

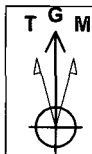


COMPANY: Mewbourne Oil Company
 WELL: Marathon Road 14 NC Fed #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #45



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.74°



Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 6.74°

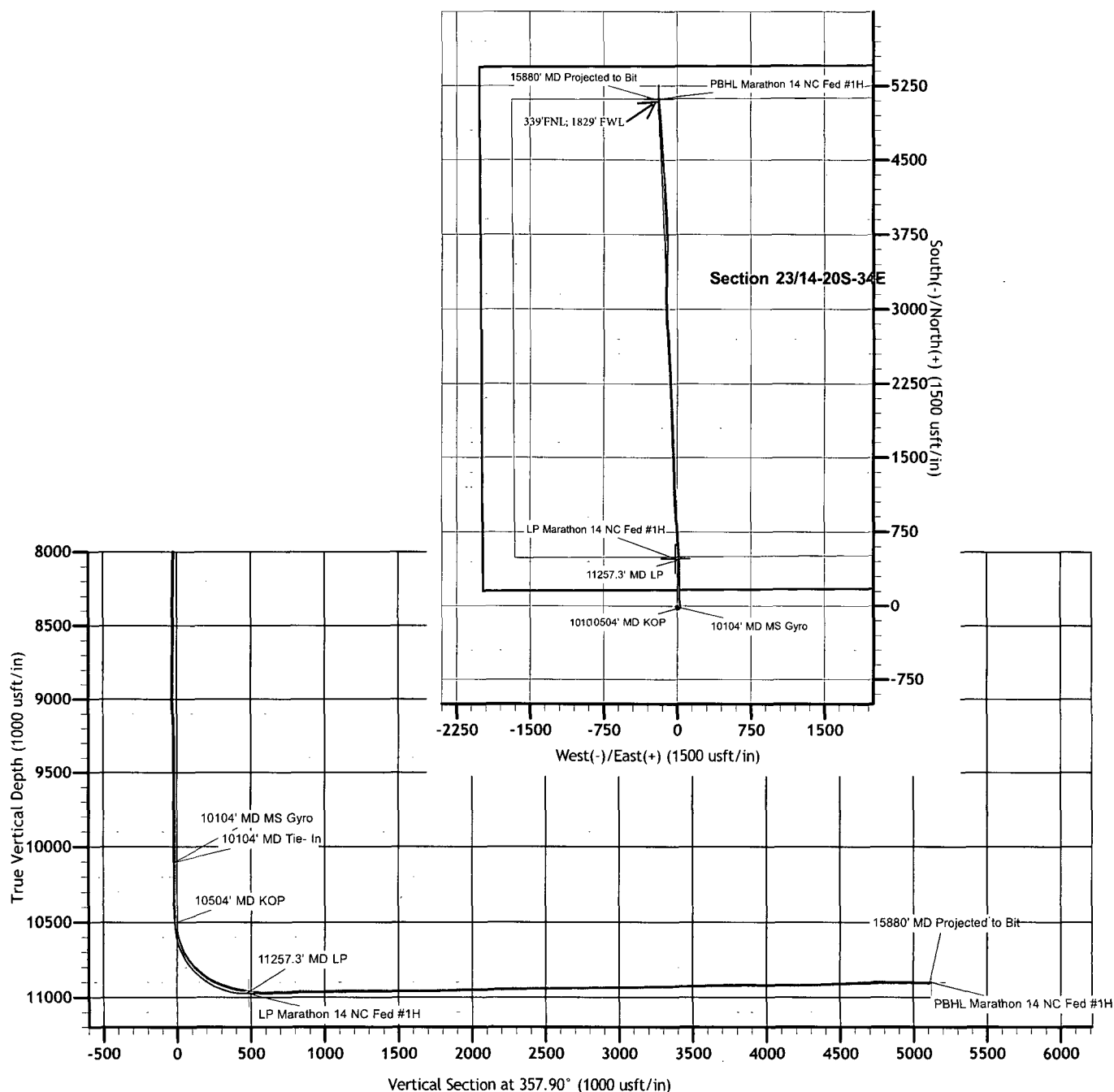
Magnetic Field
 Strength: 48484.7snT
 Dip Angle: 60.42°
 Date: 11/3/2014
 Model: IGRF2010

GEODETTIC ZONE: New Mexico East 3001
 3655 + 20 @ 3675.0usft (Patterson #45)
 GROUND ELEVATION: 3655.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	570291.15	746690.16	32° 33' 55.032 N	103° 31' 57.377 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	10104.0	0.54	345.53	10102.1	-18.0	33.7	0.00	0.00	-19.2	
2	10504.0	0.54	345.53	10502.0	-14.3	32.8	0.00	0.00	-15.5	
3	11257.3	90.92	357.55	10975.0	470.3	11.1	12.00	12.02	469.6	
4	15911.7	90.92	357.55	10900.0	5119.9	-188.1	0.00	0.00	5123.4	PBHL Marathon 14 NC Fed #1H



APP 2 9 2015



Mewbourne Oil Company .

Lea County N.M.

Section 23/14-20S-34E Marathon Road 14 NC Fed #1H

Marathon Road 14 NC Fed #1H

Original Hole

Design: Original Hole

Standard Survey Report

29 December, 2014

HOBBS OCD

MAR 24 2015

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Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 14 NC Fed #1H
Project:	Lea County N.M.	TVD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Site:	Section 23/14-20S-34E Marathon Road 14 NC Fed #1H	MD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Well:	Marathon Road 14 NC Fed #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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 23/14-20S-34E Marathon Road 14 NC Fed #1H				
Site Position:		Northing:	570,291.15 usft	Latitude:	32° 33' 55.032 N
From:	Map	Easting:	746,690.15 usft	Longitude:	103° 31' 57.377 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	Marathon Road 14 NC Fed #1H				
Well Position	+N/-S	0.0 usft	Northing:	570,291.15 usft	Latitude: 32° 33' 55.032 N
	+E/-W	0.0 usft	Easting:	746,690.15 usft	Longitude: 103° 31' 57.377 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level: 3,655.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/3/2014	7.17	60.42	48,485

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.90	

Survey Program	Date 12/29/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	10,104.0	MS Gyro Survey #1 (Original Hole)	GyroFlex		
10,227.0	15,880.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

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	0.22	237.31	100.0	-0.1	-0.2	-0.1	0.22	0.22	0.00
200.0	0.31	260.30	200.0	-0.3	-0.6	-0.2	0.14	0.09	22.99
300.0	0.29	252.66	300.0	-0.4	-1.1	-0.3	0.04	-0.02	-7.64
400.0	0.39	259.45	400.0	-0.5	-1.7	-0.5	0.11	0.10	6.79
500.0	0.42	249.65	500.0	-0.7	-2.4	-0.6	0.08	0.03	-9.80
600.0	0.38	267.56	600.0	-0.8	-3.0	-0.7	0.13	-0.04	17.91
700.0	0.54	265.02	700.0	-0.9	-3.8	-0.8	0.16	0.16	-2.54
800.0	0.60	255.30	800.0	-1.1	-4.8	-0.9	0.11	0.06	-9.72



