

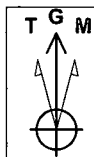


COMPANY: Mewbourne Oil Company
 WELL: Marathon Road 15 B3OB Federal #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson#45



OFFICE: 936.582.7296

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



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

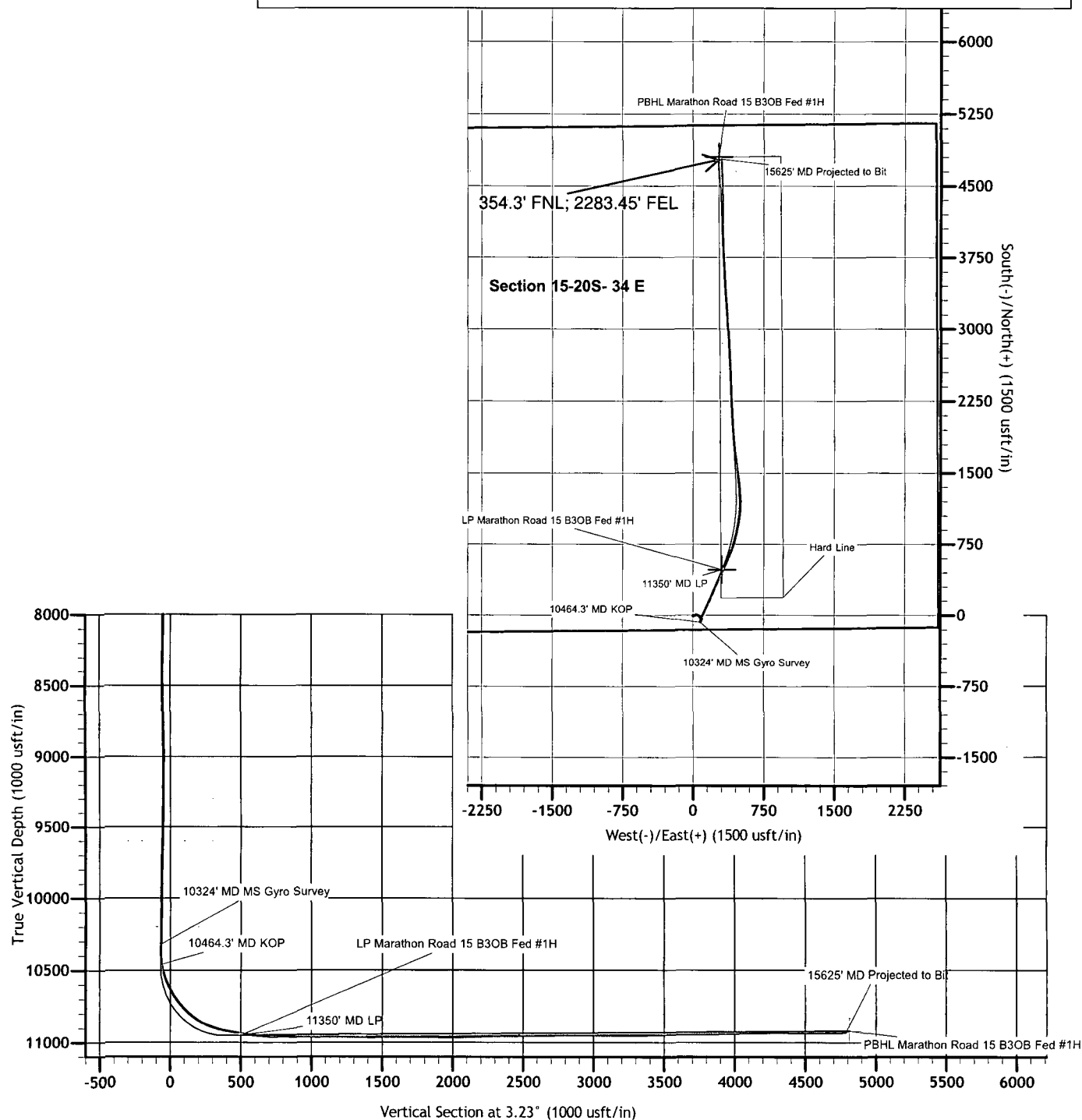
Magnetic Field
 Strength: 48568.2snT
 Dip Angle: 60.44°
 Date: 12/31/2013
 Model: IGRF2010

