

DEC 10 2013

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		UNORTHODOX LOCATION	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. 40286 Marathon Road 15 NC Federal #1H	
2. Name of Operator Mewbourne Oil Company 14744		9. API Well No. 30-025-42201	
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) 575-393-5905	10. Field and Pool, or Exploratory Lea Bone Spring 37570	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 180' FSL & 1800' FWL, Sec. 15 T20S R34E At proposed prod. zone 330' FNL & 1980' FWL, Sec. 15 T20S R34E		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 15 T20S R34E	
14. Distance in miles and direction from nearest town or post office* 25 miles SW of Hobbs, NM		12. County or Parish Lea	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 180'	16. No. of acres in lease NM-99048 - 280 acres	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 45' - Mudslide Slim Federal #1	19. Proposed Depth 15,425' - MD 10,916' - TVD	20. BLM/BIA Bond No. on file NM-1693 nationwide, NMB-000919	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3646' - GL	22. Approximate date work will start* 09/25/2013	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 07/25/2013
Title		
Approved by (Signature) /s/Aden L. Seidlitz	Name (Printed/Typed)	Date NOV 27 2013
Title STATE DIRECTOR	Office NM STATE 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.

NSL-6898 Capitan Controlled Water Basin (2)

K# 10/21/14

SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

PM OCT 23 2014

Drilling Program
Mewbourne Oil Company
Marathon Road 15 NC Federal #1H
180' FSL & 1800' FWL (SHL)
Sec 15-T20S-R34E
Eddy County, New Mexico

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

Rustler	1610'
Top Salt	1800'
Base Salt	3170'
Yates	3250'
Seven Rivers	NP
Queen	NP
Capitan	3790'
Grayburg	NP
San Andres	NP
*Delaware	5390'
*Bone Spring	8330'
*1 st Bone Spring Sand	9500'
*2 nd Bone Spring Sand	9960'
*3 rd Bone Spring Sand	10650'

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

Water	Fresh water is anticipated at 160' and will be protected by setting surface casing at 1625' and cementing to surface. <i>1675'</i>
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary. <i>see COA</i>

3. Pressure control equipment:

See COA 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. 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" & 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 10479' & kick off to horizontal @ 10957' TVD. The well will be drilled to 15425' MD (10916' 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' <i>1675'</i>	ST&C
17 1/2"	13 3/8" (new)	54.5#	J55	1000'-1035'	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'-4400'	LT&C
12 1/4"	9 5/8" (new)	40#	N80	4400'-5350'	LT&C
8 3/4"	7" (new)	26#	P110	0'-10479' MD	LT&C
8 3/4"	7" (new)	26#	P110	10479'-11234' MD	BT&C
6 1/8"	4 1/2" (new)	13.5#	P110	11024'-15425' 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. 200 sacks Class "C" cement w/ 1% CaCl₂. Yield at 1.34 cuft/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. 200 sacks Class "C" cement w/1% CaCl₂. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 430 sacks Class H light cement (35:65:4) with fluid loss, LCM, & salt additives. Yield at 2.12 cuft/sk. 400 sacks Class H cement containing fluid loss additives. Yield at 1.18 cuft/sk. Cmt calculated to tie back 50' above the top of the Capitan Reef @ 3740' 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:

See COA

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-1635'	FW spud mud	8.6-9.0	32-34	NA
1635'-5350'	Brine water	10.0-10.2	28-30	NA
5350'-10479'	FW	8.3-8.6	28-30	NA
10479'- 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, CN & Gyro 100' above KOP (10379') to surface. GR from 10379' 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 10957'=4752 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.

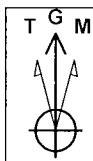


COMPANY: Mewbourne Oil Company
WELL: Marathon Road 15 NC Federal #1H
COUNTY: LEA COUNTY, NM
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 45



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.92°

OFFICE: 936.582.7296



Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.92°

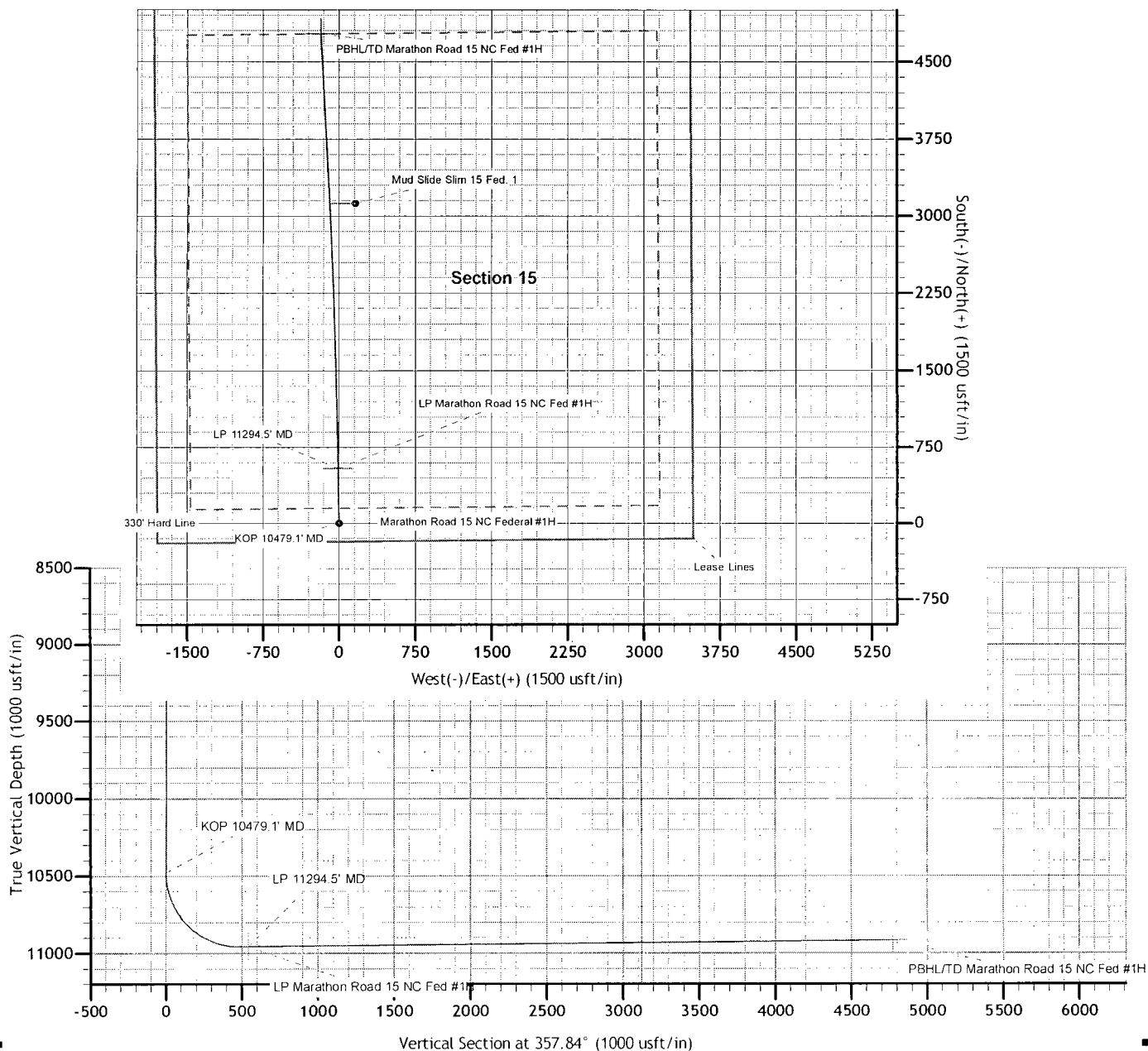
Magnetic Field
Strength: 48613.5nT
Dip Angle: 60.45°
Date: 7/19/2013
Model: IGRF2010

GEODETIC ZONE: New Mexico East 3001
GL 3646 + 20 @ 3666.0usft (Patterson)
GROUND ELEVATION: 3646.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	570596.50	741221.50	32° 33' 58.456 N	103° 33' 1.247 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10479.1	0.00	0.00	10479.1	0.0	0.0	0.00	0.00	0.0	
3	11233.6	90.54	359.08	10956.6	481.9	-7.8	12.00	359.08	481.9	
4	11294.5	90.54	359.08	10956.0	542.8	-8.7	0.00	0.00	542.7	
5	14327.6	90.54	356.91	10927.3	3573.7	-115.0	0.07	-89.91	3575.5	LP Marathon Road 15 NC Fed #1H
6	15524.8	90.54	356.91	10916.0	4769.1	-179.6	0.00	0.00	4772.5	PBHL/TD Marathon Road 15 NC Fed #1H



Mewbourne Oil Company

LEA COUNTY, NM

Section 15

Marathon Road 15 NC Federal #1H

OH

Plan#1

Anticollision Risk Report

26 September, 2013

Stryker Directional Anticollision Risk Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Project:	LEA COUNTY, NM	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Reference Site:	Section 15	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Reference	Plan#1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations Interval 100.0usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 10,000.0usf
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Risk Settings
Vertical Depth for Analysis: usft (Below TVD Reference Datum)
Level of Acceptable Risk (1 in):
Minimum Separation: 0 usft

Survey Tool Program		Date	9/26/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	15,524.0	Plan#1 (OH)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Section 15						
Mud Slide Slim 15 Fed. 1 - OH - OH	13,874.2	10,930.5	43.2	-240.3	0.152	Level 1 , CC, ES, SF

