103° 32' 47.178 W	
15,600.0	90.39	354.06	10,919.8	4,692.9	283.1	575,267.97	742,381.45	32° 34' 44.595 N	103° 32' 47.290 W	
15,700.0	90.39	354.06	10,919.1	4,792.3	272.7	575,367.43	742,371.10	32° 34' 45.580 N	103° 32' 47.403 W	
15,712.1	90.39	354.06	10,919.0	4,804.4	271.5	575,379.46	742,369.85	32° 34' 45.699 N	103° 32' 47.416 W	
15712.1' MD PBHL										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL Marathon Road	- plan hits target center	0.00	0.00	10,919.0	4,804.4	271.5	575,379.49	742,369.85	32° 34' 45.700 N	103° 32' 47.416 W
- Point										
LP Marathon Road 15	- plan hits target center	0.00	0.00	10,949.0	483.7	307.0	571,058.78	742,405.37	32° 34' 2.944 N	103° 32' 47.375 W
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
10,472.2	10,472.2	0.0	0.0	10472.2' MD KOP	
11,317.6	10,949.0	483.7	307.0	11317.6' MD LP	
11,317.6	10,949.0	483.7	307.0	Begin 3°/100' Turn	
15,712.1	10,919.0	4,804.4	271.5	15712.1' MD PBHL	

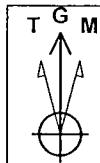


COMPANY: Mewbourne Oil Company
WELL: Marathon Road 15 B3OB Federal #1H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Trinidad #110



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.86°

OFFICE: 936.582.7296



Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.86°

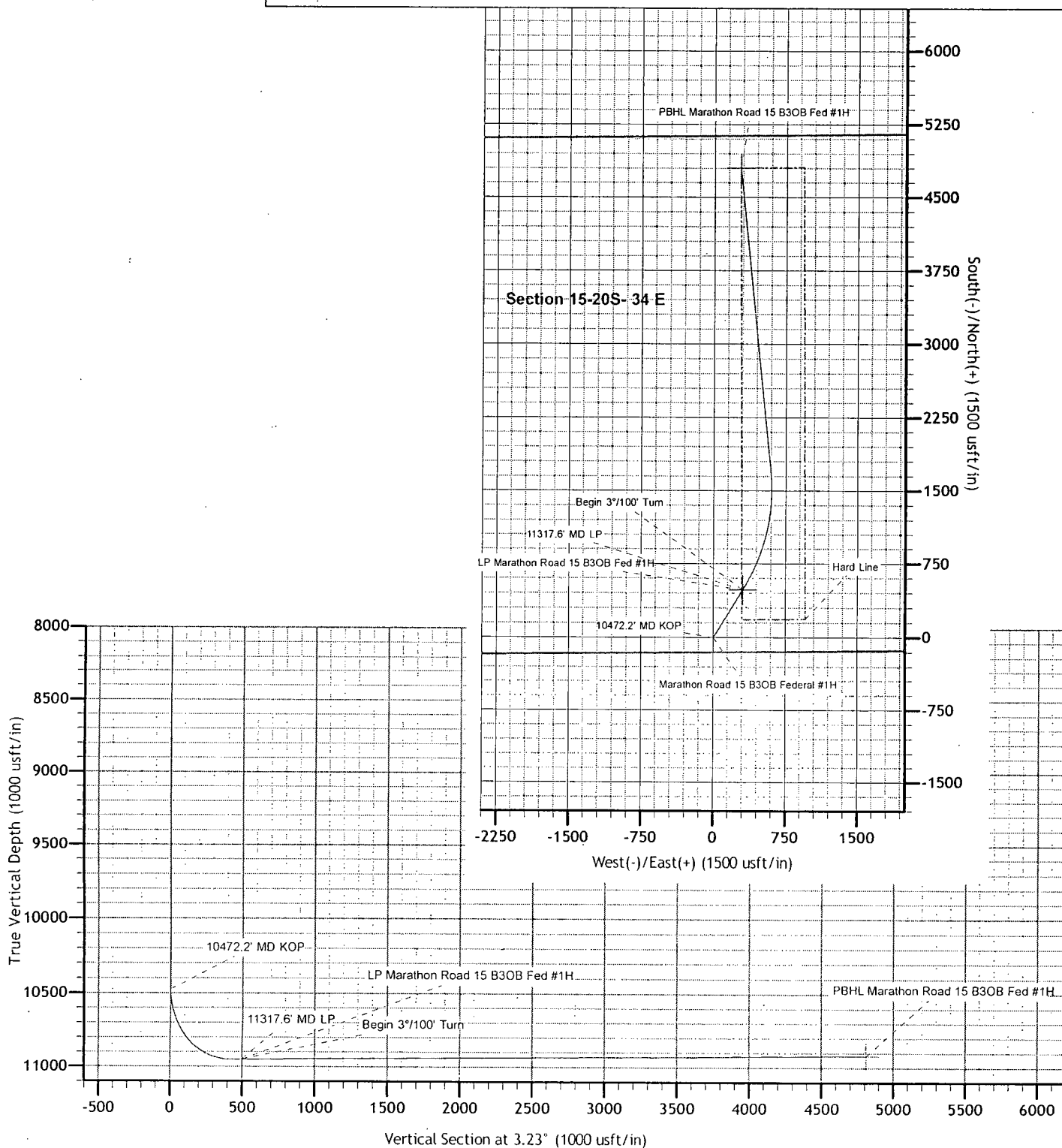
Magnetic Field
Strength: 48568.2nT
Dip Angle: 60.44°
Date: 12/31/2013
Model: IGRF2010