GEODETIC ZONE: New Mexico East 3001
 GL 3649 + 20 @ 3669.0usft (Patterson#45)
 GROUND ELEVATION: 3649.0

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

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	10324.0	1.28	213.39	10321.6	-69.4	75.1	0.00	0.00	-65.0	
2	10464.3	1.28	213.39	10461.9	-72.0	73.4	0.00	0.00	-67.7	
3	11228.1	90.39	22.99	10949.8	371.2	259.3	12.00	169.59	385.3	LP Marathon Road 15 B3OB Fed #1H
4	11350.2	90.39	22.99	10949.0	483.7	307.0	0.00	0.00	500.2	
5	12217.8	90.39	356.96	10942.9	1330.8	455.9	3.00	-89.91	1354.4	
6	15696.4	90.39	356.96	10919.0	4804.4	271.5	0.00	0.00	4812.1	PBHL Marathon Road 15 B3OB Fed #1H



FEB 18 2015



Mewbourne Oil Company .

Lea County N.M.

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

Marathon Road 15 B3OB Federal #1H

Original Hole

Design: Original Hole

Standard Survey Report

06 November, 2014

HOBBSOCD

JAN 05 2015

RECEIVED





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Project:	Lea County N.M.	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	MD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Well:	Marathon Road 15 B3OB Federal #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 15-20S- 34 E Marathon Road 15 B3OB		
Site Position:		Northing:	570,575.10 usft
From:	Map	Easting:	742,098.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 33' 58.181 N
		Longitude:	103° 32' 51.003 W
		Grid Convergence:	0.42 °

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

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

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	3.23

Survey Program	Date	11/6/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	10,324.0	MS Gyro Survey (Original Hole)	GyroFlex	
10,357.0	15,625.0	Stryker MWD Survey (Original Hole)	MWD	MWD v3:standard declination

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	0.01	99.61	100.0	0.0	0.0	0.0	0.01	0.01	0.00
200.0	0.08	193.51	200.0	-0.1	0.0	-0.1	0.08	0.07	93.90
300.0	0.06	34.44	300.0	-0.1	0.0	-0.1	0.14	-0.02	-159.07
400.0	0.11	85.99	400.0	0.0	0.1	0.0	0.09	0.05	51.55
500.0	0.13	37.29	500.0	0.1	0.3	0.1	0.10	0.02	-48.70
600.0	0.16	62.01	600.0	0.2	0.5	0.2	0.07	0.03	24.72
700.0	0.18	28.53	700.0	0.4	0.7	0.4	0.10	0.02	-33.48
800.0	0.27	283.13	800.0	0.6	0.5	0.6	0.36	0.09	-105.40
900.0	0.20	222.63	900.0	0.5	0.2	0.5	0.24	-0.07	-60.50