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Marathon Road 14 NC Fed #1H
Project:	Lea County N.M.	TVD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Site:	Section 23/14-20S-34E Marathon Road 14 NC Fed #1H	MD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Well:	Marathon Road 14 NC Fed #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
900.0	0.69	246.73	900.0	-1.4	-5.9	-1.2	0.13	0.09	-8.57
1,000.0	0.61	230.05	1,000.0	-2.0	-6.8	-1.8	0.20	-0.08	-16.68
1,100.0	0.48	249.84	1,100.0	-2.5	-7.6	-2.2	0.23	-0.13	19.79
1,200.0	0.39	261.01	1,200.0	-2.7	-8.4	-2.4	0.12	-0.09	11.17
1,300.0	0.40	275.03	1,300.0	-2.7	-9.0	-2.4	0.10	0.01	14.02
1,400.0	0.23	306.67	1,400.0	-2.6	-9.5	-2.2	0.24	-0.17	31.64
1,500.0	0.33	312.09	1,500.0	-2.3	-9.9	-1.9	0.10	0.10	5.42
1,600.0	0.34	286.23	1,600.0	-2.0	-10.4	-1.6	0.15	0.01	-25.86
1,700.0	0.18	311.63	1,700.0	-1.8	-10.8	-1.4	0.19	-0.16	25.40
1,800.0	0.37	92.85	1,800.0	-1.7	-10.6	-1.3	0.52	0.19	141.22
1,900.0	0.13	202.96	1,900.0	-1.8	-10.3	-1.5	0.43	-0.24	110.11
2,000.0	0.15	130.06	2,000.0	-2.0	-10.3	-1.6	0.17	0.02	-72.90
2,100.0	0.24	252.08	2,100.0	-2.2	-10.4	-1.8	0.34	0.09	122.02
2,200.0	0.13	152.59	2,200.0	-2.3	-10.5	-1.9	0.29	-0.11	-99.49
2,300.0	0.06	273.94	2,300.0	-2.4	-10.5	-2.0	0.17	-0.07	121.35
2,400.0	0.17	125.90	2,400.0	-2.5	-10.5	-2.1	0.22	0.11	-148.04
2,500.0	0.11	150.59	2,500.0	-2.7	-10.3	-2.3	0.08	-0.06	24.69
2,600.0	0.25	132.05	2,600.0	-2.9	-10.1	-2.5	0.15	0.14	-18.54
2,700.0	0.47	108.68	2,699.9	-3.2	-9.5	-2.8	0.26	0.22	-23.37
2,800.0	1.24	106.73	2,799.9	-3.6	-8.1	-3.3	0.77	0.77	-1.95
2,900.0	1.81	106.70	2,899.9	-4.4	-5.6	-4.2	0.57	0.57	-0.03
3,000.0	2.13	109.16	2,999.8	-5.5	-2.3	-5.4	0.33	0.32	2.46
3,100.0	2.38	109.07	3,099.8	-6.8	1.4	-6.8	0.25	0.25	-0.09
3,200.0	2.69	108.88	3,199.7	-8.2	5.6	-8.4	0.31	0.31	-0.19
3,300.0	2.73	108.47	3,299.6	-9.7	10.1	-10.1	0.04	0.04	-0.41
3,400.0	2.34	108.41	3,399.5	-11.1	14.3	-11.6	0.39	-0.39	-0.06
3,500.0	1.41	103.86	3,499.4	-12.0	17.4	-12.7	0.94	-0.93	-4.55
3,600.0	0.89	96.47	3,599.4	-12.4	19.4	-13.1	0.54	-0.52	-7.39
3,700.0	0.66	83.23	3,699.4	-12.4	20.7	-13.2	0.29	-0.23	-13.24
3,800.0	0.34	343.68	3,799.4	-12.1	21.2	-12.9	0.79	-0.32	-99.55
3,900.0	0.38	2.81	3,899.4	-11.5	21.1	-12.2	0.13	0.04	19.13
4,000.0	0.52	41.55	3,999.4	-10.8	21.5	-11.6	0.33	0.14	38.74
4,100.0	0.50	15.60	4,099.4	-10.0	21.9	-10.8	0.23	-0.02	-25.95
4,200.0	0.23	34.80	4,199.4	-9.5	22.1	-10.3	0.29	-0.27	19.20
4,300.0	0.85	195.75	4,299.4	-10.0	22.0	-10.8	1.07	0.62	160.95
4,400.0	0.89	194.05	4,399.3	-11.5	21.6	-12.3	0.05	0.04	-1.70
4,500.0	1.27	212.93	4,499.3	-13.2	20.8	-13.9	0.52	0.38	18.88
4,600.0	1.20	222.81	4,599.3	-14.9	19.5	-15.6	0.22	-0.07	9.88
4,700.0	1.35	235.24	4,699.3	-16.3	17.9	-16.9	0.31	0.15	12.43
4,800.0	1.84	273.38	4,799.2	-16.9	15.3	-17.4	1.14	0.49	38.14
4,900.0	2.38	299.73	4,899.2	-15.8	11.9	-16.2	1.10	0.54	26.35
5,000.0	1.56	308.01	4,999.1	-13.9	9.0	-14.2	0.87	-0.82	8.28



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 14 NC Fed #1H
Project:	Lea County N.M.	TVD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Site:	Section 23/14-20S-34E Marathon Road 14 NC Fed #1H	MD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Well:	Marathon Road 14 NC Fed #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
5,100.0	1.47	298.02	5,099.1	-12.4	6.8	-12.7	0.28	-0.09	-9.99
5,200.0	1.25	301.41	5,199.1	-11.3	4.7	-11.4	0.23	-0.22	3.39
5,300.0	0.97	303.78	5,299.0	-10.2	3.1	-10.3	0.28	-0.28	2.37
5,400.0	1.15	296.11	5,399.0	-9.3	1.5	-9.4	0.23	0.18	-7.67
5,500.0	1.11	303.38	5,499.0	-8.3	-0.2	-8.3	0.15	-0.04	7.27
5,600.0	1.09	298.37	5,599.0	-7.4	-1.9	-7.3	0.10	-0.02	-5.01
5,700.0	0.96	309.95	5,699.0	-6.4	-3.3	-6.2	0.24	-0.13	11.58
5,800.0	0.82	299.76	5,799.0	-5.5	-4.6	-5.3	0.21	-0.14	-10.19
5,900.0	0.84	300.97	5,898.9	-4.7	-5.9	-4.5	0.03	0.02	1.21
6,000.0	0.68	322.64	5,998.9	-3.9	-6.8	-3.6	0.33	-0.16	21.67
6,100.0	0.77	314.73	6,098.9	-3.0	-7.7	-2.7	0.13	0.09	-7.91
6,200.0	0.47	307.39	6,198.9	-2.2	-8.5	-1.9	0.31	-0.30	-7.34
6,300.0	0.43	327.80	6,298.9	-1.7	-9.0	-1.3	0.16	-0.04	20.41
6,400.0	0.19	70.60	6,398.9	-1.3	-9.1	-1.0	0.51	-0.24	102.80
6,500.0	0.26	120.88	6,498.9	-1.4	-8.7	-1.0	0.20	0.07	50.28
6,600.0	0.75	135.76	6,598.9	-1.9	-8.1	-1.6	0.50	0.49	14.88
6,700.0	1.21	142.19	6,698.9	-3.2	-6.9	-3.0	0.47	0.46	6.43
6,800.0	1.37	155.59	6,798.9	-5.2	-5.8	-4.9	0.34	0.16	13.40
6,900.0	1.35	155.21	6,898.8	-7.3	-4.8	-7.1	0.02	-0.02	-0.38
7,000.0	1.40	167.60	6,998.8	-9.6	-4.1	-9.4	0.30	0.05	12.39
7,100.0	1.46	162.56	7,098.8	-12.0	-3.4	-11.9	0.14	0.06	-5.04
7,200.0	1.53	169.47	7,198.7	-14.5	-2.8	-14.4	0.19	0.07	6.91
7,300.0	1.13	160.26	7,298.7	-16.8	-2.2	-16.7	0.45	-0.40	-9.21
7,400.0	1.26	158.70	7,398.7	-18.7	-1.5	-18.6	0.13	0.13	-1.56
7,500.0	1.05	163.38	7,498.7	-20.6	-0.8	-20.6	0.23	-0.21	4.68
7,600.0	0.61	141.08	7,598.7	-21.9	-0.2	-21.9	0.54	-0.44	-22.30
7,700.0	0.46	164.84	7,698.7	-22.7	0.2	-22.7	0.26	-0.15	23.76
7,800.0	0.22	170.28	7,798.7	-23.3	0.4	-23.3	0.24	-0.24	5.44
7,900.0	0.44	179.55	7,898.7	-23.9	0.4	-23.9	0.23	0.22	9.27
8,000.0	0.59	199.59	7,998.7	-24.7	0.2	-24.7	0.23	0.15	20.04
8,100.0	0.63	192.00	8,098.7	-25.8	-0.1	-25.7	0.09	0.04	-7.59
8,200.0	0.42	196.28	8,198.6	-26.6	-0.3	-26.6	0.21	-0.21	4.28
8,300.0	0.35	125.03	8,298.6	-27.2	-0.1	-27.1	0.45	-0.07	-71.25
8,400.0	0.82	117.25	8,398.6	-27.7	0.7	-27.7	0.48	0.47	-7.78
8,500.0	1.42	124.52	8,498.6	-28.7	2.4	-28.8	0.62	0.60	7.27
8,600.0	1.41	112.44	8,598.6	-29.9	4.6	-30.0	0.30	-0.01	-12.08
8,700.0	1.74	100.59	8,698.6	-30.6	7.2	-30.9	0.46	0.33	-11.85
8,800.0	1.77	104.01	8,798.5	-31.3	10.2	-31.6	0.11	0.03	3.42
8,900.0	1.63	81.79	8,898.5	-31.4	13.1	-31.9	0.67	-0.14	-22.22
9,000.0	2.14	53.05	8,998.4	-30.1	16.0	-30.7	1.06	0.51	-28.74
9,100.0	2.58	45.04	9,098.3	-27.4	19.1	-28.1	0.55	0.44	-8.01
9,200.0	2.38	32.50	9,198.2	-24.1	21.8	-24.8	0.58	-0.20	-12.54
9,300.0	1.63	42.61	9,298.2	-21.3	23.9	-22.1	0.83	-0.75	10.11