Offset Design Section 15 - Mud Slide Slim 15 Fed. 1 ~ OH ~ OH											Offset Site Error: 0.0 usft		
Survey Program: 150-INC											Offset Well Error: 0.0 usft		
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risk of Separation Factor	Probability of Collision	Warning
0.0	0.0	0.0	0.0	0.0	0.0	2.97	3,127.2				0		
100.0	100.0	97.8	97.8	0.1	2.6	2.96	3,127.2	3,124.5	2.7	1,171.500	0		
200.0	200.0	198.8	198.8	0.3	6.9	2.93	3,127.1	3,119.9	7.2	435.960	0		
300.0	300.0	298.8	298.8	0.5	12.8	2.90	3,127.0	3,113.7	13.3	234.299	0		
400.0	400.0	398.5	398.5	0.8	18.2	2.87	3,126.9	3,108.0	18.9	165.349	0		
500.0	500.0	498.2	498.1	1.0	23.3	2.84	3,126.8	3,102.6	24.2	129.074	0		
600.0	600.0	597.8	597.7	1.2	27.0	2.82	3,126.8	3,098.6	28.2	110.875	0		
700.0	700.0	697.4	697.4	1.4	30.5	2.80	3,126.7	3,094.9	31.9	98.125	0		
800.0	800.0	797.1	797.0	1.7	33.9	2.79	3,126.7	3,091.2	35.5	88.004	0		
900.0	900.0	896.8	896.7	1.9	37.4	2.78	3,126.7	3,087.4	39.2	79.680	0		
1,000.0	1,000.0	997.2	997.1	2.1	41.3	2.77	3,126.6	3,083.3	43.4	72.057	0		
1,100.0	1,100.0	1,097.6	1,097.5	2.3	45.3	2.75	3,126.6	3,079.1	47.5	65.764	0		
1,200.0	1,200.0	1,198.0	1,197.9	2.6	49.2	2.73	3,126.5	3,074.9	51.7	60.482	0		
1,300.0	1,300.0	1,298.4	1,298.3	2.8	53.1	2.70	3,126.5	3,070.6	55.8	55.985	0		
1,400.0	1,400.0	1,398.5	1,398.4	3.0	57.3	2.67	3,126.4	3,066.2	60.2	51.929	0		
1,500.0	1,500.0	1,498.0	1,497.9	3.2	61.8	2.65	3,126.3	3,061.4	64.9	48.138	0		
1,600.0	1,600.0	1,597.5	1,597.4	3.5	66.3	2.63	3,126.3	3,056.6	69.7	44.863	0		
1,700.0	1,700.0	1,697.7	1,697.6	3.7	70.9	2.61	3,126.2	3,051.8	74.5	41.981	0		
1,800.0	1,800.0	1,798.2	1,798.1	3.9	75.5	2.58	3,126.2	3,046.9	79.3	39.441	0		
1,900.0	1,900.0	1,898.6	1,898.4	4.1	80.3	2.55	3,126.1	3,041.8	84.3	37.093	0		
2,000.0	2,000.0	1,998.6	1,998.4	4.4	86.1	2.52	3,126.0	3,035.7	90.3	34.608	0		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Offset Design Section 15 - Mud Slide Slim 15 Fed. 1 - OH - OH													Offset Site Error:	0.0 usft
Survey Program: 150-INC													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
2,100.0	2,100.0	2,098.6	2,098.4	4.6	91.9	2.49	3,126.0	3,029.6	96.4	32.435	0			
2,200.0	2,200.0	2,198.5	2,198.3	4.8	97.8	2.46	3,125.9	3,023.4	102.4	30.518	0			
2,300.0	2,300.0	2,298.5	2,298.3	5.0	103.6	2.43	3,125.8	3,017.3	108.5	28.809	0			
2,400.0	2,400.0	2,398.5	2,398.3	5.3	109.5	2.39	3,125.7	3,011.2	114.6	27.281	0			
2,500.0	2,500.0	2,498.5	2,498.2	5.5	115.3	2.36	3,125.7	3,005.0	120.6	25.907	0			
2,600.0	2,600.0	2,598.5	2,598.2	5.7	121.2	2.33	3,125.6	2,998.9	126.7	24.665	0			
2,700.0	2,700.0	2,698.5	2,698.2	5.9	127.0	2.30	3,125.5	2,992.7	132.8	23.537	0			
2,800.0	2,800.0	2,798.4	2,798.2	6.2	132.9	2.27	3,125.4	2,986.6	138.8	22.510	0			
2,900.0	2,900.0	2,898.4	2,898.1	6.4	138.7	2.23	3,125.4	2,980.5	144.9	21.570	0			
3,000.0	3,000.0	2,998.4	2,998.1	6.6	144.6	2.20	3,125.3	2,974.3	151.0	20.692	0			
3,100.0	3,100.0	3,099.2	3,098.8	6.8	150.0	2.16	3,125.2	2,968.6	159.7	19.575	0			
3,200.0	3,200.0	3,199.8	3,199.5	7.1	161.4	2.11	3,125.1	2,962.9	168.3	18.571	0			
3,300.0	3,300.0	3,300.4	3,300.0	7.3	170.4	2.05	3,125.0	2,947.5	177.5	17.605	0			
3,400.0	3,400.0	3,400.6	3,400.1	7.5	182.0	1.99	3,124.9	2,935.6	189.3	16.509	0			
3,500.0	3,500.0	3,500.5	3,499.9	7.7	193.5	1.92	3,124.7	2,923.7	201.0	15.542	0			
3,600.0	3,600.0	3,600.0	3,599.4	8.0	205.0	1.85	3,124.6	2,911.8	212.8	14.685	0			
3,700.0	3,700.0	3,699.9	3,699.2	8.2	214.1	1.79	3,124.5	2,902.4	222.1	14.068	0			
3,800.0	3,800.0	3,799.7	3,799.0	8.4	223.2	1.73	3,124.4	2,893.0	231.4	13.501	0			
3,900.0	3,900.0	3,899.5	3,898.7	8.6	232.3	1.67	3,124.3	2,883.6	240.7	12.979	0			
4,000.0	4,000.0	3,999.4	3,998.5	8.9	241.4	1.62	3,124.2	2,874.2	250.0	12.495	0			
4,100.0	4,100.0	4,099.2	4,098.3	9.1	250.5	1.57	3,124.2	2,864.8	259.4	12.046	0			
4,200.0	4,200.0	4,199.0	4,198.1	9.3	259.6	1.52	3,124.1	2,855.4	268.7	11.628	0			
4,300.0	4,300.0	4,298.9	4,297.9	9.5	268.7	1.47	3,124.0	2,846.1	278.0	11.238	0			
4,400.0	4,400.0	4,398.7	4,397.7	9.8	277.7	1.43	3,124.0	2,836.7	287.3	10.874	0			
4,500.0	4,500.0	4,498.7	4,497.7	10.0	285.9	1.39	3,123.9	2,828.3	295.7	10.566	0			
4,600.0	4,600.0	4,598.7	4,597.7	10.2	293.7	1.35	3,123.9	2,820.2	303.7	10.287	0			
4,700.0	4,700.0	4,698.8	4,697.7	10.4	301.4	1.30	3,123.8	2,812.1	311.7	10.023	0			
4,800.0	4,800.0	4,798.8	4,797.7	10.7	309.2	1.26	3,123.8	2,804.1	319.7	9.772	0			
4,900.0	4,900.0	4,898.8	4,897.7	10.9	317.0	1.21	3,123.7	2,796.0	327.7	9.533	0			
5,000.0	5,000.0	4,898.8	4,897.7	11.1	325.4	1.16	3,123.6	2,787.3	336.3	9.288	0			
5,100.0	5,100.0	5,098.8	5,097.6	11.3	333.9	1.12	3,123.6	2,778.6	345.0	9.054	0			
5,200.0	5,200.0	5,198.7	5,197.5	11.6	342.3	1.07	3,123.5	2,769.9	353.7	8.831	0			
5,300.0	5,300.0	5,298.7	5,297.5	11.8	350.8	1.02	3,123.5	2,761.1	362.4	8.620	0			
5,400.0	5,400.0	5,398.7	5,397.4	12.0	359.2	0.97	3,123.4	2,752.4	371.0	8.418	0			
5,500.0	5,500.0	5,498.5	5,497.2	12.2	365.8	0.93	3,123.4	2,745.5	377.9	8.265	0			
5,600.0	5,600.0	5,598.2	5,596.8	12.5	371.0	0.89	3,123.4	2,740.1	383.3	8.149	0			
5,700.0	5,700.0	5,697.9	5,696.5	12.7	376.1	0.86	3,123.4	2,734.7	388.7	8.036	0			
5,800.0	5,800.0	5,797.6	5,796.2	12.9	381.3	0.85	3,123.3	2,729.3	394.0	7.927	0			
5,900.0	5,900.0	5,897.7	5,896.3	13.1	385.4	0.84	3,123.3	2,725.0	398.4	7.840	0			
6,000.0	6,000.0	5,997.9	5,996.5	13.4	389.3	0.82	3,123.3	2,720.9	402.5	7.760	0			
6,100.0	6,100.0	6,098.0	6,096.7	13.6	393.2	0.80	3,123.3	2,716.7	406.6	7.682	0			
6,200.0	6,200.0	6,198.1	6,196.7	13.8	397.5	0.77	3,123.3	2,712.2	411.1	7.597	0			
6,300.0	6,300.0	6,298.0	6,296.6	14.0	402.6	0.74	3,123.3	2,706.7	416.5	7.498	0			
6,400.0	6,400.0	6,398.0	6,396.5	14.3	407.8	0.71	3,123.2	2,701.3	421.9	7.402	0			
6,500.0	6,500.0	6,497.9	6,496.5	14.5	412.9	0.68	3,123.2	2,696.0	427.2	7.311	0			
6,600.0	6,600.0	6,597.9	6,596.5	14.7	417.4	0.66	3,123.2	2,691.2	432.0	7.230	0			
6,700.0	6,700.0	6,697.9	6,696.5	14.9	421.9	0.64	3,123.2	2,686.5	436.7	7.151	0			
6,800.0	6,800.0	6,797.9	6,796.4	15.1	426.5	0.61	3,123.2	2,681.7	441.5	7.074	0			
6,900.0	6,900.0	6,897.9	6,896.4	15.4	431.0	0.59	3,123.2	2,676.9	446.2	6.999	0			
7,000.0	7,000.0	6,997.9	6,996.4	15.6	435.6	0.56	3,123.2	2,672.1	451.0	6.925	0			
7,100.0	7,100.0	7,097.9	7,096.4	15.8	440.1	0.54	3,123.1	2,667.3	455.8	6.852	0			
7,200.0	7,200.0	7,197.9	7,196.4	16.0	445.7	0.51	3,123.1	2,661.5	461.6	6.765	0			
7,300.0	7,300.0	7,298.0	7,296.5	16.3	451.5	0.48	3,123.1	2,655.4	467.7	6.678	0			
7,400.0	7,400.0	7,398.0	7,396.5	16.5	457.4	0.45	3,123.1	2,649.3	473.8	6.592	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Stryker Directional Anticollision Risk Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Project:	LEA COUNTY, NM	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Reference Site:	Section 15	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM-5000.1 Single User.Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Offset Design Section 15 - Mud Slide Slim 15 Fed. 1 - OH - OH													Offset Site Error:	0.0 usft
Survey Program: 150-INC													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning	
7,500.0	7,500.0	7,498.0	7,496.5	16.7	464.5	0.41	3,123.1	2,642.0	481.1	6.492	0			
7,600.0	7,600.0	7,598.0	7,596.5	16.9	472.2	0.36	3,123.1	2,634.0	489.1	6.386	0			
7,700.0	7,700.0	7,698.0	7,696.4	17.2	480.0	0.32	3,123.0	2,625.9	497.1	6.283	0			
7,800.0	7,800.0	7,798.0	7,796.4	17.4	488.4	0.27	3,123.0	2,617.3	505.7	6.175	0			
7,900.0	7,900.0	7,898.0	7,896.4	17.6	497.5	0.22	3,123.0	2,608.0	515.0	6.064	0			
8,000.0	8,000.0	7,998.0	7,996.3	17.8	507.0	0.16	3,123.0	2,598.3	524.7	5.952	0			
8,100.0	8,100.0	8,097.9	8,096.2	18.1	516.7	0.11	3,123.0	2,588.3	534.7	5.841	0			
8,200.0	8,200.0	8,197.9	8,196.1	18.3	526.4	0.05	3,123.0	2,578.4	544.7	5.734	0			
8,292.4	8,292.4	8,290.2	8,288.4	18.5	535.2	0.00	3,123.0	2,569.3	553.7	5.641	0			
8,300.0	8,300.0	8,297.8	8,296.0	18.5	535.9	0.00	3,123.0	2,568.6	554.4	5.633	0			
8,400.0	8,400.0	8,397.8	8,395.9	18.7	545.0	-0.06	3,123.0	2,559.3	563.7	5.540	0			
8,500.0	8,500.0	8,497.8	8,495.8	19.0	554.1	-0.11	3,123.0	2,550.0	573.0	5.450	0			
8,600.0	8,600.0	8,597.7	8,595.8	19.2	563.2	-0.16	3,123.0	2,540.7	582.3	5.363	0			
8,700.0	8,700.0	8,697.7	8,695.7	19.4	571.6	-0.21	3,123.0	2,532.0	591.0	5.284	0			
8,800.0	8,800.0	8,797.7	8,795.6	19.6	580.1	-0.26	3,123.0	2,523.3	599.7	5.208	0			
8,900.0	8,900.0	8,897.6	8,895.6	19.9	588.5	-0.30	3,123.0	2,514.7	608.4	5.134	0			
9,000.0	9,000.0	8,997.6	8,995.5	20.1	596.0	-0.35	3,123.1	2,507.0	616.1	5.069	0			
9,100.0	9,100.0	9,097.7	9,095.5	20.3	603.2	-0.39	3,123.1	2,499.6	623.5	5.009	0			
9,200.0	9,200.0	9,197.7	9,195.5	20.5	610.3	-0.43	3,123.1	2,492.3	630.8	4.951	0			
9,300.0	9,300.0	9,297.7	9,295.6	20.8	616.8	-0.46	3,123.1	2,485.5	637.6	4.898	0			
9,400.0	9,400.0	9,397.8	9,395.6	21.0	621.4	-0.49	3,123.1	2,480.8	642.3	4.862	0			
9,500.0	9,500.0	9,497.9	9,495.7	21.2	625.9	-0.52	3,123.1	2,476.0	647.1	4.826	0			
9,600.0	9,600.0	9,597.9	9,595.7	21.4	630.4	-0.53	3,123.1	2,471.3	651.9	4.791	0			
9,700.0	9,700.0	9,697.9	9,695.7	21.7	635.0	-0.55	3,123.1	2,466.5	656.6	4.756	0			
9,800.0	9,800.0	9,797.8	9,795.5	21.9	639.5	-0.58	3,123.2	2,461.8	661.4	4.722	0			
9,900.0	9,900.0	9,897.7	9,895.4	22.1	644.0	-0.61	3,123.2	2,457.1	666.1	4.689	0			
10,000.0	10,000.0	9,997.6	9,995.4	22.3	649.7	-0.64	3,123.2	2,451.2	672.0	4.648	0			
10,100.0	10,100.0	10,097.6	10,095.4	22.6	655.5	-0.67	3,123.2	2,445.1	678.1	4.606	0			
10,200.0	10,200.0	10,197.6	10,195.3	22.8	661.4	-0.70	3,123.2	2,439.1	684.1	4.565	0			
10,300.0	10,300.0	10,297.6	10,295.3	23.0	666.7	-0.73	3,123.3	2,433.5	689.8	4.528	0			
10,400.0	10,400.0	10,397.7	10,395.4	23.2	671.9	-0.76	3,123.3	2,428.1	695.2	4.493	0			
10,479.1	10,479.1	10,476.8	10,474.5	23.4	676.0	-0.78	3,123.3	2,423.8	699.4	4.465	0			
10,500.0	10,500.0	10,497.7	10,495.4	23.5	677.1	0.14	3,122.8	2,423.0	699.9	4.462	0			
10,525.0	10,524.9	10,522.7	10,520.3	23.5	678.4	0.13	3,121.1	2,422.4	698.7	4.467	0			
10,550.0	10,549.7	10,547.5	10,545.2	23.6	679.7	0.12	3,118.1	2,422.5	695.6	4.483	0			
10,575.0	10,574.4	10,572.1	10,569.8	23.6	680.8	0.12	3,113.7	2,423.3	690.5	4.510	0			
10,600.0	10,598.7	10,596.4	10,594.1	23.7	681.9	0.12	3,108.1	2,424.7	683.4	4.548	0			
10,625.0	10,622.7	10,620.5	10,618.2	23.7	683.0	0.11	3,101.2	2,426.7	674.5	4.598	0			
10,650.0	10,646.4	10,644.1	10,641.8	23.8	684.1	0.11	3,093.1	2,429.4	663.7	4.660	0			
10,675.0	10,669.6	10,667.3	10,665.0	23.9	685.1	0.10	3,083.7	2,432.7	651.0	4.737	0			
10,700.0	10,692.2	10,689.9	10,687.6	23.9	686.1	0.10	3,073.1	2,436.6	636.6	4.827	0			
10,725.0	10,714.3	10,712.0	10,709.7	24.0	687.1	0.10	3,061.4	2,441.1	620.4	4.935	0			
10,750.0	10,735.7	10,733.4	10,731.1	24.0	688.1	0.09	3,048.5	2,446.2	602.4	5.061	0			
10,775.0	10,756.4	10,754.2	10,751.8	24.1	689.1	0.09	3,034.6	2,451.8	582.7	5.208	0			
10,800.0	10,776.4	10,774.1	10,771.8	24.1	690.0	0.09	3,019.5	2,458.1	561.4	5.378	0			
10,825.0	10,795.5	10,793.3	10,790.9	24.2	690.8	0.09	3,003.5	2,464.9	538.5	5.577	0			
10,850.0	10,813.8	10,811.6	10,809.2	24.2	691.7	0.09	2,986.4	2,472.3	514.2	5.808	0			
10,875.0	10,831.2	10,828.9	10,826.6	24.3	692.4	0.09	2,968.4	2,480.1	488.3	6.079	0			
10,900.0	10,847.6	10,845.3	10,843.0	24.4	693.2	0.09	2,949.6	2,488.5	461.1	6.397	0			
10,925.0	10,863.0	10,860.7	10,858.4	24.4	693.9	0.09	2,929.9	2,497.3	432.6	6.773	0			
10,950.0	10,877.3	10,875.1	10,872.7	24.5	694.5	0.09	2,909.4	2,506.5	402.9	7.222	0			
10,975.0	10,890.5	10,888.3	10,886.0	24.6	695.1	0.09	2,888.2	2,516.2	372.0	7.763	0			
11,000.0	10,902.7	10,900.4	10,898.1	24.7	695.7	0.09	2,866.3	2,526.2	340.2	8.426	0			
11,025.0	10,913.6	10,911.4	10,909.0	24.8	696.2	0.09	2,843.9	2,536.5	307.4	9.251	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Stryker Directional Anticollision Risk Report