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Project:	Lea County N.M.	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	MD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Well:	Marathon Road 15 B3OB Federal #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)
1,000.0	0.23	189.82	1,000.0	0.2	0.0	0.2	0.12	0.03	-32.81
1,100.0	0.52	188.61	1,100.0	-0.4	-0.1	-0.4	0.29	0.29	-1.21
1,200.0	0.58	187.61	1,200.0	-1.4	-0.2	-1.4	0.06	0.06	-1.00
1,300.0	0.97	185.13	1,300.0	-2.7	-0.3	-2.8	0.39	0.39	-2.48
1,400.0	0.82	187.77	1,400.0	-4.3	-0.5	-4.3	0.16	-0.15	2.64
1,500.0	0.61	169.71	1,500.0	-5.5	-0.5	-5.5	0.31	-0.21	-18.06
1,600.0	0.80	150.19	1,600.0	-6.7	-0.1	-6.6	0.30	0.19	-19.52
1,700.0	1.03	111.08	1,699.9	-7.6	1.1	-7.5	0.65	0.23	-39.11
1,800.0	0.88	85.87	1,799.9	-7.9	2.7	-7.7	0.44	-0.15	-25.21
1,900.0	0.27	17.28	1,899.9	-7.6	3.6	-7.4	0.82	-0.61	-68.59
2,000.0	0.32	52.63	1,999.9	-7.2	3.8	-6.9	0.19	0.05	35.35
2,100.0	0.27	90.84	2,099.9	-7.0	4.3	-6.8	0.20	-0.05	38.21
2,200.0	0.13	83.65	2,199.9	-7.0	4.7	-6.7	0.14	-0.14	-7.19
2,300.0	0.27	136.97	2,299.9	-7.2	4.9	-6.9	0.22	0.14	53.32
2,400.0	0.20	105.73	2,399.9	-7.4	5.3	-7.1	0.14	-0.07	-31.24
2,500.0	0.29	91.71	2,499.9	-7.4	5.7	-7.1	0.11	0.09	-14.02
2,600.0	0.25	200.98	2,599.9	-7.6	5.9	-7.3	0.44	-0.04	109.27
2,700.0	0.65	61.39	2,699.9	-7.6	6.3	-7.2	0.86	0.40	-139.59
2,800.0	1.64	58.17	2,799.9	-6.6	8.0	-6.1	0.99	0.99	-3.22
2,900.0	2.21	60.03	2,899.8	-4.8	10.9	-4.2	0.57	0.57	1.86
3,000.0	2.53	63.22	2,999.8	-2.9	14.5	-2.1	0.35	0.32	3.19
3,100.0	3.05	65.36	3,099.6	-0.8	18.9	0.3	0.53	0.52	2.14
3,200.0	3.06	66.96	3,199.5	1.4	23.8	2.7	0.09	0.01	1.60
3,300.0	3.14	69.78	3,299.3	3.4	28.8	5.0	0.17	0.08	2.82
3,400.0	2.50	82.97	3,399.2	4.6	33.5	6.5	0.91	-0.64	13.19
3,500.0	1.86	96.25	3,499.2	4.7	37.3	6.8	0.81	-0.64	13.28
3,600.0	1.42	105.39	3,599.1	4.2	40.1	6.4	0.51	-0.44	9.14
3,700.0	1.31	107.82	3,699.1	3.5	42.4	5.9	0.12	-0.11	2.43
3,800.0	1.40	109.08	3,799.1	2.7	44.6	5.3	0.09	0.09	1.26
3,900.0	1.62	107.28	3,899.0	1.9	47.1	4.6	0.23	0.22	-1.80
4,000.0	1.91	117.49	3,999.0	0.7	50.0	3.5	0.43	0.29	10.21
4,100.0	1.56	122.94	4,098.9	-0.8	52.6	2.2	0.39	-0.35	5.45
4,200.0	1.27	113.51	4,198.9	-2.0	54.8	1.1	0.37	-0.29	-9.43
4,300.0	1.52	101.96	4,298.9	-2.7	57.1	0.5	0.38	0.25	-11.55
4,400.0	1.67	109.97	4,398.8	-3.4	59.7	-0.1	0.27	0.15	8.01
4,500.0	1.61	113.16	4,498.8	-4.5	62.4	-1.0	0.11	-0.06	3.19
4,600.0	2.06	144.57	4,598.7	-6.5	64.7	-2.9	1.08	0.45	31.41
4,700.0	1.99	143.91	4,698.7	-9.4	66.8	-5.6	0.07	-0.07	-0.66
4,800.0	2.04	142.89	4,798.6	-12.2	68.9	-8.3	0.06	0.05	-1.02
4,900.0	2.07	143.03	4,898.5	-15.1	71.1	-11.0	0.03	0.03	0.14
5,000.0	2.05	142.55	4,998.5	-17.9	73.2	-13.8	0.03	-0.02	-0.48
5,100.0	2.00	133.95	5,098.4	-20.6	75.6	-16.3	0.31	-0.05	-8.60
5,200.0	2.04	131.63	5,198.4	-23.0	78.2	-18.5	0.09	0.04	-2.32