Stryker Directional Survey Report



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Well:	Marathon Road 14 NC Fed #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	1.38	50.24	9,398.1	-19.5	25.7	-20.4	0.32	-0.25	7.63
9,500.0	1.30	81.30	9,498.1	-18.5	27.8	-19.5	0.72	-0.08	31.06
9,600.0	1.37	82.85	9,598.1	-18.2	30.1	-19.3	0.08	0.07	1.55
9,700.0	0.96	86.07	9,698.1	-18.0	32.1	-19.1	0.42	-0.41	3.22
9,800.0	0.38	125.24	9,798.1	-18.1	33.2	-19.3	0.71	-0.58	39.17
9,900.0	0.20	151.86	9,898.1	-18.5	33.6	-19.7	0.22	-0.18	26.62
10,000.0	0.12	35.68	9,998.1	-18.5	33.7	-19.8	0.27	-0.08	-116.18
10,100.0	0.51	349.43	10,098.1	-18.0	33.7	-19.2	0.44	0.39	-46.25
10,104.0	0.54	345.53	10,102.1	-18.0	33.7	-19.2	1.17	0.75	-97.50
10104' MD MS Gyro									
10,227.0	0.40	182.20	10,225.1	-17.8	33.5	-19.1	0.76	-0.11	-132.79
10,355.0	0.30	175.90	10,353.0	-18.6	33.5	-19.8	0.08	-0.08	-4.92
10,386.0	0.60	172.70	10,384.0	-18.9	33.6	-20.1	0.97	0.97	-10.32
10,418.0	0.80	82.90	10,416.0	-19.0	33.8	-20.2	3.12	0.63	-280.63
10,450.0	2.80	24.80	10,448.0	-18.3	34.4	-19.5	7.73	6.25	-181.56
10,482.0	5.80	359.30	10,479.9	-15.9	34.7	-17.2	10.90	9.38	-79.69
10,513.0	8.40	342.50	10,510.7	-12.2	34.0	-13.4	10.65	8.39	-54.19
10,545.0	11.50	341.90	10,542.2	-6.9	32.3	-8.1	9.69	9.69	-1.88
10,577.0	12.70	347.70	10,573.5	-0.5	30.5	-1.6	5.33	3.75	18.13
10,609.0	15.20	347.50	10,604.6	7.1	28.9	6.0	7.81	7.81	-0.63
10,640.0	18.90	346.90	10,634.2	15.9	26.9	14.9	11.95	11.94	-1.94
10,672.0	22.40	349.60	10,664.1	27.0	24.6	26.0	11.33	10.94	8.44
10,704.0	26.10	354.10	10,693.3	40.0	22.8	39.1	12.92	11.56	14.06
10,736.0	30.50	355.90	10,721.5	55.1	21.5	54.3	14.00	13.75	5.63
10,767.0	35.00	356.80	10,747.5	71.8	20.4	71.0	14.60	14.52	2.90
10,799.0	39.20	356.70	10,773.1	91.1	19.3	90.3	13.13	13.13	-0.31
10,831.0	42.90	356.10	10,797.2	112.0	18.0	111.3	11.63	11.56	-1.88
10,863.0	46.90	357.50	10,819.8	134.6	16.7	133.9	12.88	12.50	4.38
10,894.0	49.80	1.00	10,840.5	157.7	16.4	157.0	12.59	9.35	11.29
10,926.0	54.50	2.30	10,860.1	183.0	17.2	182.2	15.03	14.69	4.06
10,958.0	59.20	0.90	10,877.6	209.8	17.9	209.0	15.14	14.69	-4.38
10,990.0	63.10	0.00	10,893.0	237.8	18.1	237.0	12.43	12.19	-2.81
11,019.0	65.80	359.30	10,905.5	263.9	18.0	263.1	9.56	9.31	-2.41
11,051.0	68.90	359.30	10,917.8	293.5	17.6	292.6	9.69	9.69	0.00
11,082.0	71.90	359.60	10,928.2	322.7	17.3	321.8	9.72	9.68	0.97
11,114.0	73.60	359.60	10,937.7	353.2	17.1	352.4	5.31	5.31	0.00
11,146.0	75.40	359.40	10,946.3	384.1	16.8	383.2	5.66	5.63	-0.63
11,178.0	78.20	358.60	10,953.6	415.2	16.3	414.3	9.08	8.75	-2.50
11,209.0	80.10	357.90	10,959.4	445.6	15.4	444.8	6.52	6.13	-2.26
11,241.0	82.00	357.20	10,964.4	477.2	14.0	476.4	6.32	5.94	-2.19
11,250.6	82.66	357.20	10,965.7	486.7	13.6	485.9	6.88	6.88	0.00
LP Marathon 14 NC Fed #1H									
11,273.0	84.20	357.20	10,968.2	509.0	12.5	508.2	6.88	6.88	0.00



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 14 NC Fed #1H
Project:	Lea County N.M.	TVD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Site:	Section 23/14-20S-34E Marathon Road 14 NC Fed #1H	MD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Well:	Marathon Road 14 NC Fed #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
11,305.0	86.50	357.70	10,970.8	540.8	11.0	540.0	7.35	7.19	1.56
11,336.0	89.00	356.40	10,972.1	571.7	9.5	571.0	9.09	8.06	-4.19
11,351.0	90.90	356.10	10,972.1	586.7	8.5	586.0	12.82	12.67	-2.00
11,443.0	92.20	356.30	10,969.6	678.5	2.4	677.9	1.43	1.41	0.22
11,475.0	91.00	356.80	10,968.7	710.4	0.5	709.9	4.06	-3.75	1.56
11,538.0	90.90	356.40	10,967.6	773.3	-3.3	772.9	0.65	-0.16	-0.63
11,633.0	90.20	355.70	10,966.7	868.1	-9.8	867.8	1.04	-0.74	-0.74
11,729.0	91.70	356.60	10,965.1	963.8	-16.3	963.8	1.82	1.56	0.94
11,823.0	92.00	358.40	10,962.1	1,057.7	-20.4	1,057.7	1.94	0.32	1.91
11,918.0	89.90	357.10	10,960.5	1,152.6	-24.1	1,152.7	2.60	-2.21	-1.37
12,013.0	90.50	357.90	10,960.2	1,247.5	-28.2	1,247.7	1.05	0.63	0.84
12,108.0	89.80	358.50	10,959.9	1,342.4	-31.2	1,342.7	0.97	-0.74	0.63
12,203.0	89.80	358.50	10,960.3	1,437.4	-33.7	1,437.7	0.00	0.00	0.00
12,298.0	88.40	356.90	10,961.8	1,532.3	-37.5	1,532.7	2.24	-1.47	-1.68
12,393.0	91.60	358.40	10,961.8	1,627.2	-41.4	1,627.6	3.72	3.37	1.58
12,488.0	92.00	358.00	10,958.8	1,722.1	-44.4	1,722.6	0.60	0.42	-0.42
12,583.0	91.10	358.00	10,956.2	1,817.0	-47.7	1,817.6	0.95	-0.95	0.00
12,678.0	91.60	358.00	10,954.0	1,911.9	-51.0	1,912.5	0.53	0.53	0.00
12,773.0	91.30	357.20	10,951.6	2,006.8	-55.0	2,007.5	0.90	-0.32	-0.84
12,867.0	90.90	356.80	10,949.8	2,100.7	-59.9	2,101.5	0.60	-0.43	-0.43
12,962.0	91.80	357.80	10,947.5	2,195.6	-64.4	2,196.4	1.42	0.95	1.05
13,057.0	91.40	357.20	10,944.9	2,290.4	-68.5	2,291.4	0.76	-0.42	-0.63
13,152.0	90.60	356.50	10,943.2	2,385.3	-73.8	2,386.4	1.12	-0.84	-0.74
13,246.0	90.40	356.10	10,942.4	2,479.1	-79.8	2,480.3	0.48	-0.21	-0.43
13,342.0	90.30	357.10	10,941.8	2,574.9	-85.5	2,576.3	1.05	-0.10	1.04
13,437.0	90.70	356.50	10,941.0	2,669.7	-90.8	2,671.3	0.76	0.42	-0.63
13,532.0	90.60	356.50	10,939.9	2,764.6	-96.6	2,766.2	0.11	-0.11	0.00
13,627.0	91.40	358.40	10,938.3	2,859.4	-100.8	2,861.2	2.17	0.84	2.00
13,722.0	90.70	358.10	10,936.5	2,954.4	-103.7	2,956.2	0.80	-0.74	-0.32
13,817.0	89.90	357.20	10,936.0	3,049.3	-107.6	3,051.2	1.27	-0.84	-0.95
13,912.0	93.00	0.90	10,933.6	3,144.2	-109.2	3,146.1	5.08	3.26	3.89
14,007.0	91.00	1.70	10,930.3	3,239.1	-107.1	3,240.9	2.27	-2.11	0.84
14,102.0	90.20	0.90	10,929.3	3,334.1	-104.9	3,335.7	1.19	-0.84	-0.84
14,197.0	90.90	359.60	10,928.4	3,429.1	-104.5	3,430.6	1.55	0.74	-1.37
14,292.0	92.30	0.10	10,925.7	3,524.1	-104.7	3,525.5	1.56	1.47	0.53
14,387.0	92.80	1.60	10,921.5	3,619.0	-103.3	3,620.3	1.66	0.53	1.58
14,481.0	92.00	0.00	10,917.6	3,712.9	-102.0	3,714.1	1.90	-0.85	-1.70
14,576.0	89.60	358.20	10,916.2	3,807.8	-103.5	3,809.1	3.16	-2.53	-1.89
14,671.0	88.60	357.60	10,917.7	3,902.7	-107.0	3,904.0	1.23	-1.05	-0.63
14,766.0	88.70	356.30	10,920.0	3,997.6	-112.1	3,999.0	1.37	0.11	-1.37
14,861.0	90.70	356.40	10,920.5	4,092.4	-118.1	4,094.0	2.11	2.11	0.11
14,956.0	90.10	356.50	10,919.8	4,187.2	-124.0	4,188.9	0.64	-0.63	0.11