Company: Mewbourne Oil Company
Project: LEA COUNTY, NM
Reference Site: Section 15
Site Error: 0.0
Reference Well: Marathon Road 15 NC Federal #1H
Well Error: 0.0
Reference Wellbore: OH
Reference Design: Plan#1

Local Co-ordinate Reference: Well Marathon Road 15 NC Federal #1H
TVD Reference: GL 3646 + 20 @ 3666.0usft (Patterson)
MD Reference: GL 3646 + 20 @ 3666.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Offset Datum

Offset Design Section 15 - Mud Slide Slim 15 Fed. 1 - OH - OH												Offset Site Error: 0.0 usft		
Survey Program: 150-INC				Offset Well Error: 0.0 usft										
Reference		Offset		Semi Major Axis		Distance						Risked Separation Factor	Probability of Collision	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,050.0	10,923.4	10,921.2	10,918.8	24.9	696.6	0.10	2,820.9	2,547.1	273.8	10.302	0			
11,075.0	10,931.9	10,929.7	10,927.4	25.0	697.0	0.11	2,797.4	2,557.9	239.5	11.680	0			
11,100.0	10,939.2	10,937.0	10,934.7	25.1	697.3	0.12	2,773.5	2,568.9	204.6	13.555	0			
11,125.0	10,945.3	10,943.1	10,940.7	25.2	697.6	0.15	2,749.2	2,580.0	169.3	16.242	0			
11,150.0	10,950.1	10,947.8	10,945.5	25.3	697.8	0.18	2,724.7	2,591.1	133.6	20.390	0			
11,175.0	10,953.5	10,951.3	10,949.0	25.5	698.0	0.26	2,699.9	2,602.0	98.0	27.557	0			
11,200.0	10,955.7	10,953.5	10,951.2	25.6	698.1	0.48	2,675.0	2,612.0	63.0	42.430	0			
11,225.0	10,956.6	10,954.4	10,952.0	25.7	698.1	3.32	2,650.0	2,612.8	37.3	71.135	0			
11,233.6	10,956.6	10,954.4	10,952.0	25.8	698.1	176.80	2,641.4	2,599.5	41.9	63.070	0			
11,294.5	10,956.0	10,953.8	10,951.5	26.2	698.1	176.71	2,580.5	2,538.3	42.2	61.146	0			
11,300.0	10,955.9	10,953.8	10,951.4	26.2	698.1	176.27	2,575.1	2,531.7	43.4	59.352	0			
11,400.0	10,955.0	10,952.8	10,950.5	26.9	698.1	168.34	2,475.1	2,405.1	70.0	35.381	0			
11,500.0	10,954.1	10,951.9	10,949.6	27.7	698.0	160.52	2,375.1	2,276.5	98.6	24.090	0			
11,600.0	10,953.1	10,951.0	10,948.7	28.6	698.0	153.07	2,275.1	2,149.5	125.6	18.112	0			
11,700.0	10,952.2	10,950.1	10,947.8	29.5	697.9	146.18	2,175.1	2,025.4	149.7	14.534	0			
11,800.0	10,951.2	10,949.2	10,946.8	30.6	697.9	139.95	2,075.1	1,904.8	170.3	12.188	0			
11,900.0	10,950.3	10,948.3	10,945.9	31.7	697.8	134.39	1,975.1	1,787.6	187.5	10.534	0			
12,000.0	10,949.3	10,947.4	10,945.0	32.9	697.8	129.47	1,875.1	1,673.3	201.8	9.294	0			
12,100.0	10,948.4	10,946.4	10,944.1	34.2	697.8	125.15	1,775.1	1,561.6	213.5	8.315	0			
12,200.0	10,947.5	10,945.5	10,943.2	35.5	697.7	121.34	1,675.1	1,452.0	223.2	7.506	0			
12,300.0	10,946.5	10,944.6	10,942.3	36.8	697.7	117.97	1,575.1	1,343.9	231.2	6.812	0			
12,400.0	10,945.6	10,943.7	10,941.4	38.2	697.6	114.98	1,475.2	1,237.2	238.0	6.198	0			
12,500.0	10,944.6	10,942.8	10,940.5	39.6	697.6	112.31	1,375.2	1,131.4	243.8	5.641	0			
12,600.0	10,943.7	10,941.9	10,939.6	41.1	697.6	109.91	1,275.2	1,026.5	248.8	5.126	0			
12,700.0	10,942.7	10,941.0	10,938.7	42.6	697.5	107.74	1,175.3	922.1	253.1	4.643	0			
12,800.0	10,941.8	10,940.1	10,937.8	44.1	697.5	105.77	1,075.3	818.3	257.0	4.184	0			
12,900.0	10,940.8	10,939.2	10,936.9	45.6	697.4	103.95	975.4	714.9	260.5	3.745	0			
13,000.0	10,939.9	10,938.3	10,936.0	47.2	697.4	102.27	875.5	611.9	263.6	3.321	0			
13,100.0	10,939.0	10,937.4	10,935.1	48.8	697.4	100.70	775.6	509.1	266.5	2.910	0			
13,200.0	10,938.0	10,936.5	10,934.2	50.4	697.3	99.23	675.7	406.6	269.2	2.510	0			
13,300.0	10,937.1	10,935.6	10,933.3	52.0	697.3	97.84	576.0	304.3	271.7	2.120	0			
13,400.0	10,936.1	10,934.7	10,932.4	53.6	697.2	96.52	476.3	202.3	274.0	1.738	0			
13,500.0	10,935.2	10,933.9	10,931.5	55.3	697.2	95.24	376.8	100.5	276.2	1.364	0		Level 3	
13,600.0	10,934.2	10,933.0	10,930.6	56.9	697.2	94.01	277.7	-0.7	278.3	0.998	0		Level 1	
13,700.0	10,933.3	10,932.1	10,929.7	58.6	697.1	92.80	179.5	-100.8	280.3	0.640	0		Level 1	
13,800.0	10,932.3	10,931.2	10,928.9	60.3	697.1	91.62	85.9	-196.3	282.2	0.304	0		Level 1	
13,874.2	10,931.6	10,930.5	10,928.2	61.5	697.0	90.75	43.2	-240.3	283.5	0.152	0		Level 1, CC, ES, SF	
13,900.0	10,931.4	10,930.3	10,928.0	62.0	697.0	90.45	50.3	-233.7	284.0	0.177	0		Level 1	
14,000.0	10,930.4	10,929.4	10,927.1	63.7	697.0	89.28	133.0	-152.6	285.7	0.466	0		Level 1	
14,100.0	10,929.5	10,928.6	10,926.2	65.4	697.0	88.10	229.9	-57.3	287.3	0.800	0		Level 1	
14,200.0	10,928.5	10,927.7	10,925.3	67.1	696.9	86.90	328.7	40.0	288.7	1.139	0		Level 2	
14,300.0	10,927.6	10,926.8	10,924.5	68.8	696.9	85.68	428.1	138.0	290.1	1.476	0		Level 3	
14,327.6	10,927.3	10,926.6	10,924.2	69.3	696.9	85.33	455.5	165.1	290.4	1.569	0			
14,400.0	10,926.7	10,925.9	10,923.6	70.5	696.8	84.48	527.7	236.5	291.1	1.812	0			
14,500.0	10,925.7	10,925.0	10,922.7	72.1	696.8	83.30	627.4	335.4	292.0	2.149	0			
14,600.0	10,924.8	10,924.2	10,921.8	73.7	696.8	82.12	727.2	434.5	292.7	2.484	0			
14,700.0	10,923.8	10,923.3	10,920.9	75.3	696.7	80.96	827.1	533.7	293.4	2.819	0			
14,800.0	10,922.9	10,922.4	10,920.1	76.9	696.7	79.80	926.9	633.0	293.9	3.154	0			
14,900.0	10,921.9	10,921.5	10,919.2	78.5	696.6	78.65	1,026.8	732.5	294.3	3.489	0			
15,000.0	10,921.0	10,920.7	10,918.3	80.2	696.6	77.51	1,126.8	832.1	294.7	3.824	0			
15,100.0	10,920.0	10,919.8	10,917.4	81.8	696.6	76.38	1,226.7	931.8	294.9	4.160	0			
15,200.0	10,919.1	10,918.9	10,916.6	83.5	696.5	75.26	1,326.6	1,031.6	295.0	4.497	0			
15,300.0	10,918.1	10,918.0	10,915.7	85.2	696.5	74.16	1,426.6	1,131.5	295.1	4.835	0			
15,400.0	10,917.2	10,917.2	10,914.8	86.8	696.4	73.06	1,526.5	1,231.5	295.0	5.175	0			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Stryker Directional Anticollision Risk Report