GEODETIC ZONE: New Mexico East 3001
GL 3649 + 20 @ 3669.0usft (Trinidad #110)
GROUND ELEVATION: 3649.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	570575.10	742098.40	32° 33' 58.181 N	103° 32' 51.003 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10472.2	0.00	0.00	10472.2	0.0	0.0	0.00	0.00	0.0	
3	11225.4	90.39	32.40	10949.6	405.9	257.6	12.00	32.40	419.7	
4	11317.6	90.39	32.40	10949.0	483.7	307.0	0.00	0.00	500.2	LP Marathon Road 15 B3OB Fed #1H
5	12595.6	90.39	354.06	10940.0	1704.7	594.0	3.00	-89.87	1735.5	
6	15712.1	90.39	354.06	10919.0	4804.4	271.5	0.00	0.00	4812.1	PBHL Marathon Road 15 B3OB Fed #1H



Notes Regarding Blowout Preventer

Mewbourne Oil Company

Marathon Road 15 B3OB Federal #1H

150' FSL & 2610' FEL (SHL)

Sec 15-T20S-R34E

Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 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.

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

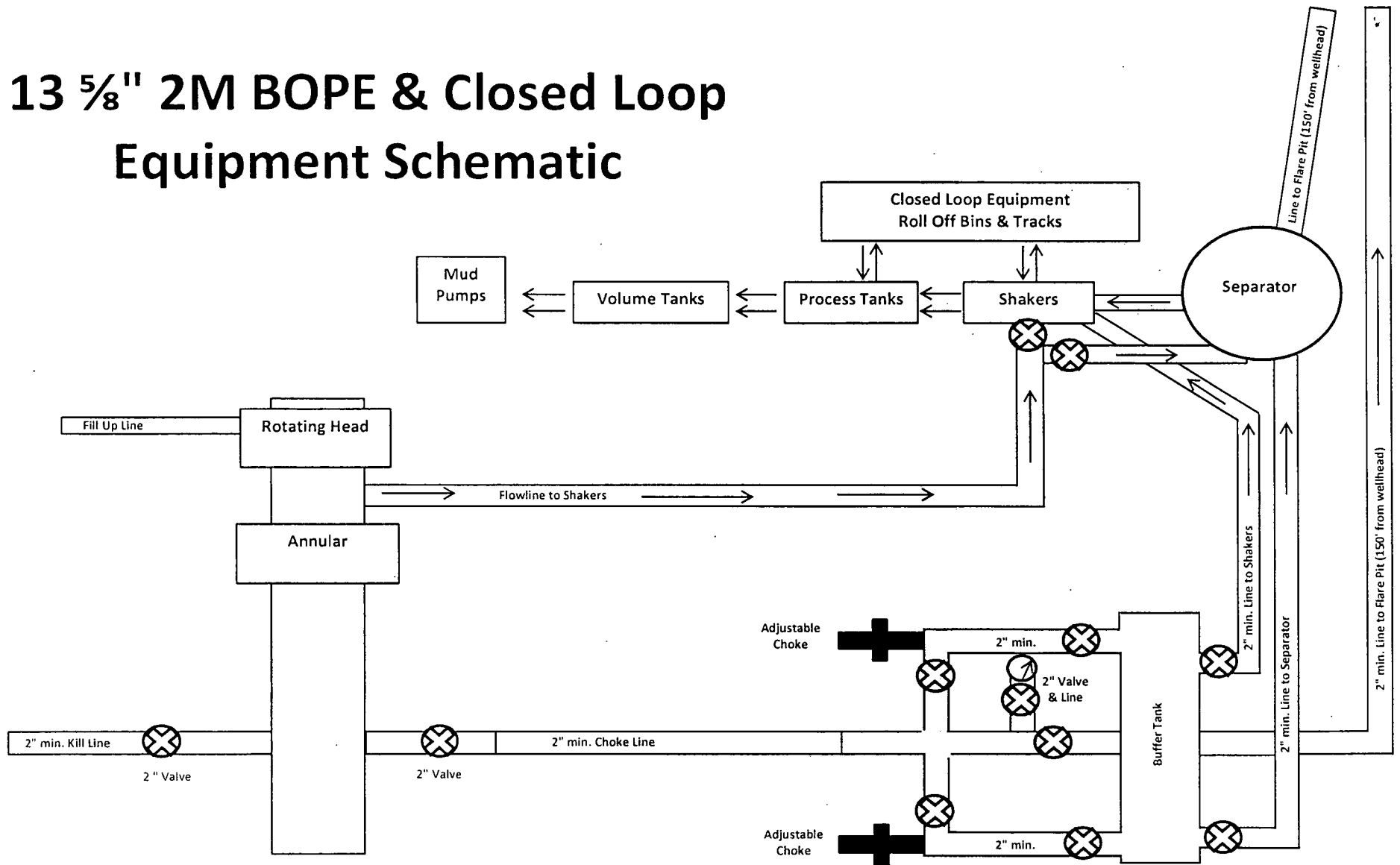


Exhibit 2A
Marathon Road 15 B3OB Fed #1H

11" 3M BOPE & Closed Loop Equipment Schematic

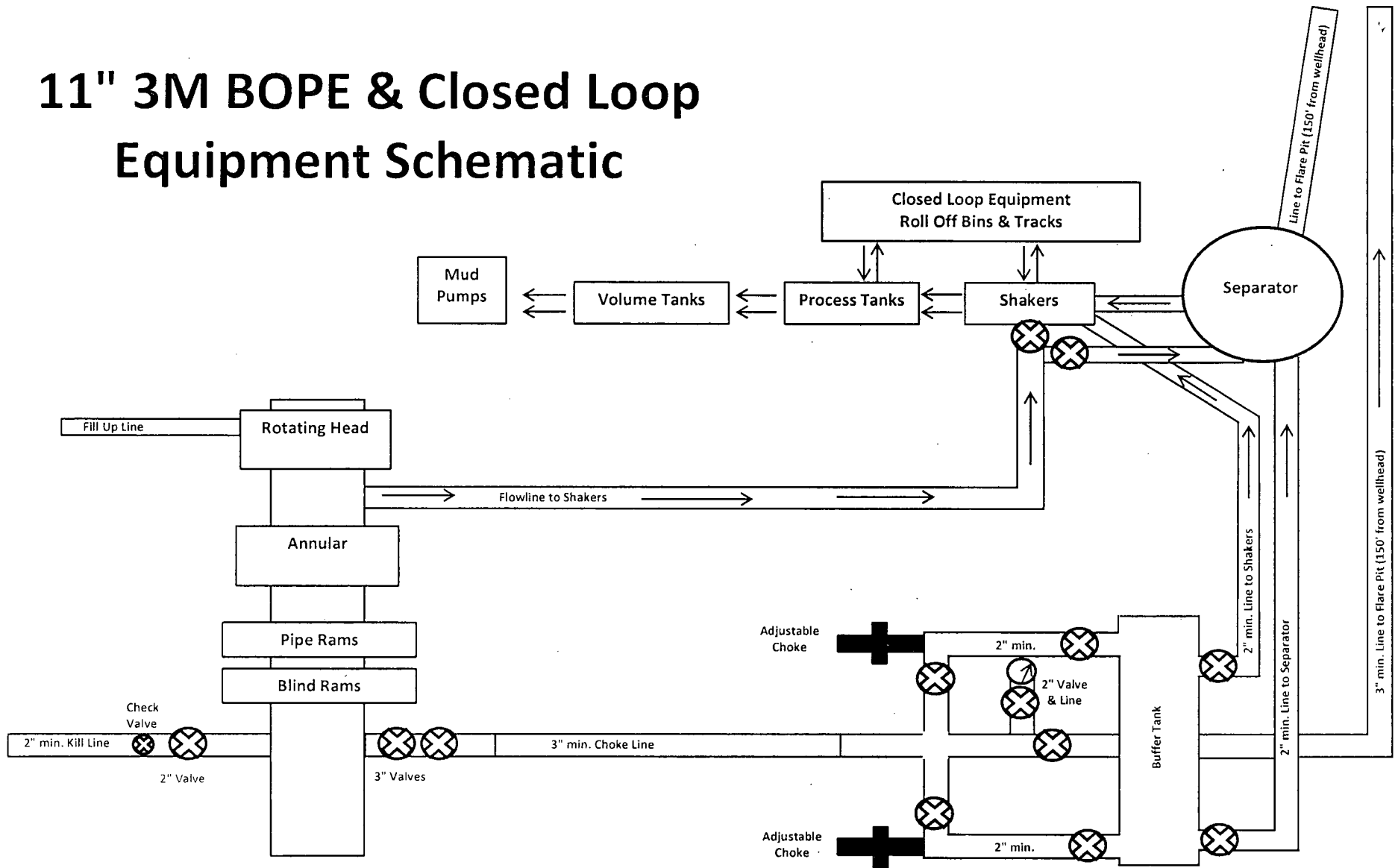


Exhibit 2
Marathon Road 15 B3OB Fed #1H

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

H2S Diagram
Closed Loop Pad Dimensions 280' x 320'