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 14 NC Fed #1H
Project:	Lea County N.M.	TVD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Site:	Section 23/14-20S-34E Marathon Road 14 NC Fed #1H	MD Reference:	3655 + 20 @ 3675.0usft (Patterson #45)
Well:	Marathon Road 14 NC Fed #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
15,050.0	91.00	354.50	10,918.9	4,280.9	-131.4	4,282.8	2.33	0.96	-2.13
15,145.0	93.00	355.10	10,915.6	4,375.4	-140.0	4,377.6	2.20	2.11	0.63
15,240.0	93.50	356.50	10,910.2	4,470.0	-146.9	4,472.4	1.56	0.53	1.47
15,335.0	92.60	356.50	10,905.2	4,564.7	-152.7	4,567.3	0.95	-0.95	0.00
15,430.0	91.30	357.90	10,901.9	4,659.6	-157.3	4,662.2	2.01	-1.37	1.47
15,525.0	90.50	357.30	10,900.4	4,754.5	-161.3	4,757.2	1.05	-0.84	-0.63
15,619.0	89.60	356.00	10,900.3	4,848.3	-166.8	4,851.2	1.68	-0.96	-1.38
15,714.0	89.60	356.20	10,901.0	4,943.1	-173.3	4,946.1	0.21	0.00	0.21
15,809.0	89.00	355.30	10,902.2	5,037.8	-180.3	5,041.0	1.14	-0.63	-0.95
15,834.0	88.80	355.10	10,902.6	5,062.7	-182.4	5,066.0	1.13	-0.80	-0.80
15,880.0	88.80	355.10	10,903.6	5,108.5	-186.3	5,111.9	0.00	0.00	0.00

15880' MD Projected to Bit - PBHL Marathon 14 NC Fed #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,104.0	10,102.1	-18.0	33.7	10104' MD MS Gyro
15,880.0	10,903.6	5,108.5	-186.3	15880' MD Projected to Bit

MARATHON ROAD 14 NC FED #1 H

Operating Company Mewbourne Oil Co.
Well Name & Number THON ROAD-14 NC FEDER
Sales Ticket Number 0
Date 11/9/2014

Company Rep TONY CROCI
Field 0
BOT Service Rep ERIK BEARD
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7'	26.00	110000	6.276	6.151	BTC / BUTT	0.03826	11,398.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4,847.74	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	10926.84	KOP	10350.00	Open Hole	6.125	Casing Vol. (bbl)	421.4
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Liner Top	1	10292414	JR Slv w 4.750" Alt Seal Bore ID	11013.26	4.00	5.750	3.913			

Zone Length

H4090400008	S-3 Casing Hanger Packer	11017.26	4.67	5.875	3.875					
H299900281	Combo Collar (4-1/2 LT&C)	11021.93	0.58	5.000	4.500					
H299710014	4-1/2" 13.5# LT&C Spacer Nipple	11022.51	6.57	4.500	3.938					
	11Jnts 4-1/2" 13.5# LT&C csg	11029.08	460.23	4.500	3.920					
H810090200	3.500" EXPress Sleeve (Zone 25)	11489.31	2.40	5.630		3.500	2286	306	421	
	2 Jnts 4-1/2" 13.5# LT&C csg	11491.71	83.12	4.500	3.920					
H409360008	582 OH PACKER #24	11574.83	3.89	5.820	3.875		2154			
	2 Jnts 4-1/2" 13.5# LT&C csg	11578.72	81.24	4.500	3.920					
H810090199	3.438" EXPress Sleeve (Zone 24)	11659.96	2.40	5.630		3.438	2286	295	421	
	2 Jnts 4-1/2" 13.5# LT&C csg	11662.36	82.54	4.500	3.920					
H409360008	582 OH PACKER #23	11744.90	3.89	5.820	3.875		2154			
	2 Jnts 4-1/2" 13.5# LT&C csg	11748.79	84.22	4.500	3.920					
H810090198	3.375" EXPress Sleeve (Zone 23)	11833.01	2.40	5.630		3.375	2286	284	421	
	3 Jnts 4-1/2" 13.5# LT&C csg	11835.41	124.09	4.500	3.920					
H409360008	582 OH PACKER #22	11959.50	3.89	5.820	3.875		2154			
	2 Jnts 4-1/2" 13.5# LT&C csg	11963.39	84.80	4.500	3.920					
H810090197	3.313" EXPress Sleeve (Zone 22)	12048.19	2.40	5.630		3.313	2286	274	421	
	2 Jnts 4-1/2" 13.5# LT&C csg	12050.59	85.22	4.500	3.920					
H409360008	582 OH PACKER #21	12135.81	3.89	5.820	3.875		2154			
	2 Jnts 4-1/2" 13.5# LT&C csg	12139.70	85.15	4.500	3.920					
H810090196	3.250" EXPress Sleeve (Zone 21)	12224.85	2.40	5.630		3.250	2286	264	421	
	2 Jnts 4-1/2" 13.5# LT&C csg	12227.25	85.17	4.500	3.920					

Operating Company Mewbourne Oil Co.
 Well Name & Number THON ROAD-14 NC FEDER
 Sales Ticket Number 0
 Date 11/9/2014

Company Rep TONY CROCI
 Field 0
 BOT Service Rep ERIK BEARD
 District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7"	26.00	110000	6.276	6.151	BTC / BUTT	0.03826	11,398.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4,847.74	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	10926.84	KOP	10350.00	Open Hole	6.125	Casing Vol. (bbl)	421.4
Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0		

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
	H409360008	582 OH PACKER #20	12312.42	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	12316.31	85.22	4.500	3.920				
	H810090195	3.188" EXPress Sleeve (Zone 20)	12401.53	2.40	5.630		3.188	2286	254	421
		2 Jnts 4-1/2" 13.5# LT&C csg	12403.93	85.10	4.500	3.920				
	H409360008	582 OH PACKER #19	12489.03	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	12492.92	84.54	4.500	3.920				
	H810090194	3.125" EXPress Sleeve (Zone 19)	12577.46	2.40	5.630		3.125	2286	244	421
		2 Jnts 4-1/2" 13.5# LT&C csg	12579.86	85.03	4.500	3.920				
	H409360008	582 OH PACKER #18	12664.89	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	12668.78	83.09	4.500	3.920				
	H810090193	3.063' EXPress Sleeve (Zone 18)	12752.68	2.40	5.630		3.063	2286	234	421
		3 Jnts 4-1/2" 13.5# LT&C csg	12755.08	127.82	4.500	3.920				
	H409360008	582 OH PACKER #17	12882.90	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	12886.79	85.25	4.500	3.920				
	H810090192	3.00" EXPress Sleeve (Zone 17)	12972.04	2.40	5.630		3.000	2286	225	421
		2 Jnts 4-1/2" 13.5# LT&C csg	12974.44	85.26	4.500	3.920				
	H409360008	582 OH PACKER #16	13059.70	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	13063.59	85.04	4.500	3.920				
	H810090191	2.938" EXPress Sleeve (Zone 16)	13148.63	2.40	5.630		2.938	2286	215	421
		2 Jnts 4-1/2" 13.5# LT&C csg	13151.03	85.15	4.500	3.920				
H409360008	582 OH PACKER #15	13236.18	3.89	5.820	3.875		2154			
	2 Jnts 4-1/2" 13.5# LT&C csg	13240.07	85.12	4.500	3.920					
H810090190	2.875" EXPress Sleeve (Zone 15)	13325.19	2.40	5.630		2.875	2286	206	421	
	2 Jnts 4-1/2" 13.5# LT&C csg	13327.59	85.10	4.500	3.920					
H409360008	582 OH PACKER #14	13412.69	3.89	5.820	3.875		2154			
	2 Jnts 4-1/2" 13.5# LT&C csg	13416.58	84.24	4.500	3.920					

Operating Company Mewbourne Oil Co.
 Well Name & Number THON ROAD-14 NC FEDER
 Sales Ticket Number 0
 Date 11/9/2014