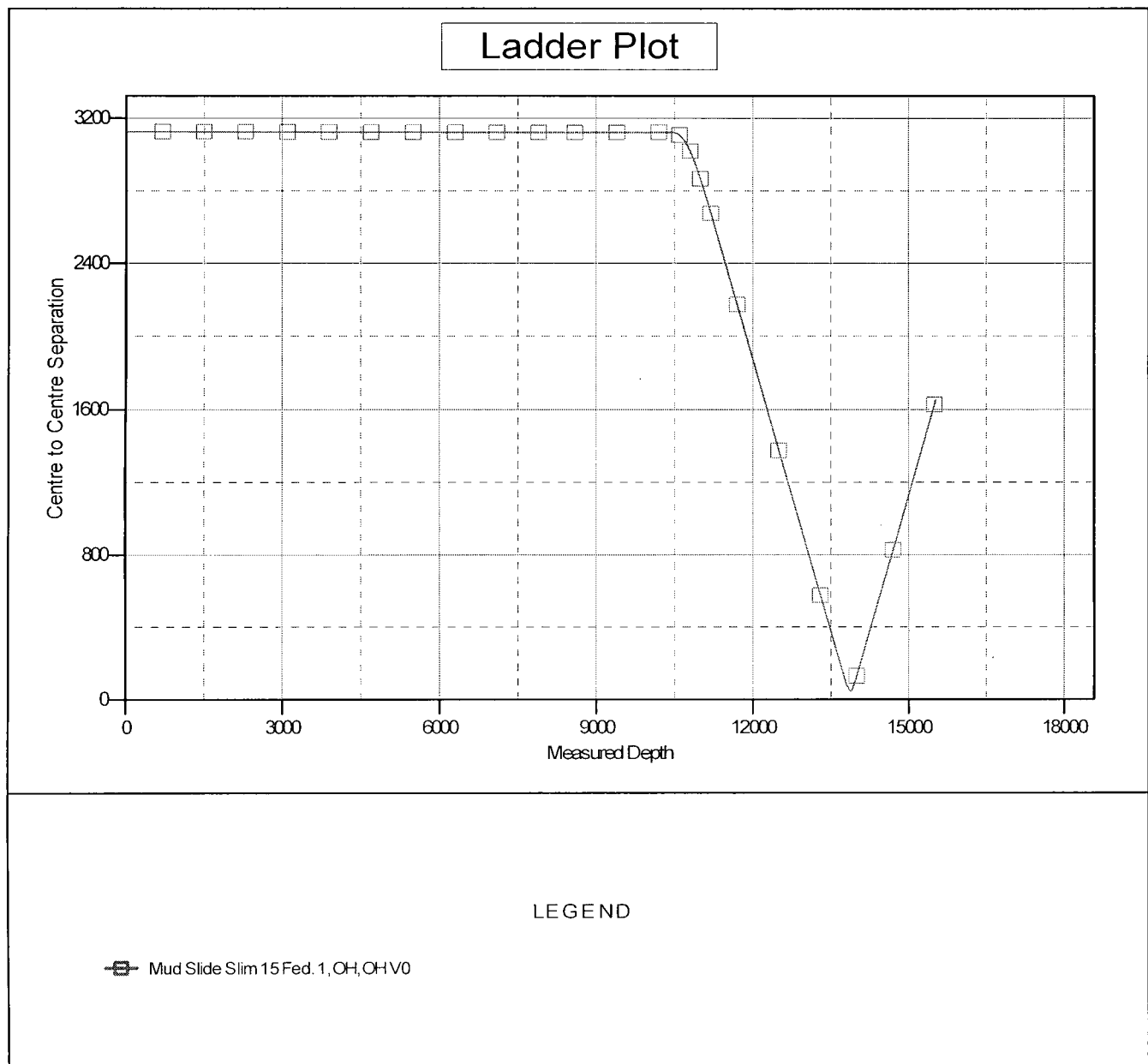
Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Project:	LEA COUNTY, NM	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Reference Site:	Section 15	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Offset Design Section 15 - Mud Slide Slim 15 Fed. 1 - OH - OH												Offset Site Error:	0.0 usft
Survey Program: 150-INC												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation	Risked	Probability	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	Centres	Ellipses	Separation	Factor	Separation	of Collision	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)		Factor		
15,500.0	10,916.2	10,916.3	10,913.9	88.5	696.4	71.98	1,626.5	1,331.7	294.9	5.516	0		
15,524.8	10,916.0	10,916.1	10,913.7	89.0	696.4	71.72	1,651.3	1,356.5	294.8	5.601	0		

Stryker Directional Anticollision Risk Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Project:	LEA COUNTY, NM	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Reference Site:	Section 15	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000:1 Single User Db
Reference Design:	Plan#1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 3646 + 20 @ 3666.0usft (Patterson) Coordinates are relative to: Marathon Road 15 NC Federal #1H
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W °
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.42°



Stryker Directional Anticollision Risk Report

Company: Mewbourne Oil Company
Project: LEA COUNTY, NM
Reference Site: Section 15
Site Error: 0.0
Reference Well: Marathon Road 15 NC Federal #1H
Well Error: 0.0
Reference Wellbore: OH
Reference Design: Plan#1

Local Co-ordinate Reference: Well Marathon Road 15 NC Federal #1H
TVD Reference: GL 3646 + 20 @ 3666.0usft (Patterson)
MD Reference: GL 3646 + 20 @ 3666.0usft (Patterson)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to GL 3646 + 20 @ 3666.0usft (Patterson) Coordinates are relative to: Marathon Road 15 NC Federal #1H

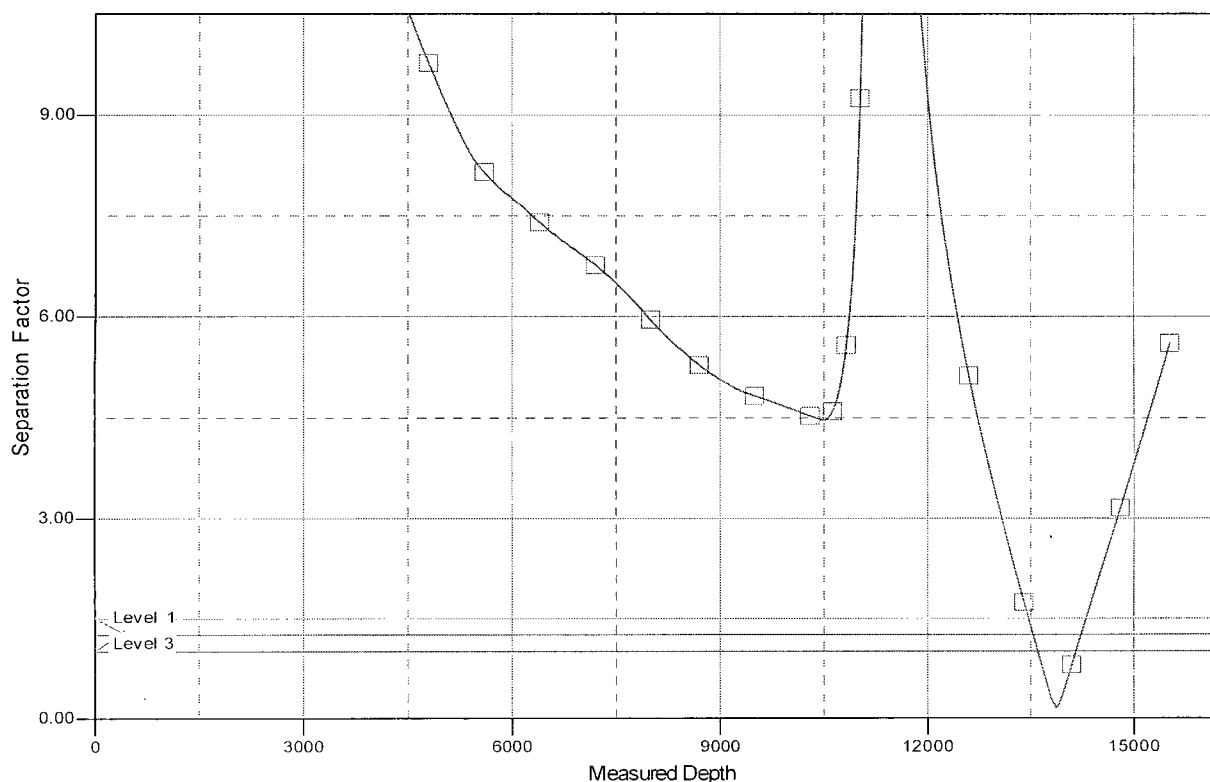
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Central Meridian is 104° 20' 0.000 W °

Grid Convergence at Surface is: 0.42°

Separation Factor Plot



LEGEND

Mud Slide Slim 15 Fed. 1, OH, OHV0

Mewbourne Oil Company

EDDY COUNTY, NM (NAD27)

SECTION 15

Marathon Road 15 NC Federal #1H

OH

Plan: Plan#1

Standard Planning Report

19 July, 2013

Stryker Directional Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan#1		

Project:	EDDY COUNTY, NM (NAD27), NM-EAST		
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			
Site Position:		Northing:	637,920.39 usft	Latitude:	32° 45' 10.081 N
From:	Map	Easting:	648,947.81 usft	Longitude:	103° 50' 55.863 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.26 °

Well:	Marathon Road 15 NC Federal #1H					
Well Position	+N/-S	-67,323.9 usft	Northing:	570,596.50 usft	Latitude:	32° 33' 58.456 N
	+E/-W	92,273.7 usft	Easting:	741,221.50 usft	Longitude:	103° 33' 1.247 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,646.0 usft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/19/2013	7.34	60.45	48,613

Design:	Plan#1
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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	357.84

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	
10,479.1	0.00	0.00	10,479.1	0.0	0.0	0.00	0.00	0.00	0.00	
11,233.6	90.54	359.08	10,956.6	481.9	-7.8	12.00	12.00	-0.12	359.08	
11,294.5	90.54	359.08	10,956.0	542.8	-8.7	0.00	0.00	0.00	0.00	LP Marathon Road
14,327.6	90.54	356.91	10,927.3	3,573.7	-115.0	0.07	0.00	-0.07	-89.91	
15,524.8	90.54	356.91	10,916.0	4,769.1	-179.6	0.00	0.00	0.00	0.00	PBHL/TD Marathon

Stryker Directional

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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
5,300.0	0.00	0.00	5,300.0	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 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
5,400.0	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
10,479.1	0.00	0.00	10,479.1	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	2.50	359.08	10,500.0	0.5	0.0	0.5	12.00	12.00	0.00
10,525.0	5.50	359.08	10,524.9	2.2	0.0	2.2	12.00	12.00	0.00