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Project:	Lea County N.M.	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	MD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Well:	Marathon Road 15 B3OB Federal #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)
5,300.0	1.95	133.55	5,298.3	-25.3	80.7	-20.7	0.11	-0.09	1.92
5,400.0	1.68	136.22	5,398.2	-27.5	83.0	-22.8	0.28	-0.27	2.67
5,500.0	1.43	139.50	5,498.2	-29.5	84.8	-24.7	0.27	-0.25	3.28
5,600.0	0.93	124.98	5,598.2	-31.0	86.3	-26.1	0.58	-0.50	-14.52
5,700.0	0.94	121.01	5,698.2	-31.8	87.6	-26.9	0.07	0.01	-3.97
5,800.0	0.85	130.68	5,798.2	-32.8	88.9	-27.7	0.18	-0.09	9.67
5,900.0	0.64	156.10	5,898.2	-33.7	89.7	-28.6	0.39	-0.21	25.42
6,000.0	0.44	131.37	5,998.2	-34.5	90.2	-29.4	0.30	-0.20	-24.73
6,100.0	0.33	104.61	6,098.2	-34.8	90.8	-29.7	0.21	-0.11	-26.76
6,200.0	0.64	144.64	6,198.1	-35.4	91.4	-30.2	0.44	0.31	40.03
6,300.0	0.44	188.10	6,298.1	-36.2	91.6	-31.0	0.44	-0.20	43.46
6,400.0	0.64	267.15	6,398.1	-36.6	91.0	-31.4	0.70	0.20	79.05
6,500.0	0.55	290.60	6,498.1	-36.5	90.0	-31.3	0.26	-0.09	23.45
6,600.0	0.24	197.22	6,598.1	-36.5	89.5	-31.4	0.61	-0.31	-93.38
6,700.0	0.40	166.31	6,698.1	-37.0	89.5	-31.9	0.23	0.16	-30.91
6,800.0	0.37	117.99	6,798.1	-37.5	89.9	-32.4	0.32	-0.03	-48.32
6,900.0	0.64	158.13	6,898.1	-38.2	90.4	-33.0	0.43	0.27	40.14
7,000.0	0.70	201.27	6,998.1	-39.3	90.4	-34.1	0.50	0.06	43.14
7,100.0	0.68	169.86	7,098.1	-40.4	90.3	-35.3	0.37	-0.02	-31.41
7,200.0	1.11	199.72	7,198.1	-41.9	90.0	-36.8	0.62	0.43	29.86
7,300.0	0.63	205.03	7,298.1	-43.3	89.5	-38.2	0.49	-0.48	5.31
7,400.0	1.06	203.36	7,398.1	-44.7	88.9	-39.6	0.43	0.43	-1.67
7,500.0	0.96	209.53	7,498.1	-46.3	88.1	-41.2	0.15	-0.10	6.17
7,600.0	1.05	210.24	7,598.0	-47.8	87.2	-42.8	0.09	0.09	0.71
7,700.0	1.46	200.60	7,698.0	-49.8	86.3	-44.8	0.46	0.41	-9.64
7,800.0	1.08	207.02	7,798.0	-51.8	85.4	-46.9	0.41	-0.38	6.42
7,900.0	1.26	193.74	7,898.0	-53.7	84.8	-48.9	0.32	0.18	-13.28
8,000.0	1.38	201.08	7,998.0	-55.9	84.1	-51.1	0.21	0.12	7.34
8,100.0	0.82	179.35	8,097.9	-57.7	83.6	-52.9	0.69	-0.56	-21.73
8,200.0	0.87	202.50	8,197.9	-59.2	83.4	-54.4	0.34	0.05	23.15
8,300.0	0.64	214.84	8,297.9	-60.3	82.7	-55.6	0.28	-0.23	12.34
8,400.0	0.29	179.28	8,397.9	-61.0	82.4	-56.3	0.44	-0.35	-35.56
8,500.0	0.99	1.54	8,497.9	-60.4	82.5	-55.7	1.28	0.70	-177.74
8,600.0	1.13	15.16	8,597.9	-58.6	82.7	-53.9	0.29	0.14	13.62
8,700.0	1.41	1.52	8,697.9	-56.4	83.0	-51.7	0.41	0.28	-13.64
8,800.0	1.40	0.89	8,797.8	-54.0	83.1	-49.2	0.02	-0.01	-0.63
8,900.0	0.26	13.31	8,897.8	-52.5	83.1	-47.8	1.15	-1.14	12.42
9,000.0	0.35	275.53	8,997.8	-52.3	82.9	-47.5	0.46	0.09	-97.78
9,100.0	1.07	235.12	9,097.8	-52.8	81.8	-48.1	0.83	0.72	-40.41
9,200.0	1.13	217.09	9,197.8	-54.1	80.5	-49.5	0.35	0.06	-18.03
9,300.0	0.65	197.75	9,297.8	-55.4	79.7	-50.9	0.56	-0.48	-19.34
9,400.0	0.83	180.41	9,397.8	-56.7	79.5	-52.1	0.29	0.18	-17.34
9,500.0	0.96	168.47	9,497.8	-58.2	79.7	-53.7	0.23	0.13	-11.94