Company Rep TONY CROCI
 Field 0
 BOT Service Rep ERIK BEARD
 District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7"	26.00	110000	6.276	6.151	BTC / BUTT	0.03826	11,398.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4,847.74	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	10926.84	KOP	10350.00	Open Hole	6.125	Casing Vol. (bbl)	421.4
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
	H810090189	2.813" EXPress Sleeve (Zone 14)	13500.82	2.40	5.630		2.813	2286	197	421
		3 Jnts 4-1/2" 13.5# LT&C csg	13503.22	123.19	4.500	3.920				
	H409360008	582 OH PACKER #13	13626.41	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	13630.30	85.22	4.500	3.920				
	H810090188	2.750" EXPress Sleeve (Zone 13)	13715.52	2.40	5.630		2.750	2286	189	421
		2 Jnts 4-1/2" 13.5# LT&C csg	13717.92	85.15	4.500	3.920				
	H409360008	582 OH PACKER #12	13803.07	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	13806.96	85.26	4.500	3.920				
	H810090187	2.688" EXPress Sleeve (Zone 12)	13892.22	2.40	5.630		2.688	2286	180	421
		2 Jnts 4-1/2" 13.5# LT&C csg	13894.62	84.52	4.500	3.920				
	H409360008	582 OH PACKER #11	13979.14	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	13983.03	85.19	4.500	3.920				
	H810090186	2.625" EXPress Sleeve (Zone 11)	14068.22	2.40	5.630		2.625	2286	172	421
		2 Jnts 4-1/2" 13.5# LT&C csg	14070.62	83.60	4.500	3.920				
	H409360008	582 OH PACKER #10	14154.22	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	14158.11	85.15	4.500	3.920				
	H810090185	2.563" EXPress Sleeve (Zone 10)	14243.26	2.40	5.630		2.563	2286	164	421
		2 Jnts 4-1/2" 13.5# LT&C csg	14245.66	83.92	4.500	3.920				
	H409360008	582 OH PACKER #9	14329.58	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	14333.47	84.40	4.500	3.920				
	H810090184	2.500" EXPress Sleeve (Zone 9)	14417.87	2.40	5.630		2.500	2286	156	421
		3 Jnts 4-1/2" 13.5# LT&C csg	14420.27	127.16	4.500	3.920				
	H409360008	582 OH PACKER #8	14547.43	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	14551.32	85.07	4.500	3.920				
	H810090183	2.438" EXPress Sleeve (Zone 8)	14636.39	2.40	5.630		2.438	2286	148	421
		2 Jnts 4-1/2" 13.5# LT&C csg	14638.79	85.21	4.500	3.920				

Operating Company Mewbourne Oil Co.
 Well Name & Number THON ROAD-14 NC FEDER
 Sales Ticket Number 0
 Date 11/9/2014

Company Rep TONY CROCI
 Field 0
 BOT Service Rep ERIK BEARD
 District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7'	26.00	110000	6.276	6.151	BTC / BUTT	0.03826	11,398.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4,847.74	12,410	10,690	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-	
TVD		10926.84		KOP		10350.00		Open Hole	6.125	Casing Vol. (bbl)	421.4
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
	H409360008	582 OH PACKER #7	14724.00	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	14727.89	84.73	4.500	3.920				
	H810090182	2.375" EXPress Sleeve (Zone7)	14812.62	2.40	5.630		2.375	2286	141	421
		2 Jnts 4-1/2" 13.5# LT&C csg	14815.02	85.21	4.500	3.920				
	H409360008	582 OH PACKER #6	14900.23	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	14904.12	85.12	4.500	3.920				
	H810090181	2.313" EXPress Sleeve (Zone6)	14989.24	2.40	5.630	3.920	2.313	2286	134	421
		2 Jnts 4-1/2" 13.5# LT&C csg	14991.64	84.86	4.500	3.920				
	H409360008	582 OH PACKER #5	15076.50	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	15080.39	81.47	4.500	3.920				
	H810090180	2.250" EXPress Sleeve (Zone5)	15161.86	2.40	5.630		2.250	2286	126	421
		2 Jnts 4-1/2" 13.5# LT&C csg	15164.26	82.11	4.500	3.920				
	H409360008	582 OH PACKER #4	15246.37	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	15250.26	83.96	4.500	3.920				
	H810090179	2.188" EXPress Sleeve (Zone4)	15334.22	2.40	5.630		2.188	2286	119	421
		2 Jnts 4-1/2" 13.5# LT&C csg	15336.62	81.20	4.500	3.920				
	H409360008	582 OH PACKER #3	15417.82	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	15421.71	85.22	4.500	3.920				
	H810090178	2.125" EXPress Sleeve (Zone3)	15506.93	2.40	5.630		2.125	2286	113	421
		2 Jnts 4-1/2" 13.5# LT&C csg	15509.33	82.66	4.500	3.920				
	H409360008	582 OH PACKER #2	15591.99	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	15595.88	84.73	4.500	3.920				
	H810090177	2.063" EXPress Sleeve (Zone2)	15680.61	2.40	5.630		2.063	2286	106	421
		2 Jnts 4-1/2" 13.5# LT&C csg	15683.01	85.26	4.500	3.920				
	H409360008	582 OH PACKER #1	15768.27	3.89	5.820	3.875		2154		
		2 Jnts 4-1/2" 13.5# LT&C csg	15772.16	83.43	4.500	3.920				





January 9, 2015

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Marathon Road 14 NC Federal #001H
Lea; Bone Spring
Lea County, New Mexico
API# 30-025-40984

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Don May	Original Hole	10,227ft. to 15,834ft.	12-14-14 to 12-26-14	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Marathon Road 14 NC Federal #1H\M141260

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



January 9, 2015

Survey Certification Report

STATE OF TEXAS
COUNTY OF Montgomery

HOBBS OCD

MAR 24 2015

RECEIVED

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of December 14, 2014 thru December 26, 2014, conduct or supervise the taking of a SEDS MWD Survey from a depth of 10,227 feet to a depth of 15,880 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Marathon Road 14 NC Federal #001 well, API # **30-025-40984** in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in cursive script, appearing to read "Todd Estes", written over a horizontal line.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163

OCD Permitting

Home > Wells > Well Details

30-025-40984 MARATHON ROAD 14 NC FEDERAL #001H [39691]

General Well Information

Operator: [14744] MEWBOURNE OIL CO
Status: New
Well Type: Oil
Work Type: New
Surface Location: C-23-20S-34E 170 FNL 1980 FWL
Lat/Long: 32.5654317468887,-103.533049565362
GL Elevation: 3655
Direction: .
Lease Type: Federal
Sing/Mult Compl: Single
Potash Waiver: False

Proposed Formation and/or Notes

LEA BONE SPRING

Depths

Proposed: 10900
Measured Vertical Depth: 0
Total Vertical Depth: 0
Plugback Measured: 0

Formation Tops

Formation	Top	Producing
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Event Dates

Initial APD Approval: 01/25/2013
Most Recent APD Approval: 01/25/2013
APD Cancellation:
APD Extension Approval:
Spud:
Approved Temporary Abandonment:
Shut In Waiting For Pipeline:
Plug and Abandoned Intent Received:
Well Plugged:
Site Release:
Last Inspection: 02/14/2013
Current APD Expiration: 01/25/2015
TA Expiration:
PNR Expiration:
Last MIT:

History

Effective Date	Property	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
01/25/2013	[39691] MARATHON ROAD 14 NC FEDERAL	[14744] MEWBOURNE OIL CO	New	Oil	Active		

Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

Co:	Stryker Energy Directional Services LLC.	Units:	Feet, °, %/100ft	VS Az:	357.90	Method:	Minimum Curvature
Drillers:	Jeremy Bull, Sam Nix, Chris Coffin	Elevation:	3655.00	Map System:	NAD27, US-SPC27-EXACT, New Mexico East		
Well Name:	Marathon Road 14 NC Federal #1H	Northing:	570291.15	Latitude:	32° 33' 55.032 N		
Location:	Lea County, New Mexico LEA; Bone Spring	Easting:	746690.16	Longitude:	103° 31' 57.377 W		