Stryker Directional Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)	
10,550.0	8.50	359.08	10,549.7	5.2	-0.1	5.2	12.00	12.00	0.00	
10,575.0	11.50	359.08	10,574.4	9.6	-0.2	9.6	12.00	12.00	0.00	
10,600.0	14.50	359.08	10,598.7	15.2	-0.2	15.2	12.00	12.00	0.00	
10,625.0	17.50	359.08	10,622.7	22.1	-0.4	22.1	12.00	12.00	0.00	
10,650.0	20.50	359.08	10,646.4	30.2	-0.5	30.2	12.00	12.00	0.00	
10,675.0	23.50	359.08	10,669.6	39.6	-0.6	39.6	12.00	12.00	0.00	
10,700.0	26.50	359.08	10,692.2	50.2	-0.8	50.2	12.00	12.00	0.00	
10,725.0	29.50	359.08	10,714.3	61.9	-1.0	61.9	12.00	12.00	0.00	
10,750.0	32.50	359.08	10,735.7	74.8	-1.2	74.8	12.00	12.00	0.00	
10,775.0	35.50	359.08	10,756.4	88.8	-1.4	88.8	12.00	12.00	0.00	
10,800.0	38.50	359.08	10,776.4	103.8	-1.7	103.8	12.00	12.00	0.00	
10,825.0	41.50	359.08	10,795.5	119.9	-1.9	119.9	12.00	12.00	0.00	
10,850.0	44.50	359.08	10,813.8	136.9	-2.2	136.9	12.00	12.00	0.00	
10,875.0	47.50	359.08	10,831.2	154.9	-2.5	154.9	12.00	12.00	0.00	
10,900.0	50.50	359.08	10,847.6	173.8	-2.8	173.7	12.00	12.00	0.00	
10,925.0	53.50	359.08	10,863.0	193.5	-3.1	193.4	12.00	12.00	0.00	
10,950.0	56.50	359.08	10,877.3	213.9	-3.4	213.9	12.00	12.00	0.00	
10,975.0	59.50	359.08	10,890.5	235.1	-3.8	235.1	12.00	12.00	0.00	
11,000.0	62.50	359.08	10,902.7	257.0	-4.1	257.0	12.00	12.00	0.00	
11,025.0	65.50	359.08	10,913.8	279.5	-4.5	279.4	12.00	12.00	0.00	
11,050.0	68.50	359.08	10,923.4	302.5	-4.9	302.4	12.00	12.00	0.00	
11,075.0	71.50	359.08	10,931.9	326.0	-5.3	325.9	12.00	12.00	0.00	
11,100.0	74.50	359.08	10,939.2	349.9	-5.6	349.8	12.00	12.00	0.00	
11,125.0	77.50	359.08	10,945.3	374.1	-6.0	374.1	12.00	12.00	0.00	
11,150.0	80.50	359.08	10,950.1	398.6	-6.4	398.6	12.00	12.00	0.00	
11,175.0	83.50	359.08	10,953.5	423.4	-6.8	423.4	12.00	12.00	0.00	
11,200.0	86.50	359.08	10,955.7	448.3	-7.2	448.2	12.00	12.00	0.00	
11,225.0	89.50	359.08	10,956.6	473.3	-7.6	473.2	12.00	12.00	0.00	
11,233.6	90.54	359.08	10,956.6	481.9	-7.8	481.9	12.00	12.00	0.00	
11,294.5	90.54	359.08	10,956.0	542.8	-8.7	542.7	0.00	0.00	0.00	
11,300.0	90.54	359.07	10,955.9	548.3	-8.8	548.2	0.07	0.00	-0.07	
11,400.0	90.54	359.00	10,955.0	648.2	-10.5	648.2	0.07	0.00	-0.07	
11,500.0	90.54	358.93	10,954.1	748.2	-12.3	748.2	0.07	0.00	-0.07	
11,600.0	90.54	358.86	10,953.1	848.2	-14.2	848.1	0.07	0.00	-0.07	
11,700.0	90.54	358.79	10,952.2	948.2	-16.3	948.1	0.07	0.00	-0.07	
11,800.0	90.54	358.72	10,951.2	1,048.1	-18.5	1,048.1	0.07	0.00	-0.07	
11,900.0	90.54	358.64	10,950.3	1,148.1	-20.8	1,148.1	0.07	0.00	-0.07	
12,000.0	90.54	358.57	10,949.3	1,248.1	-23.2	1,248.1	0.07	0.00	-0.07	
12,100.0	90.54	358.50	10,948.4	1,348.0	-25.8	1,348.1	0.07	0.00	-0.07	
12,200.0	90.54	358.43	10,947.5	1,448.0	-28.4	1,448.0	0.07	0.00	-0.07	
12,300.0	90.54	358.36	10,946.5	1,548.0	-31.2	1,548.0	0.07	0.00	-0.07	
12,400.0	90.54	358.29	10,945.6	1,647.9	-34.2	1,648.0	0.07	0.00	-0.07	
12,500.0	90.54	358.21	10,944.6	1,747.9	-37.2	1,748.0	0.07	0.00	-0.07	
12,600.0	90.54	358.14	10,943.7	1,847.8	-40.4	1,848.0	0.07	0.00	-0.07	
12,700.0	90.54	358.07	10,942.7	1,947.7	-43.7	1,948.0	0.07	0.00	-0.07	
12,800.0	90.54	358.00	10,941.8	2,047.7	-47.1	2,048.0	0.07	0.00	-0.07	
12,900.0	90.54	357.93	10,940.8	2,147.6	-50.7	2,148.0	0.07	0.00	-0.07	
13,000.0	90.54	357.86	10,939.9	2,247.5	-54.4	2,248.0	0.07	0.00	-0.07	
13,100.0	90.54	357.79	10,939.0	2,347.5	-58.2	2,348.0	0.07	0.00	-0.07	
13,200.0	90.54	357.71	10,938.0	2,447.4	-62.1	2,448.0	0.07	0.00	-0.07	
13,300.0	90.54	357.64	10,937.1	2,547.3	-66.1	2,548.0	0.07	0.00	-0.07	
13,400.0	90.54	357.57	10,936.1	2,647.2	-70.3	2,648.0	0.07	0.00	-0.07	
13,500.0	90.54	357.50	10,935.2	2,747.1	-74.6	2,748.0	0.07	0.00	-0.07	
13,600.0	90.54	357.43	10,934.2	2,847.0	-79.0	2,848.0	0.07	0.00	-0.07	

Stryker Directional Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)	
13,700.0	90.54	357.36	10,933.3	2,946.9	-83.6	2,948.0	0.07	0.00	-0.07	
13,800.0	90.54	357.29	10,932.3	3,046.8	-88.3	3,047.9	0.07	0.00	-0.07	
13,900.0	90.54	357.21	10,931.4	3,146.7	-93.1	3,147.9	0.07	0.00	-0.07	
14,000.0	90.54	357.14	10,930.4	3,246.5	-98.0	3,247.9	0.07	0.00	-0.07	
14,100.0	90.54	357.07	10,929.5	3,346.4	-103.0	3,347.9	0.07	0.00	-0.07	
14,200.0	90.54	357.00	10,928.5	3,446.3	-108.2	3,447.9	0.07	0.00	-0.07	
14,300.0	90.54	356.93	10,927.6	3,546.1	-113.5	3,547.9	0.07	0.00	-0.07	
14,327.6	90.54	356.91	10,927.3	3,573.7	-115.0	3,575.5	0.07	0.00	-0.07	
14,400.0	90.54	356.91	10,926.7	3,646.0	-118.9	3,647.9	0.00	0.00	0.00	
14,500.0	90.54	356.91	10,925.7	3,745.8	-124.3	3,747.8	0.00	0.00	0.00	
14,600.0	90.54	356.91	10,924.8	3,845.7	-129.7	3,847.8	0.00	0.00	0.00	
14,700.0	90.54	356.91	10,923.8	3,945.5	-135.1	3,947.8	0.00	0.00	0.00	
14,800.0	90.54	356.91	10,922.9	4,045.4	-140.5	4,047.8	0.00	0.00	0.00	
14,900.0	90.54	356.91	10,921.9	4,145.2	-145.9	4,147.8	0.00	0.00	0.00	
15,000.0	90.54	356.91	10,921.0	4,245.1	-151.3	4,247.8	0.00	0.00	0.00	
15,100.0	90.54	356.91	10,920.0	4,344.9	-156.7	4,347.7	0.00	0.00	0.00	
15,200.0	90.54	356.91	10,919.1	4,444.8	-162.1	4,447.7	0.00	0.00	0.00	
15,300.0	90.54	356.91	10,918.1	4,544.6	-167.4	4,547.7	0.00	0.00	0.00	
15,400.0	90.54	356.91	10,917.2	4,644.5	-172.8	4,647.7	0.00	0.00	0.00	
15,500.0	90.54	356.91	10,916.2	4,744.3	-178.2	4,747.7	0.00	0.00	0.00	
15,524.8	90.54	356.91	10,916.0	4,769.1	-179.6	4,772.5	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL/TD Marathon R	0.00	0.00	10,916.0	4,769.1	-179.6	575,365.63	741,041.92	32° 34' 45.660 N	103° 33' 2.936 W	
- plan hits target center										
- Point										
LP Marathon Road 15	0.00	0.00	10,956.0	542.8	-8.7	571,139.27	741,212.75	32° 34' 3.828 N	103° 33' 1.303 W	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
10,479.1	10,479.1	0.0	0.0	KOP 10479.1' MD	
11,294.5	10,956.0	542.8	-8.7	LP 11294.5' MD	
15,524.8	10,916.0	4,769.1	-179.6	PBHL 15524.8' MD	

Mewbourne Oil Company

EDDY COUNTY, NM (NAD27)

SECTION 15

Marathon Road 15 NC Federal #1H

OH

Plan: Plan#1

Standard Planning Report - Geographic

19 July, 2013

Stryker Directional

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan#1		

Project	EDDY COUNTY, NM (NAD27), NM-EAST		
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		
Site Position:	From: Map	Northing:	637,920.39 usft
		Easting:	648,947.81 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 45' 10.081 N
		Longitude:	103° 50' 55.863 W
		Grid Convergence:	0.26 °

Well	Marathon Road 15 NC Federal #1H		
Well Position	+N/-S	0.0 usft	Northing: 570,596.50 usft
	+E/-W	0.0 usft	Easting: 741,221.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,646.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	7/19/2013	7.34
			Dip Angle (°)
			60.45
			Field Strength (nT)
			48,613

Design	Plan#1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			357.84

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	
10,479.1	0.00	0.00	10,479.1	0.0	0.0	0.00	0.00	0.00	0.00	
11,233.6	90.54	359.08	10,956.6	481.9	-7.8	12.00	12.00	-0.12	359.08	
11,294.5	90.54	359.08	10,956.0	542.8	-8.7	0.00	0.00	0.00	0.00	LP Marathon Road
14,327.6	90.54	356.91	10,927.3	3,573.7	-115.0	0.07	0.00	-0.07	-89.91	
15,524.8	90.54	356.91	10,916.0	4,769.1	-179.6	0.00	0.00	0.00	0.00	PBHL/TD Marathon

Stryker Directional

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
100.0	0.00	0.00	100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
200.0	0.00	0.00	200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
300.0	0.00	0.00	300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
400.0	0.00	0.00	400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
500.0	0.00	0.00	500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
600.0	0.00	0.00	600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
700.0	0.00	0.00	700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
800.0	0.00	0.00	800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
900.0	0.00	0.00	900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,400.0	0.00	0.00	5,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W