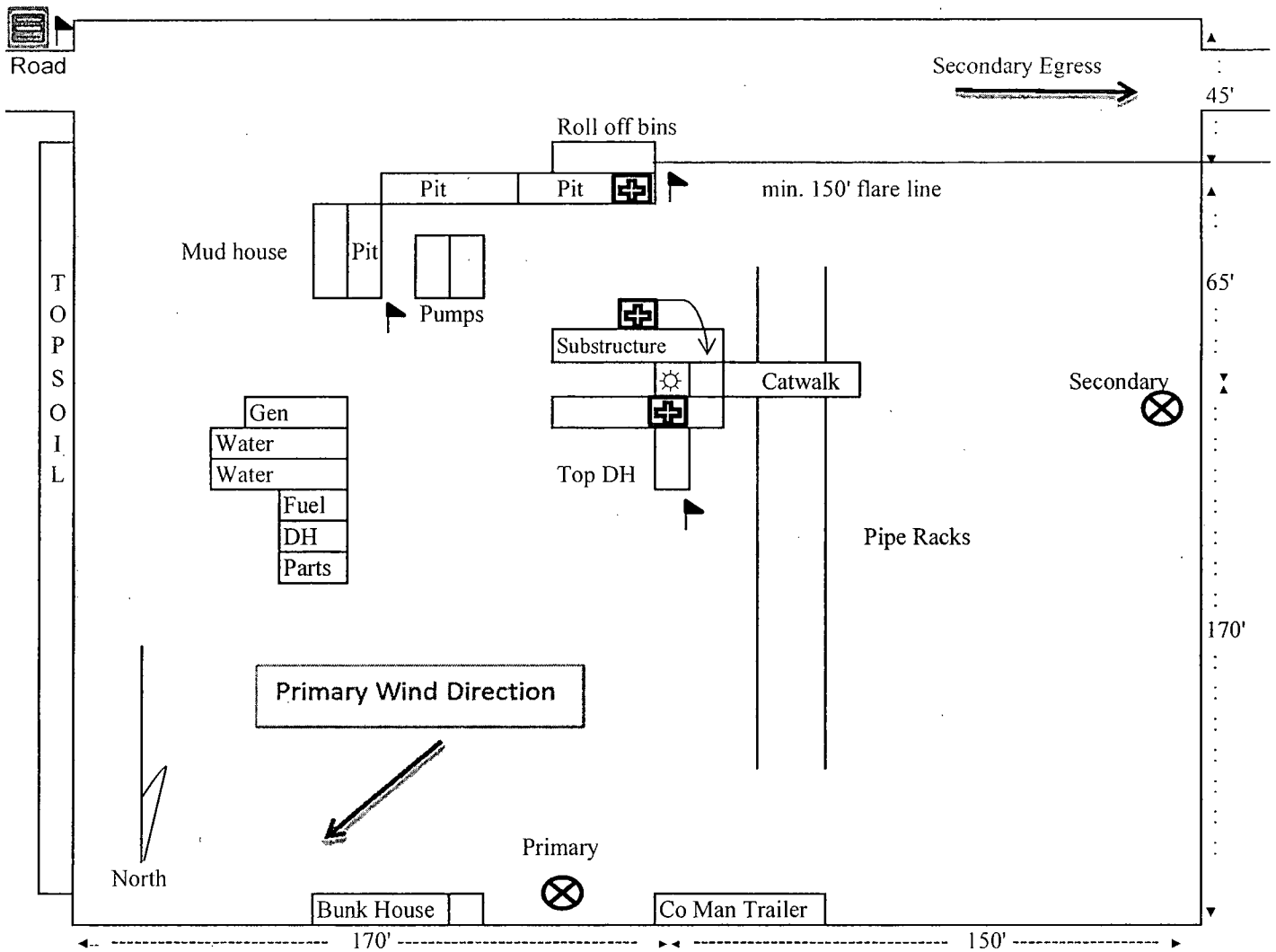


Exhibit 6

Mewbourne Oil Company
Marathon Road 15 B3OB Fed #1H
150' FSL & 2610' FEL
Sec. 15 T20S R34E
Lea County, NM

	= Warning Signs		= Wind Markers
	= H2S Monitors		= Safety Stations