:: Marathon Road 14 NC Federal #1H: M141260

No.	MD	CL	Inc.	Azi.	TVD	VS	+N/S-	+E/W-	BR	WR	DLS	Comments
1	10104.00	0.00	0.54	345.53	10102.10	-19.22	-18.00	33.70				Tie-in to MS Gyro Survey
2	10227.00	123.00	0.40	182.20	10225.10	-19.08	-17.87	33.54	-0.11	-132.79	0.76	
3	10355.00	128.00	0.30	175.90	10353.10	-19.87	-18.65	33.55	-0.08	-4.92	0.08	
4	10386.00	31.00	0.60	172.70	10384.10	-20.11	-18.89	33.57	0.97	-10.32	0.97	
5	10418.00	32.00	0.80	82.90	10416.09	-20.26	-19.03	33.81	0.62	-280.63	3.12	
6	10450.00	32.00	2.80	24.80	10448.08	-19.54	-18.29	34.36	6.25	-181.56	7.73	
7	10482.00	32.00	5.80	359.30	10479.99	-17.22	-15.96	34.67	9.37	-79.69	10.90	
8	10513.00	31.00	8.40	342.50	10510.75	-13.47	-12.24	33.97	8.39	-54.19	10.65	
9	10545.00	32.00	11.50	341.90	10542.26	-8.15	-6.98	32.28	9.69	-1.88	9.69	
10	10577.00	32.00	12.70	347.70	10573.55	-1.62	-0.51	30.54	3.75	18.12	5.33	
11	10609.00	32.00	15.20	347.50	10604.61	5.96	7.03	28.88	7.81	-0.63	7.81	
12	10640.00	31.00	18.90	346.90	10634.24	14.89	15.89	26.86	11.94	-1.94	11.95	
13	10672.00	32.00	22.40	349.60	10664.18	26.02	26.94	24.59	10.94	8.44	11.33	
14	10704.00	32.00	26.10	354.10	10693.35	39.08	39.94	22.76	11.56	14.06	12.92	
15	10736.00	32.00	30.50	355.90	10721.52	54.23	55.05	21.46	13.75	5.62	14.00	
16	10767.00	31.00	35.00	356.80	10747.59	70.99	71.78	20.40	14.52	2.90	14.60	
17	10799.00	32.00	39.20	356.70	10773.11	90.28	91.05	19.30	13.12	-0.31	13.13	
18	10831.00	32.00	42.90	356.10	10797.23	111.29	112.02	17.98	11.56	-1.88	11.63	
19	10863.00	32.00	46.90	357.50	10819.90	133.86	134.57	16.73	12.50	4.37	12.87	
20	10894.00	31.00	49.80	1.00	10840.50	157.01	157.72	16.44	9.35	11.29	12.59	
21	10926.00	32.00	54.50	2.30	10860.13	182.22	182.97	17.18	14.69	4.06	15.03	
22	10958.00	32.00	59.20	0.90	10877.62	208.94	209.74	17.92	14.69	-4.38	15.14	
23	10990.00	32.00	63.10	360.00	10893.06	236.94	237.76	18.13	12.19	-2.81	12.43	
24	11019.00	29.00	65.80	359.30	10905.57	263.09	263.92	17.97	9.31	-2.41	9.56	
25	11051.00	32.00	68.90	359.30	10917.89	292.61	293.45	17.61	9.69	0.00	9.69	
26	11082.00	31.00	71.90	359.60	10928.29	321.80	322.65	17.33	9.68	0.97	9.72	
27	11114.00	32.00	73.60	359.60	10937.78	352.34	353.21	17.12	5.31	0.00	5.31	
28	11146.00	32.00	75.40	359.40	10946.33	383.17	384.04	16.85	5.62	-0.63	5.66	
29	11178.00	32.00	78.20	358.60	10953.63	414.31	415.19	16.30	8.75	-2.50	9.08	
30	11209.00	31.00	80.10	357.90	10959.47	444.76	445.62	15.37	6.13	-2.26	6.52	
31	11241.00	32.00	82.00	357.20	10964.45	476.36	477.20	14.02	5.94	-2.19	6.32	
32	11273.00	32.00	84.20	357.20	10968.29	508.13	508.93	12.47	6.87	0.00	6.87	
33	11305.00	32.00	86.50	357.70	10970.89	540.02	540.79	11.05	7.19	1.56	7.35	
34	11336.00	31.00	89.00	356.40	10972.10	570.99	571.72	9.46	8.06	-4.19	9.09	
35	11351.00	15.00	90.90	356.10	10972.12	585.98	586.69	8.48	12.67	-2.00	12.82	
36	11443.00	92.00	92.20	356.30	10969.63	677.91	678.45	2.38	1.41	0.22	1.43	
37	11475.00	32.00	91.00	356.80	10968.73	709.88	710.38	0.46	-3.75	1.56	4.06	
38	11538.00	63.00	90.90	356.40	10967.69	772.86	773.26	-3.28	-0.16	-0.64	0.65	
39	11633.00	95.00	90.20	355.70	10966.78	867.80	868.03	-9.82	-0.74	-0.74	1.04	
40	11729.00	96.00	91.70	356.60	10965.19	963.74	963.79	-16.27	1.56	0.94	1.82	
41	11823.00	94.00	92.00	358.40	10962.15	1057.69	1057.65	-20.37	0.32	1.91	1.94	
42	11918.00	95.00	89.90	357.10	10960.58	1152.67	1152.56	-24.10	-2.21	-1.37	2.60	
43	12013.00	95.00	90.50	357.90	10960.24	1247.66	1247.47	-28.24	0.63	0.84	1.05	
44	12108.00	95.00	89.80	358.50	10960.00	1342.66	1342.42	-31.22	-0.74	0.63	0.97	

Co:	Stryker Energy Directional Services LLC.	Units:	Feet, °, %/100ft	VS Az:	357.90	Method:	Minimum Curvature
Drillers:	Jeremy Bull, Sam Nix, Chris Coffin	Elevation:	3655.00	Map System:	NAD27, US-SPC27-EXACT, New Mexico East		
Well Name:	Marathon Road 14 NC Federal #1H	Northing:	570291.15	Latitude:	32° 33' 55.032 N		
Location:	Lea County, New Mexico LEA; Bone Spring	Easting:	746690.16	Longitude:	103° 31' 57.377 W		

: : Marathon Road 14 NC Federal #1H: M141260

No.	MD	CL	Inc.	Azi.	TVD	VS	+N/S-	+E/W-	BR	WR	DLS	Comments
45	12203.00	95.00	89.80	358.50	10960.33	1437.65	1437.38	-33.71	0.00	0.00	0.00	
46	12298.00	95.00	88.40	356.90	10961.82	1532.64	1532.29	-37.52	-1.47	-1.68	2.24	
47	12393.00	95.00	91.60	358.40	10961.82	1627.62	1627.20	-41.42	3.37	1.58	3.72	
48	12488.00	95.00	92.00	358.00	10958.83	1722.57	1722.10	-44.40	0.42	-0.42	0.60	
49	12583.00	95.00	91.10	358.00	10956.27	1817.54	1817.01	-47.71	-0.95	0.00	0.95	
50	12678.00	95.00	91.60	358.00	10954.03	1912.51	1911.92	-51.03	0.53	0.00	0.53	
51	12773.00	95.00	91.30	357.20	10951.62	2007.48	2006.81	-55.00	-0.32	-0.84	0.90	
52	12867.00	94.00	90.90	356.80	10949.82	2101.45	2100.66	-59.92	-0.43	-0.43	0.60	
53	12962.00	95.00	91.80	357.80	10947.58	2196.41	2195.53	-64.40	0.95	1.05	1.42	
54	13057.00	95.00	91.40	357.20	10944.93	2291.37	2290.40	-68.54	-0.42	-0.63	0.76	
55	13152.00	95.00	90.60	356.50	10943.27	2386.34	2385.24	-73.76	-0.84	-0.74	1.12	
56	13246.00	94.00	90.40	356.10	10942.45	2480.30	2479.04	-79.82	-0.21	-0.43	0.48	
57	13342.00	96.00	90.30	357.10	10941.86	2576.27	2574.87	-85.52	-0.10	1.04	1.05	
58	13437.00	95.00	90.70	356.50	10941.03	2671.25	2669.72	-90.82	0.42	-0.63	0.76	
59	13532.00	95.00	90.60	356.50	10939.96	2766.22	2764.53	-96.62	-0.11	0.00	0.11	
60	13627.00	95.00	91.40	358.40	10938.30	2861.19	2859.42	-100.84	0.84	2.00	2.17	
61	13722.00	95.00	90.70	358.10	10936.56	2956.18	2954.36	-103.74	-0.74	-0.32	0.80	
62	13817.00	95.00	89.90	357.20	10936.06	3051.17	3049.28	-107.64	-0.84	-0.95	1.27	
63	13912.00	95.00	93.00	0.90	10933.65	3146.09	3144.20	-109.22	3.26	3.89	5.08	
64	14007.00	95.00	91.00	1.70	10930.34	3240.86	3239.12	-107.06	-2.11	0.84	2.27	
65	14102.00	95.00	90.20	0.90	10929.34	3335.69	3334.08	-104.91	-0.84	-0.84	1.19	
66	14197.00	95.00	90.90	359.60	10928.43	3430.60	3429.08	-104.49	0.74	-1.37	1.55	
67	14292.00	95.00	92.30	0.10	10925.78	3525.51	3524.04	-104.74	1.47	0.53	1.56	
68	14387.00	95.00	92.80	1.60	10921.55	3620.29	3618.93	-103.33	0.53	1.58	1.66	
69	14481.00	94.00	92.00	0.00	10917.62	3714.08	3712.83	-102.02	-0.85	-1.70	1.90	
70	14576.00	95.00	89.60	358.20	10916.29	3809.04	3807.80	-103.51	-2.53	-1.89	3.16	
71	14671.00	95.00	88.60	357.60	10917.78	3904.02	3902.73	-106.99	-1.05	-0.63	1.23	
72	14766.00	95.00	88.70	356.30	10920.02	3998.98	3997.56	-112.05	0.11	-1.37	1.37	
73	14861.00	95.00	90.70	356.40	10920.52	4093.94	4092.36	-118.10	2.11	0.11	2.11	
74	14956.00	95.00	90.10	356.50	10919.85	4188.91	4187.18	-123.98	-0.63	0.11	0.64	
75	15050.00	94.00	91.00	354.50	10918.95	4282.82	4280.88	-131.35	0.96	-2.13	2.33	
76	15145.00	95.00	93.00	355.10	10915.64	4377.61	4375.42	-139.96	2.11	0.63	2.20	
77	15240.00	95.00	93.50	356.50	10910.25	4472.40	4470.01	-146.90	0.53	1.47	1.56	
78	15335.00	95.00	92.60	356.50	10905.19	4567.23	4564.70	-152.69	-0.95	0.00	0.95	
79	15430.00	95.00	91.30	357.90	10901.96	4662.17	4659.53	-157.33	-1.37	1.47	2.01	
80	15525.00	95.00	90.50	357.30	10900.47	4757.15	4754.43	-161.31	-0.84	-0.63	1.05	
81	15619.00	94.00	89.60	356.00	10900.39	4851.13	4848.27	-166.80	-0.96	-1.38	1.68	
82	15714.00	95.00	89.60	356.20	10901.05	4946.08	4943.05	-173.26	0.00	0.21	0.21	
83	15809.00	95.00	89.00	355.30	10902.21	5041.00	5037.78	-180.30	-0.63	-0.95	1.14	
84	15834.00	25.00	88.80	355.10	10902.69	5065.97	5062.69	-182.39	-0.80	-0.80	1.13	
85	15880.00	46.00	88.80	355.10	10903.65	5111.90	5108.51	-186.32	0.00	0.00	0.00	Projection