Stryker Directional

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature.
Wellbore:	OH		
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
5,500.0	0.00	0.00	5,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,600.0	0.00	0.00	5,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,700.0	0.00	0.00	5,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,800.0	0.00	0.00	5,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
5,900.0	0.00	0.00	5,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,000.0	0.00	0.00	6,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,100.0	0.00	0.00	6,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,200.0	0.00	0.00	6,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,300.0	0.00	0.00	6,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,400.0	0.00	0.00	6,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,500.0	0.00	0.00	6,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,600.0	0.00	0.00	6,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,700.0	0.00	0.00	6,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,800.0	0.00	0.00	6,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
6,900.0	0.00	0.00	6,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,000.0	0.00	0.00	7,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,100.0	0.00	0.00	7,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,200.0	0.00	0.00	7,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,300.0	0.00	0.00	7,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,400.0	0.00	0.00	7,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,500.0	0.00	0.00	7,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,600.0	0.00	0.00	7,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,700.0	0.00	0.00	7,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,800.0	0.00	0.00	7,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
7,900.0	0.00	0.00	7,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,000.0	0.00	0.00	8,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,100.0	0.00	0.00	8,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,200.0	0.00	0.00	8,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,300.0	0.00	0.00	8,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,400.0	0.00	0.00	8,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,500.0	0.00	0.00	8,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,600.0	0.00	0.00	8,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,700.0	0.00	0.00	8,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,800.0	0.00	0.00	8,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
8,900.0	0.00	0.00	8,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,000.0	0.00	0.00	9,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,100.0	0.00	0.00	9,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,200.0	0.00	0.00	9,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,300.0	0.00	0.00	9,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,400.0	0.00	0.00	9,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,500.0	0.00	0.00	9,500.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,600.0	0.00	0.00	9,600.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,700.0	0.00	0.00	9,700.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,800.0	0.00	0.00	9,800.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
9,900.0	0.00	0.00	9,900.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
10,000.0	0.00	0.00	10,000.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
10,100.0	0.00	0.00	10,100.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
10,200.0	0.00	0.00	10,200.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
10,300.0	0.00	0.00	10,300.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
10,400.0	0.00	0.00	10,400.0	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
10,479.1	0.00	0.00	10,479.1	0.0	0.0	570,596.50	741,221.50	32° 33' 58.456 N	103° 33' 1.247 W
10,500.0	2.50	359.08	10,500.0	0.5	0.0	570,596.96	741,221.49	32° 33' 58.461 N	103° 33' 1.247 W
10,525.0	5.50	359.08	10,524.9	2.2	0.0	570,598.70	741,221.46	32° 33' 58.478 N	103° 33' 1.248 W
10,550.0	8.50	359.08	10,549.7	5.2	-0.1	570,601.75	741,221.41	32° 33' 58.508 N	103° 33' 1.248 W
10,575.0	11.50	359.08	10,574.4	9.6	-0.2	570,606.09	741,221.34	32° 33' 58.551 N	103° 33' 1.248 W

Stryker Directional

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15 NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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	
10,600.0	14.50	359.08	10,598.7	15.2	-0.2	570,611.72	741,221.25	32° 33' 58.607 N	103° 33' 1.249 W	
10,625.0	17.50	359.08	10,622.7	22.1	-0.4	570,618.61	741,221.14	32° 33' 58.675 N	103° 33' 1.250 W	
10,650.0	20.50	359.08	10,646.4	30.2	-0.5	570,626.75	741,221.01	32° 33' 58.756 N	103° 33' 1.250 W	
10,675.0	23.50	359.08	10,669.6	39.6	-0.6	570,636.11	741,220.86	32° 33' 58.848 N	103° 33' 1.251 W	
10,700.0	26.50	359.08	10,692.2	50.2	-0.8	570,646.68	741,220.69	32° 33' 58.953 N	103° 33' 1.253 W	
10,725.0	29.50	359.08	10,714.3	61.9	-1.0	570,658.41	741,220.50	32° 33' 59.069 N	103° 33' 1.254 W	
10,750.0	32.50	359.08	10,735.7	74.8	-1.2	570,671.29	741,220.29	32° 33' 59.196 N	103° 33' 1.255 W	
10,775.0	35.50	359.08	10,756.4	88.8	-1.4	570,685.27	741,220.07	32° 33' 59.335 N	103° 33' 1.256 W	
10,800.0	38.50	359.08	10,776.4	103.8	-1.7	570,700.31	741,219.82	32° 33' 59.484 N	103° 33' 1.258 W	
10,825.0	41.50	359.08	10,795.5	119.9	-1.9	570,716.38	741,219.57	32° 33' 59.643 N	103° 33' 1.260 W	
10,850.0	44.50	359.08	10,813.8	136.9	-2.2	570,733.42	741,219.29	32° 33' 59.811 N	103° 33' 1.261 W	
10,875.0	47.50	359.08	10,831.2	154.9	-2.5	570,751.40	741,219.00	32° 33' 59.989 N	103° 33' 1.263 W	
10,900.0	50.50	359.08	10,847.6	173.8	-2.8	570,770.27	741,218.70	32° 34' 0.176 N	103° 33' 1.265 W	
10,925.0	53.50	359.08	10,863.0	193.5	-3.1	570,789.96	741,218.38	32° 34' 0.371 N	103° 33' 1.267 W	
10,950.0	56.50	359.08	10,877.3	213.9	-3.4	570,810.44	741,218.05	32° 34' 0.574 N	103° 33' 1.269 W	
10,975.0	59.50	359.08	10,890.5	235.1	-3.8	570,831.64	741,217.71	32° 34' 0.783 N	103° 33' 1.271 W	
11,000.0	62.50	359.08	10,902.7	257.0	-4.1	570,853.50	741,217.36	32° 34' 1.000 N	103° 33' 1.274 W	
11,025.0	65.50	359.08	10,913.6	279.5	-4.5	570,875.96	741,216.99	32° 34' 1.222 N	103° 33' 1.276 W	
11,050.0	68.50	359.08	10,923.4	302.5	-4.9	570,898.97	741,216.62	32° 34' 1.450 N	103° 33' 1.278 W	
11,075.0	71.50	359.08	10,931.9	326.0	-5.3	570,922.46	741,216.25	32° 34' 1.682 N	103° 33' 1.281 W	
11,100.0	74.50	359.08	10,939.2	349.9	-5.6	570,946.36	741,215.86	32° 34' 1.919 N	103° 33' 1.283 W	
11,125.0	77.50	359.08	10,945.3	374.1	-6.0	570,970.61	741,215.47	32° 34' 2.159 N	103° 33' 1.286 W	
11,150.0	80.50	359.08	10,950.1	398.6	-6.4	570,995.15	741,215.07	32° 34' 2.401 N	103° 33' 1.288 W	
11,175.0	83.50	359.08	10,953.5	423.4	-6.8	571,019.90	741,214.68	32° 34' 2.646 N	103° 33' 1.291 W	
11,200.0	86.50	359.08	10,955.7	448.3	-7.2	571,044.80	741,214.27	32° 34' 2.893 N	103° 33' 1.293 W	
11,225.0	89.50	359.08	10,956.6	473.3	-7.6	571,069.78	741,213.87	32° 34' 3.140 N	103° 33' 1.296 W	
11,233.6	90.54	359.08	10,956.6	481.9	-7.8	571,078.40	741,213.73	32° 34' 3.225 N	103° 33' 1.297 W	
11,294.5	90.54	359.08	10,956.0	542.8	-8.7	571,139.27	741,212.75	32° 34' 3.828 N	103° 33' 1.303 W	
11,300.0	90.54	359.07	10,955.9	548.3	-8.8	571,144.76	741,212.66	32° 34' 3.882 N	103° 33' 1.303 W	
11,400.0	90.54	359.00	10,955.0	648.2	-10.5	571,244.74	741,210.98	32° 34' 4.871 N	103° 33' 1.315 W	
11,500.0	90.54	358.93	10,954.1	748.2	-12.3	571,344.72	741,209.18	32° 34' 5.861 N	103° 33' 1.327 W	
11,600.0	90.54	358.86	10,953.1	848.2	-14.2	571,444.70	741,207.25	32° 34' 6.850 N	103° 33' 1.341 W	
11,700.0	90.54	358.79	10,952.2	948.2	-16.3	571,544.68	741,205.19	32° 34' 7.840 N	103° 33' 1.356 W	
11,800.0	90.54	358.72	10,951.2	1,048.1	-18.5	571,644.65	741,203.02	32° 34' 8.829 N	103° 33' 1.373 W	
11,900.0	90.54	358.64	10,950.3	1,148.1	-20.8	571,744.62	741,200.71	32° 34' 9.818 N	103° 33' 1.392 W	
12,000.0	90.54	358.57	10,949.3	1,248.1	-23.2	571,844.58	741,198.28	32° 34' 10.808 N	103° 33' 1.411 W	
12,100.0	90.54	358.50	10,948.4	1,348.0	-25.8	571,944.55	741,195.73	32° 34' 11.797 N	103° 33' 1.433 W	
12,200.0	90.54	358.43	10,947.5	1,448.0	-28.4	572,044.50	741,193.05	32° 34' 12.786 N	103° 33' 1.455 W	
12,300.0	90.54	358.36	10,946.5	1,548.0	-31.2	572,144.46	741,190.25	32° 34' 13.776 N	103° 33' 1.479 W	
12,400.0	90.54	358.29	10,945.6	1,647.9	-34.2	572,244.41	741,187.32	32° 34' 14.765 N	103° 33' 1.505 W	
12,500.0	90.54	358.21	10,944.6	1,747.9	-37.2	572,344.36	741,184.27	32° 34' 15.754 N	103° 33' 1.532 W	
12,600.0	90.54	358.14	10,943.7	1,847.8	-40.4	572,444.31	741,181.09	32° 34' 16.743 N	103° 33' 1.561 W	
12,700.0	90.54	358.07	10,942.7	1,947.7	-43.7	572,544.25	741,177.79	32° 34' 17.732 N	103° 33' 1.591 W	
12,800.0	90.54	358.00	10,941.8	2,047.7	-47.1	572,644.19	741,174.36	32° 34' 18.721 N	103° 33' 1.622 W	
12,900.0	90.54	357.93	10,940.8	2,147.6	-50.7	572,744.12	741,170.81	32° 34' 19.711 N	103° 33' 1.655 W	
13,000.0	90.54	357.86	10,939.9	2,247.5	-54.4	572,844.05	741,167.13	32° 34' 20.700 N	103° 33' 1.689 W	
13,100.0	90.54	357.79	10,939.0	2,347.5	-58.2	572,943.97	741,163.33	32° 34' 21.689 N	103° 33' 1.725 W	
13,200.0	90.54	357.71	10,938.0	2,447.4	-62.1	573,043.89	741,159.40	32° 34' 22.678 N	103° 33' 1.763 W	
13,300.0	90.54	357.64	10,937.1	2,547.3	-66.1	573,143.80	741,155.35	32° 34' 23.666 N	103° 33' 1.801 W	
13,400.0	90.54	357.57	10,936.1	2,647.2	-70.3	573,243.71	741,151.18	32° 34' 24.655 N	103° 33' 1.842 W	
13,500.0	90.54	357.50	10,935.2	2,747.1	-74.6	573,343.61	741,146.88	32° 34' 25.644 N	103° 33' 1.883 W	
13,600.0	90.54	357.43	10,934.2	2,847.0	-79.0	573,443.51	741,142.45	32° 34' 26.633 N	103° 33' 1.926 W	
13,700.0	90.54	357.36	10,933.3	2,946.9	-83.6	573,543.40	741,137.90	32° 34' 27.622 N	103° 33' 1.971 W	
13,800.0	90.54	357.29	10,932.3	3,046.8	-88.3	573,643.29	741,133.23	32° 34' 28.610 N	103° 33' 2.017 W	
13,900.0	90.54	357.21	10,931.4	3,146.7	-93.1	573,743.17	741,128.43	32° 34' 29.599 N	103° 33' 2.064 W	

Stryker Directional

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Marathon Road 15 NC Federal #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Project:	EDDY COUNTY, NM (NAD27)	MD Reference:	GL 3646 + 20 @ 3666.0usft (Patterson)
Site:	SECTION 15	North Reference:	Grid
Well:	Marathon Road 15-NC Federal #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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
14,000.0	90.54	357.14	10,930.4	3,246.5	-98.0	573,843.04	741,123.51	32° 34' 30.588 N	103° 33' 2.113 W
14,100.0	90.54	357.07	10,929.5	3,346.4	-103.0	573,942.91	741,118.46	32° 34' 31.576 N	103° 33' 2.164 W
14,200.0	90.54	357.00	10,928.5	3,446.3	-108.2	574,042.77	741,113.29	32° 34' 32.565 N	103° 33' 2.216 W
14,300.0	90.54	356.93	10,927.6	3,546.1	-113.5	574,142.63	741,107.99	32° 34' 33.553 N	103° 33' 2.269 W
14,327.6	90.54	356.91	10,927.3	3,573.7	-115.0	574,170.16	741,106.51	32° 34' 33.826 N	103° 33' 2.284 W
14,400.0	90.54	356.91	10,926.7	3,646.0	-118.9	574,242.48	741,102.60	32° 34' 34.542 N	103° 33' 2.323 W
14,500.0	90.54	356.91	10,925.7	3,745.8	-124.3	574,342.33	741,097.20	32° 34' 35.530 N	103° 33' 2.378 W
14,600.0	90.54	356.91	10,924.8	3,845.7	-129.7	574,442.18	741,091.81	32° 34' 36.518 N	103° 33' 2.432 W
14,700.0	90.54	356.91	10,923.8	3,945.5	-135.1	574,542.03	741,086.42	32° 34' 37.507 N	103° 33' 2.487 W
14,800.0	90.54	356.91	10,922.9	4,045.4	-140.5	574,641.88	741,081.02	32° 34' 38.495 N	103° 33' 2.541 W
14,900.0	90.54	356.91	10,921.9	4,145.2	-145.9	574,741.73	741,075.63	32° 34' 39.484 N	103° 33' 2.596 W
15,000.0	90.54	356.91	10,921.0	4,245.1	-151.3	574,841.58	741,070.23	32° 34' 40.472 N	103° 33' 2.650 W
15,100.0	90.54	356.91	10,920.0	4,344.9	-156.7	574,941.43	741,064.84	32° 34' 41.460 N	103° 33' 2.705 W
15,200.0	90.54	356.91	10,919.1	4,444.8	-162.1	575,041.28	741,059.44	32° 34' 42.449 N	103° 33' 2.759 W
15,300.0	90.54	356.91	10,918.1	4,544.6	-167.4	575,141.13	741,054.05	32° 34' 43.437 N	103° 33' 2.813 W
15,400.0	90.54	356.91	10,917.2	4,644.5	-172.8	575,240.98	741,048.66	32° 34' 44.426 N	103° 33' 2.868 W
15,500.0	90.54	356.91	10,916.2	4,744.3	-178.2	575,340.83	741,043.26	32° 34' 45.414 N	103° 33' 2.922 W
15,524.8	90.54	356.91	10,916.0	4,769.1	-179.6	575,365.63	741,041.92	32° 34' 45.660 N	103° 33' 2.936 W

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)		
PBHL/TD Marathon R	- plan hits target center	0.00	0.00	10,916.0	4,769.1	-179.6	575,365.63	741,041.92	32° 34' 45.660 N	103° 33' 2.936 W
	- Point									
LP Marathon Road 15	- plan hits target center	0.00	0.00	10,956.0	542.8	-8.7	571,139.27	741,212.75	32° 34' 3.828 N	103° 33' 1.303 W
	- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,479.1	10,479.1	0.0	0.0	KOP 10479.1' MD
11,294.5	10,956.0	542.8	-8.7	LP 11294.5' MD
15,524.8	10,916.0	4,769.1	-179.6	PBHL 15524.8' MD

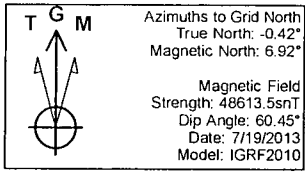


COMPANY: Mewbourne Oil Company
WELL: Marathon Road 15 NC Federal #1H
COUNTY: EDDY COUNTY, NM (NAD27)
DATUM: NAD 1927 (NADCON CONUS)



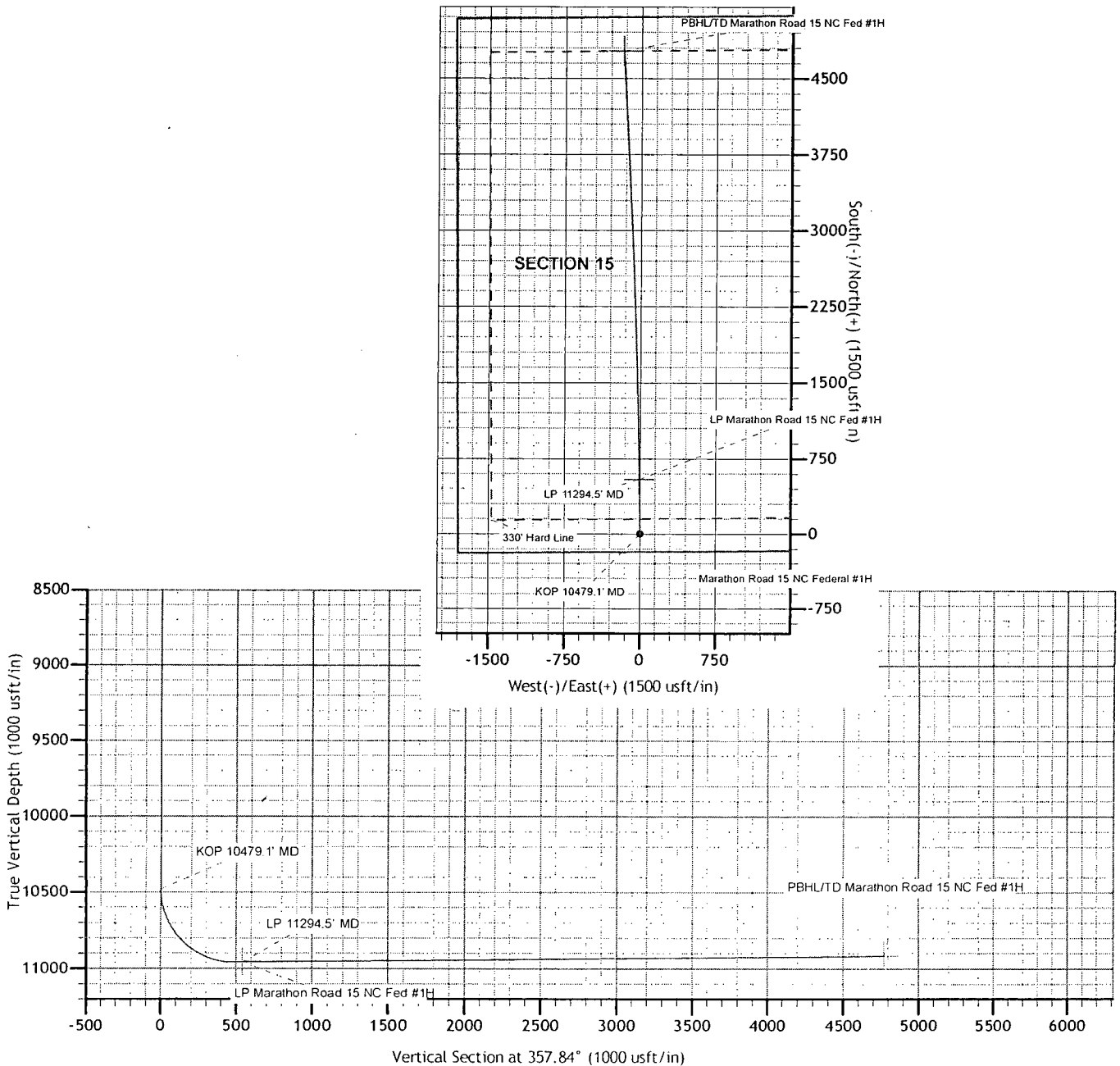
RIG: Patterson 45
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.92°

OFFICE: 936.582.7296



GEODETC ZONE: New Mexico East 3001					
GL 3646 + 20 @ 3666.0usft (Patterson)					
GROUND ELEVATION: 3646.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	570596.50	741221.50	32° 33' 58.456 N	103° 33' 1.247 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	10479.1	0.00	0.00	10479.1	0.0	0.0	0.00	0.00	0.0	
3	11233.6	90.54	359.08	10956.6	481.9	-7.8	12.00	359.08	481.9	
4	11294.5	90.54	359.08	10956.0	542.8	-8.7	0.00	0.00	542.7	LP Marathon Road 15 NC Fed #1H
5	14327.6	90.54	356.91	10927.3	3573.7	-115.0	0.07	-89.91	3575.5	
6	15524.8	90.54	356.91	10916.0	4769.1	-179.6	0.00	0.00	4772.5	PBHL/TD Marathon Road 15 NC Fed #1H