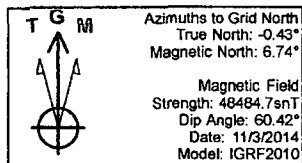


COMPANY: Mewbourne Oil Company
 WELL: Marathon Road 14 NC Fed #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #45



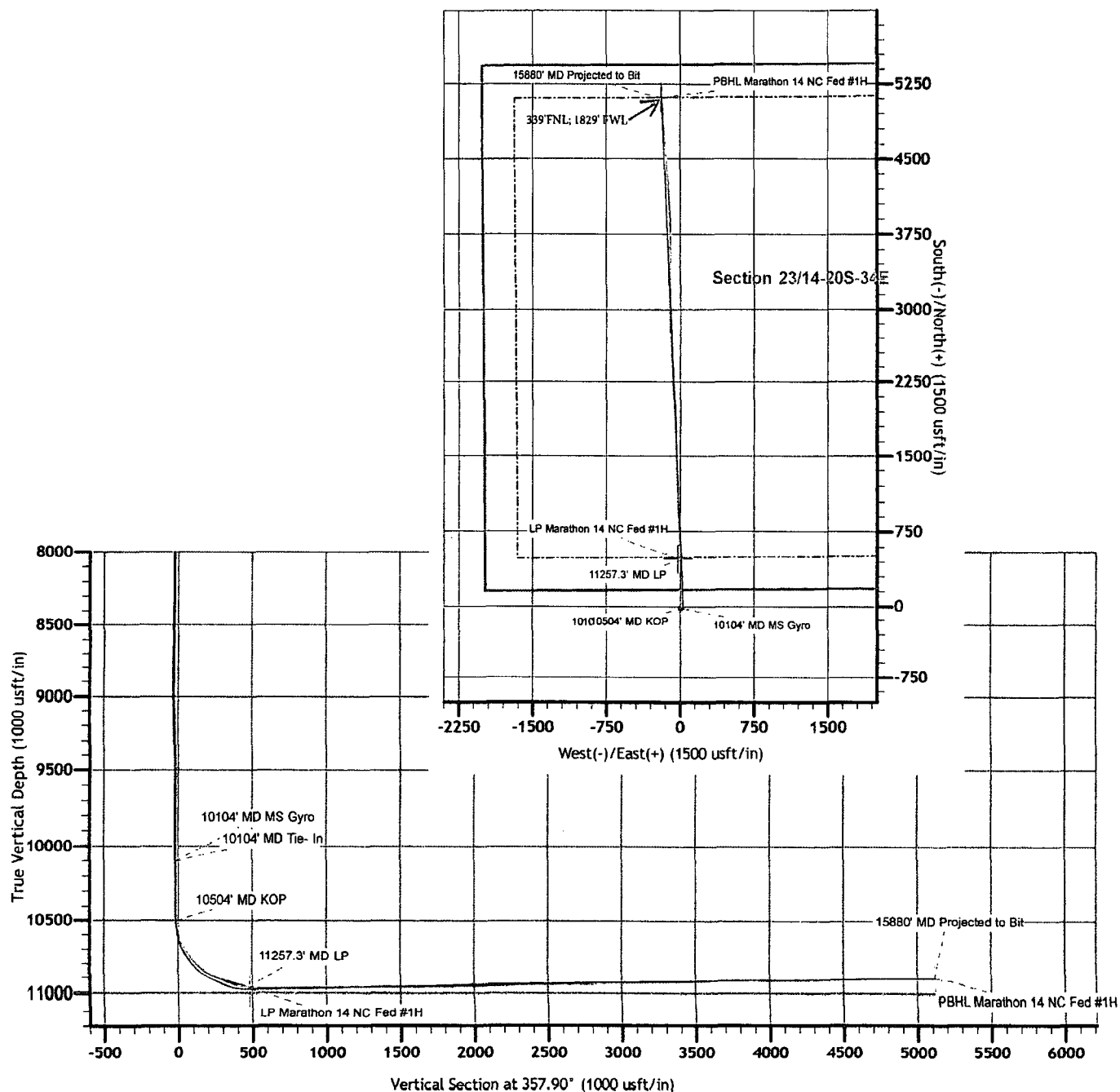
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.74°

OFFICE: 936.582.7296



GEODETTIC ZONE: New Mexico East 3001					
3655 + 20 @ 3675.0usft (Patterson #45)					
GROUND ELEVATION: 3655.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	570291.15	746690.16	32° 33' 55.032 N	103° 31' 57.377 W

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	10104.0	0.54	345.53	10102.1	-18.0	33.7	0.00	0.00	-19.2	
2	10504.0	0.54	345.53	10502.0	-14.3	32.8	0.00	0.00	-15.5	
3	11257.3	90.92	357.55	10975.0	470.3	11.1	12.00	12.02	469.6	
4	15911.7	90.92	357.55	10900.0	5119.9	-188.1	0.00	0.00	5123.4	PBHL Marathon 14 NC Fed #1H





Job Number: SVMO-141667
 Company: Mewbourne Oil & Gas
 Lease/Well: Marathon Road 14NC Federal 1H
 Location: Lea County, NM
 Rig Name: Patterson #45
 RKB: 23'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 6.74°
 Grid: East To Grid North
 File name: S:\2014SU~1\MEWBOU~1\MO\MARATHON14NCFE~1\1H.SVY
 Date/Time: 11-Dec-14 / 08:58
 Curve Name: Surface - 10104' M.D. (Rate Gyro)

HOBBS OCD

MAR 24 2015

RECEIVED

MS SURVEY

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 357.90
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 10,104' MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.
 Harley Patterson 12/11/14
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.22	237.31	100.00	-.10	-.16	-.10	.19	237.31	.22
200.00	.31	260.30	200.00	-.25	-.59	-.23	.64	246.79	.14
300.00	.29	252.66	300.00	-.37	-1.10	-.33	1.16	251.19	.04
400.00	.39	259.45	400.00	-.51	-1.67	-.45	1.75	253.00	.11
500.00	.42	249.65	499.99	-.70	-2.35	-.61	2.45	253.40	.08
600.00	.38	267.56	599.99	-.84	-3.03	-.73	3.14	254.44	.13
700.00	.54	265.02	699.99	-.90	-3.83	-.76	3.93	256.80	.16
800.00	.60	255.30	799.98	-1.07	-4.80	-.90	4.92	257.42	.11
900.00	.69	246.73	899.98	-1.44	-5.86	-1.23	6.04	256.18	.13