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

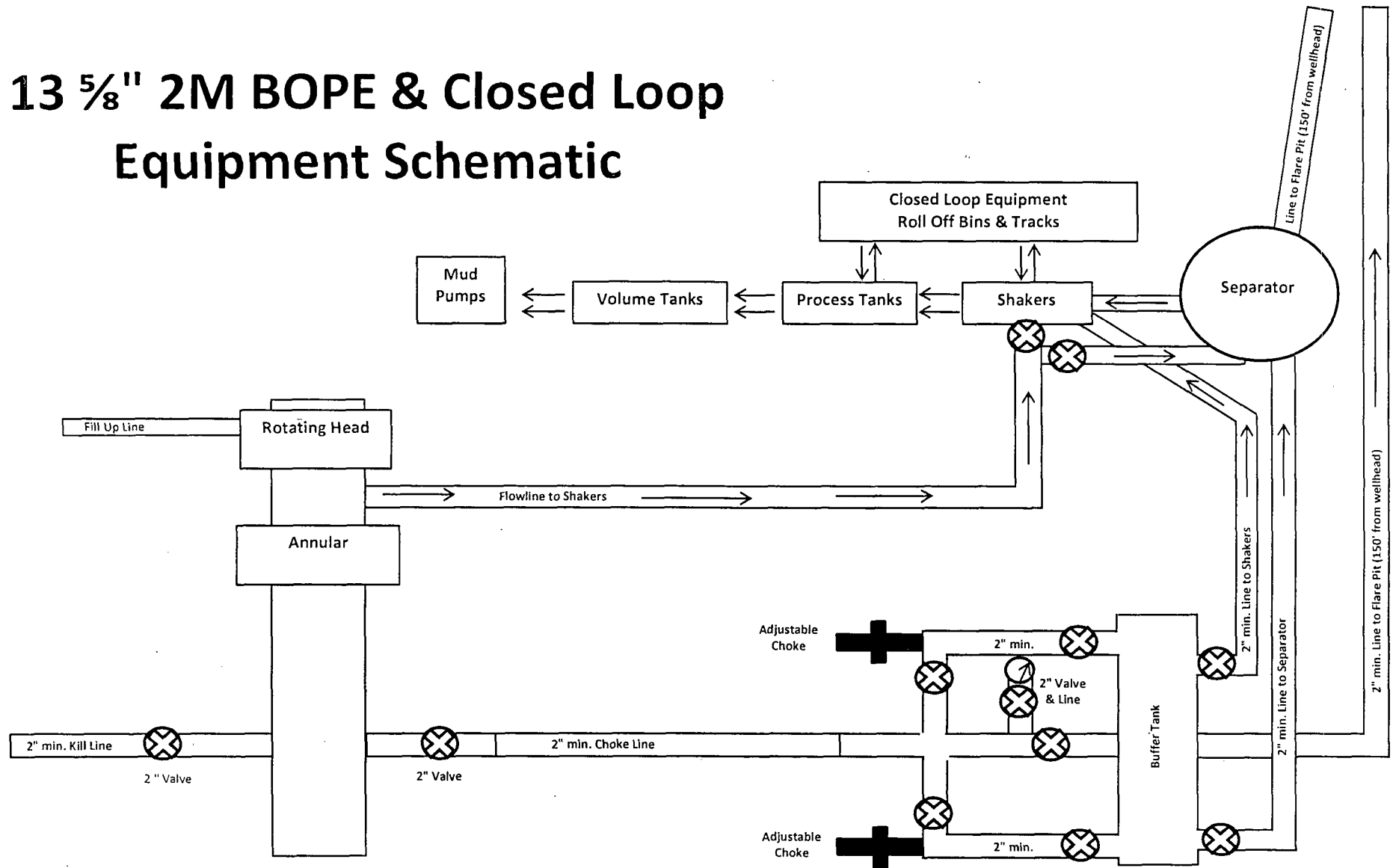
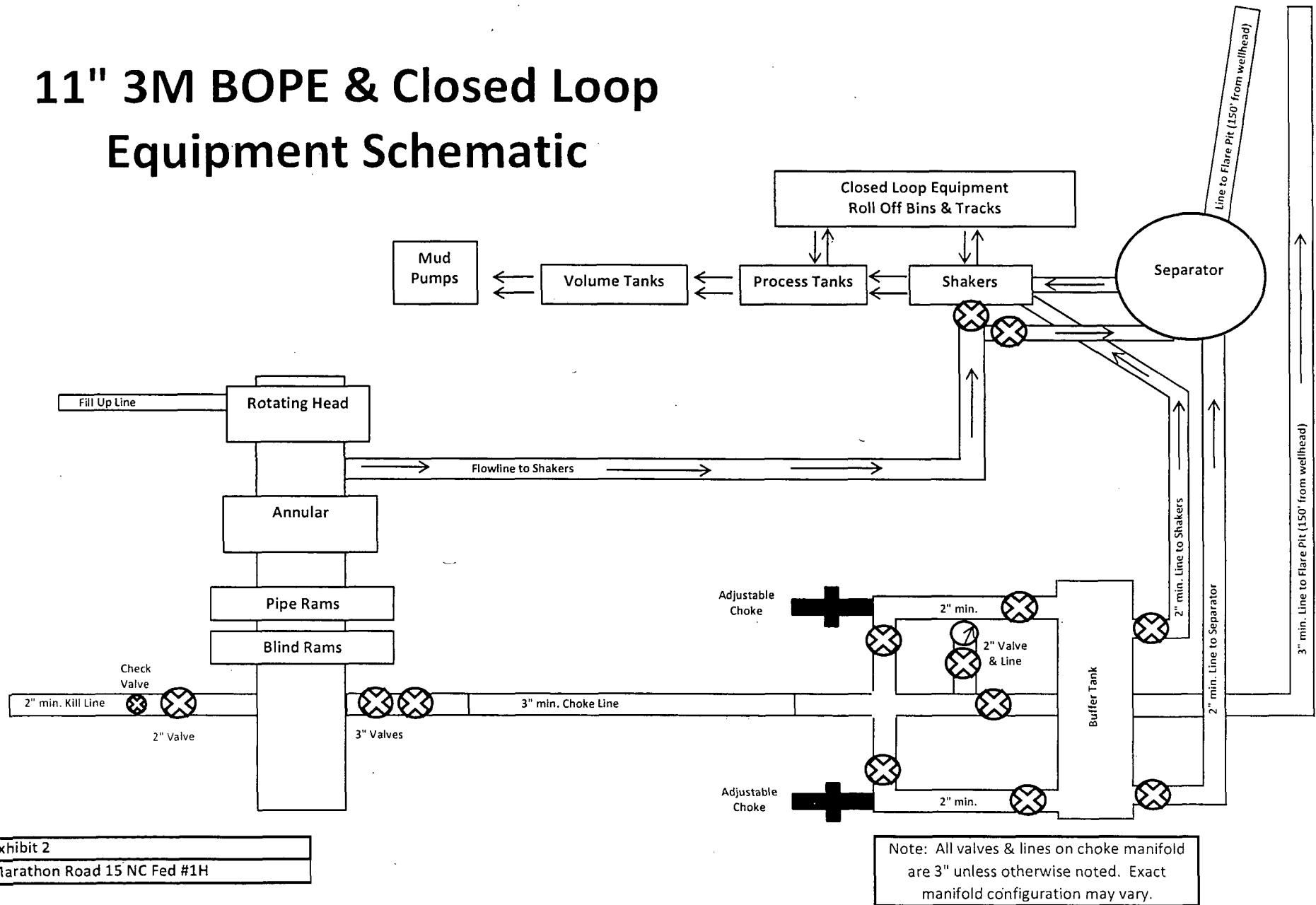


Exhibit 2A
Marathon Road 15 NC Fed #1H

11" 3M BOPE & Closed Loop Equipment Schematic



Notes Regarding Blowout Preventer

Mewbourne Oil Company

Marathon Road 15 NC Federal #1H

180' FSL & 1800' FWL (SHL)

Sec 15-T20S-R34E

Lea County, New Mexico

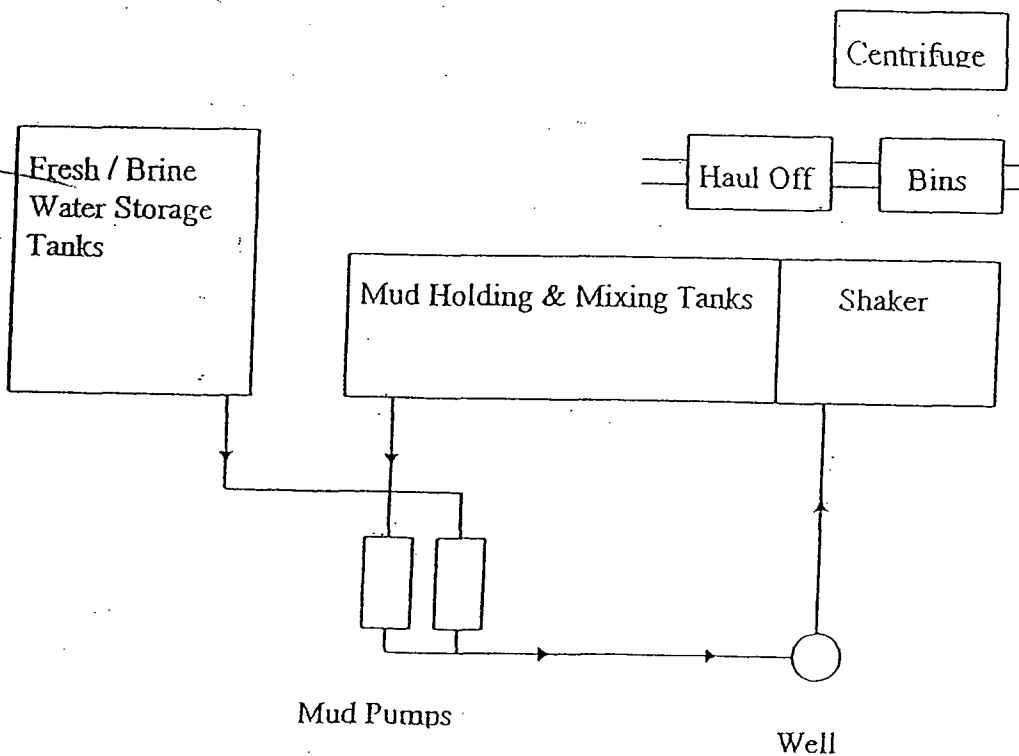
- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi 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.

OPERATING AND MAINTENANCE PLAN

1. The operator will maintain all liquids and solids within the closed loop system. To prevent the contamination of fresh water and protect public health & environment. Rig personnel will inspect system each tour & report any leaks or spills as required. Leaks in system will be properly fixed immediately.
2. Solids and contaminated fluid will be hauled to the approved facility as required.

Closed Loop System Design & Construction



Marathon Road 15 NC Federal #1H
Sec 15, T20S, R34E
Lea Co., NM

H2S Diagram
Closed Loop Pad Dimensions 280' x 320'

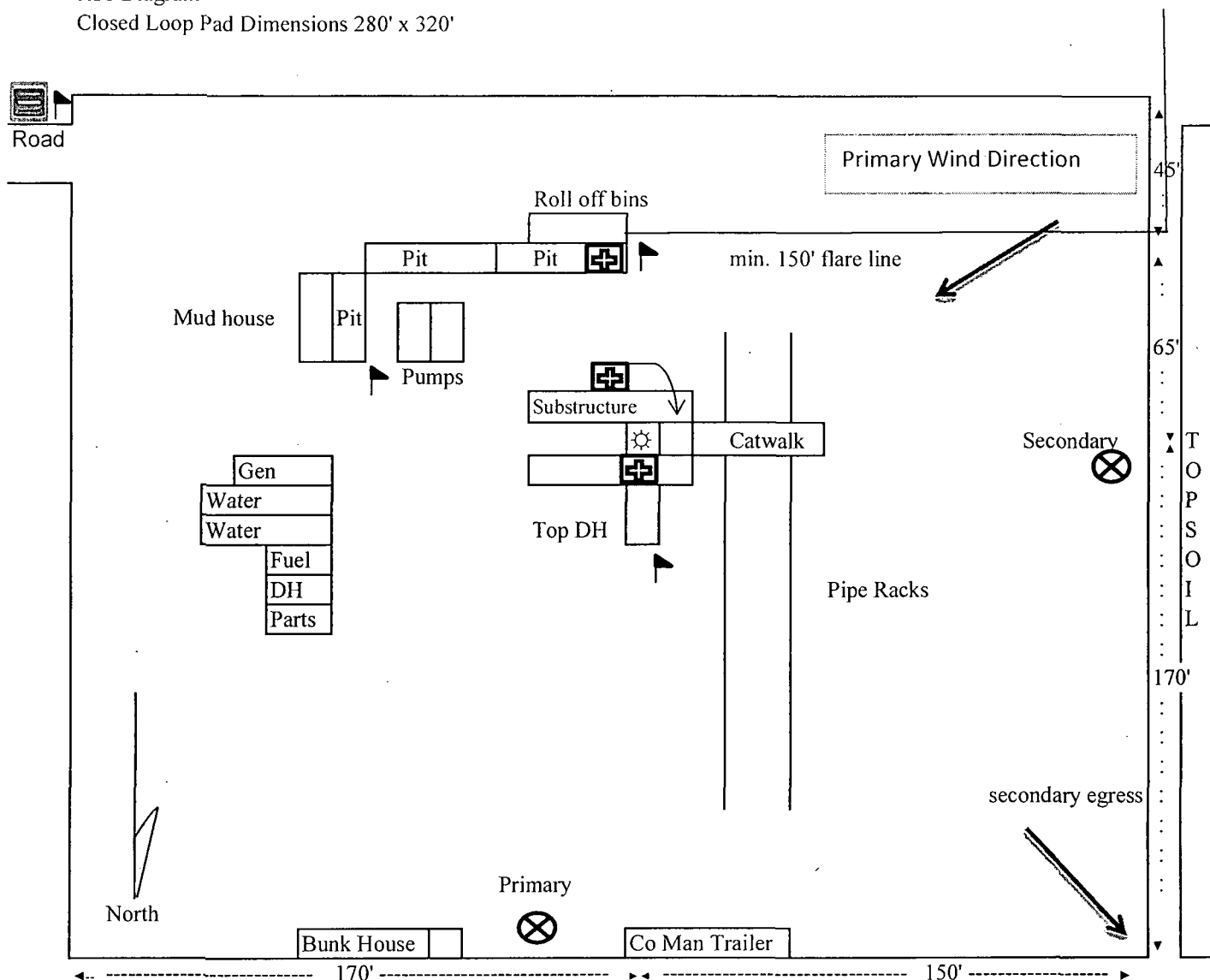


Exhibit 6

Mewbourne Oil Company
Marathon Road 15 NC Fed #1H
180' FSL & 1800' FWL
Sec. 15 T20S R34E
Lea County, NM



= Warning Signs



= Wind Markers



= H2S Monitors



= Safety Stations