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	.61	230.05	999.97	-2.02	-6.82	-1.77	7.12	253.49	.20
1100.00	.48	249.84	1099.97	-2.51	-7.63	-2.23	8.03	251.79	.23
1200.00	.39	261.01	1199.96	-2.71	-8.36	-2.40	8.78	252.06	.12
1300.00	.40	275.03	1299.96	-2.73	-9.04	-2.40	9.44	253.20	.10
1400.00	.23	306.67	1399.96	-2.58	-9.55	-2.23	9.89	254.89	.24
1500.00	.33	312.09	1499.96	-2.27	-9.92	-1.90	10.18	257.14	.10
1600.00	.34	286.23	1599.96	-1.99	-10.42	-1.61	10.61	259.19	.15
1700.00	.18	311.63	1699.95	-1.80	-10.82	-1.40	10.97	260.55	.19
1800.00	.37	92.85	1799.95	-1.71	-10.62	-1.32	10.76	260.83	.52
1900.00	.13	202.96	1899.95	-1.83	-10.34	-1.45	10.50	259.94	.43
2000.00	.15	130.06	1999.95	-2.02	-10.28	-1.64	10.48	258.87	.17
2100.00	.24	252.08	2099.95	-2.17	-10.38	-1.79	10.61	258.19	.34
2200.00	.13	152.59	2199.95	-2.34	-10.53	-1.95	10.79	257.49	.29
2300.00	.06	273.94	2299.95	-2.43	-10.53	-2.05	10.81	256.99	.17
2400.00	.17	125.90	2399.95	-2.52	-10.46	-2.13	10.76	256.47	.22
2500.00	.11	150.59	2499.95	-2.69	-10.30	-2.31	10.64	255.37	.08
2600.00	.25	132.05	2599.95	-2.92	-10.09	-2.55	10.50	253.87	.15
2700.00	.47	108.68	2699.95	-3.20	-9.54	-2.84	10.06	251.48	.26
2800.00	1.24	106.73	2799.94	-3.64	-8.11	-3.34	8.89	245.84	.77
2900.00	1.81	106.70	2899.90	-4.40	-5.56	-4.20	7.09	231.63	.57
3000.00	2.13	109.16	2999.84	-5.47	-2.29	-5.38	5.93	202.76	.33
3100.00	2.38	109.07	3099.77	-6.76	1.42	-6.80	6.90	168.10	.25
3200.00	2.69	108.88	3199.67	-8.19	5.61	-8.39	9.93	145.62	.31
3300.00	2.73	108.47	3299.56	-9.71	10.09	-10.07	14.00	133.90	.04
3400.00	2.34	108.41	3399.46	-11.11	14.28	-11.62	18.09	127.87	.39
3500.00	1.41	103.86	3499.40	-12.05	17.41	-12.68	21.17	124.67	.94
3600.00	.89	96.47	3599.38	-12.43	19.38	-13.13	23.02	122.67	.54
3700.00	.66	83.23	3699.37	-12.45	20.72	-13.20	24.17	120.99	.29
3800.00	.34	343.68	3799.37	-12.09	21.21	-12.86	24.42	119.69	.79

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3900.00	.38	2.81	3899.37	-11.48	21.14	-12.25	24.06	118.50	.13
4000.00	.52	41.55	3999.37	-10.81	21.46	-11.59	24.03	116.73	.33
4100.00	.50	15.60	4099.36	-10.05	21.88	-10.84	24.08	114.67	.23
4200.00	.23	34.80	4199.36	-9.46	22.11	-10.27	24.05	113.17	.29
4300.00	.85	195.75	4299.36	-10.01	22.03	-10.81	24.19	114.45	1.07
4400.00	.89	194.05	4399.35	-11.48	21.64	-12.26	24.49	117.95	.05
4500.00	1.27	212.93	4499.33	-13.16	20.84	-13.92	24.65	122.27	.52
4600.00	1.20	222.81	4599.30	-14.86	19.53	-15.57	24.54	127.27	.22
4700.00	1.35	235.24	4699.28	-16.30	17.85	-16.94	24.17	132.40	.31
4800.00	1.84	273.38	4799.24	-16.88	15.28	-17.43	22.77	137.84	1.14
4900.00	2.38	299.73	4899.18	-15.75	11.87	-16.18	19.73	142.99	1.10
5000.00	1.56	308.01	4999.12	-13.89	9.00	-14.21	16.55	147.05	.87
5100.00	1.47	298.02	5099.08	-12.44	6.79	-12.69	14.18	151.37	.28
5200.00	1.25	301.41	5199.05	-11.27	4.73	-11.44	12.23	157.24	.23
5300.00	.97	303.78	5299.04	-10.23	3.10	-10.34	10.69	163.17	.28
5400.00	1.15	296.11	5399.02	-9.32	1.49	-9.37	9.44	170.91	.23
5500.00	1.11	303.38	5499.00	-8.35	-.22	-8.33	8.35	181.50	.15
5600.00	1.09	298.37	5598.98	-7.36	-1.86	-7.29	7.60	194.20	.10
5700.00	.96	309.95	5698.97	-6.37	-3.34	-6.25	7.20	207.68	.24
5800.00	.82	299.76	5798.95	-5.48	-4.61	-5.31	7.16	220.05	.21
5900.00	.84	300.97	5898.94	-4.75	-5.86	-4.53	7.54	230.97	.03
6000.00	.68	322.64	5998.93	-3.90	-6.84	-3.65	7.88	240.33	.33
6100.00	.77	314.73	6098.93	-2.95	-7.68	-2.67	8.23	248.96	.13
6200.00	.47	307.39	6198.92	-2.23	-8.49	-1.92	8.77	255.26	.31
6300.00	.43	327.80	6298.92	-1.67	-9.01	-1.33	9.16	259.53	.16
6400.00	.19	70.60	6398.92	-1.29	-9.05	-.96	9.15	261.87	.51
6500.00	.26	120.88	6498.92	-1.35	-8.70	-1.03	8.81	261.15	.20
6600.00	.75	135.76	6598.91	-1.94	-8.05	-1.64	8.28	256.45	.50
6700.00	1.21	142.19	6698.90	-3.24	-6.95	-2.99	7.67	244.98	.47

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6800.00	1.37	155.59	6798.87	-5.17	-5.81	-4.95	7.77	228.34	.34
6900.00	1.35	155.21	6898.84	-7.32	-4.82	-7.14	8.77	213.34	.02
7000.00	1.40	167.60	6998.81	-9.59	-4.06	-9.43	10.41	202.97	.30
7100.00	1.46	162.56	7098.78	-11.99	-3.42	-11.86	12.47	195.91	.14
7200.00	1.53	169.47	7198.75	-14.52	-2.79	-14.41	14.79	190.89	.19
7300.00	1.13	160.26	7298.72	-16.76	-2.22	-16.67	16.91	187.53	.45
7400.00	1.26	158.70	7398.70	-18.72	-1.48	-18.65	18.77	184.53	.13
7500.00	1.05	163.38	7498.68	-20.62	-.82	-20.57	20.63	182.28	.23
7600.00	.61	141.08	7598.67	-21.91	-.23	-21.89	21.91	180.59	.54
7700.00	.46	164.84	7698.67	-22.71	.21	-22.70	22.71	179.46	.26
7800.00	.22	170.28	7798.66	-23.29	.35	-23.29	23.29	179.14	.24
7900.00	.44	179.55	7898.66	-23.86	.39	-23.86	23.87	179.07	.23
8000.00	.59	199.59	7998.66	-24.73	.22	-24.72	24.73	179.50	.23
8100.00	.63	192.00	8098.65	-25.75	-.07	-25.73	25.75	180.16	.09
8200.00	.42	196.28	8198.65	-26.64	-.29	-26.61	26.64	180.62	.21
8300.00	.35	125.03	8298.65	-27.17	-.14	-27.15	27.17	180.29	.45
8400.00	.82	117.25	8398.64	-27.67	.75	-27.68	27.68	178.45	.48
8500.00	1.42	124.52	8498.62	-28.70	2.40	-28.77	28.80	175.21	.62
8600.00	1.41	112.44	8598.59	-29.87	4.56	-30.02	30.22	171.32	.30
8700.00	1.74	100.59	8698.55	-30.62	7.19	-30.87	31.46	166.78	.46
8800.00	1.77	104.01	8798.51	-31.28	10.18	-31.63	32.89	161.97	.11
8900.00	1.63	81.79	8898.46	-31.45	13.09	-31.91	34.06	157.40	.67
9000.00	2.14	53.05	8998.41	-30.12	15.99	-30.69	34.10	152.04	1.06
9100.00	2.58	45.04	9098.33	-27.41	19.07	-28.09	33.39	145.17	.55
9200.00	2.38	32.50	9198.23	-24.07	21.78	-24.85	32.46	137.85	.58
9300.00	1.63	42.61	9298.17	-21.27	23.86	-22.13	31.96	131.72	.83
9400.00	1.38	50.24	9398.14	-19.45	25.75	-20.38	32.27	127.07	.32
9500.00	1.30	81.30	9498.11	-18.51	27.80	-19.52	33.40	123.66	.72
9600.00	1.37	82.85	9598.08	-18.19	30.10	-19.28	35.17	121.14	.08

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
9700.00	.96	86.07	9698.06	-17.98	32.12	-19.15	36.82	119.24	.42
9800.00	.38	125.24	9798.06	-18.12	33.23	-19.32	37.85	118.60	.71
9900.00	.20	151.86	9898.06	-18.46	33.58	-19.68	38.33	118.80	.22
10000.00	.12	35.68	9998.05	-18.53	33.73	-19.76	38.48	118.79	.27
10100.00	.51	349.43	10098.05	-18.01	33.71	-19.23	38.22	118.12	.44

Last Survey Depth Recorded									
10104.00	.54	345.53	10102.05	-17.97	33.70	-19.20	38.19	118.07	1.17