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Project:	Lea County N.M.	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	MD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Well:	Marathon Road 15 B3OB Federal #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)
9,600.0	0.95	180.35	9,597.7	-59.9	79.8	-55.3	0.20	-0.01	11.88
9,700.0	0.95	170.39	9,697.7	-61.5	80.0	-56.9	0.16	0.00	-9.96
9,800.0	1.19	172.85	9,797.7	-63.4	80.2	-58.8	0.24	0.24	2.46
9,900.0	0.82	185.16	9,897.7	-65.1	80.3	-60.5	0.43	-0.37	12.31
10,000.0	0.82	243.31	9,997.7	-66.2	79.6	-61.6	0.80	0.00	58.15
10,100.0	0.96	241.80	10,097.7	-66.9	78.2	-62.4	0.14	0.14	-1.51
10,200.0	0.98	240.58	10,197.7	-67.7	76.7	-63.3	0.03	0.02	-1.22
10,300.0	1.18	215.55	10,297.7	-69.0	75.4	-64.6	0.51	0.20	-25.03
10,324.0	1.28	213.39	10,321.6	-69.4	75.1	-65.0	0.46	0.42	-9.00
10324' MD MS Gyro Survey									
10,357.0	1.50	268.90	10,354.6	-69.7	74.5	-65.4	3.97	0.67	168.21
10,389.0	1.60	331.10	10,386.6	-69.3	73.8	-65.0	5.01	0.31	194.38
10,421.0	4.30	5.50	10,418.6	-67.7	73.7	-63.5	9.73	8.44	107.50
10,452.0	7.70	14.90	10,449.4	-64.6	74.4	-60.3	11.38	10.97	30.32
10,484.0	11.40	17.20	10,481.0	-59.5	75.9	-55.1	11.62	11.56	7.19
10,516.0	15.10	17.50	10,512.1	-52.5	78.1	-48.0	11.56	11.56	0.94
10,547.0	19.00	18.40	10,541.7	-43.8	80.9	-39.2	12.61	12.58	2.90
10,579.0	22.90	20.70	10,571.6	-33.1	84.7	-28.2	12.45	12.19	7.19
10,611.0	26.60	23.50	10,600.7	-20.7	89.8	-15.6	12.13	11.56	8.75
10,643.0	30.30	26.80	10,628.8	-6.9	96.3	-1.4	12.56	11.56	10.31
10,675.0	33.90	27.90	10,655.9	8.2	104.1	14.1	11.40	11.25	3.44
10,706.0	36.70	26.40	10,681.2	24.2	112.3	30.4	9.45	9.03	-4.84
10,738.0	39.40	24.70	10,706.4	42.0	120.8	48.7	9.05	8.44	-5.31
10,770.0	41.20	24.50	10,730.8	60.8	129.4	68.0	5.64	5.63	-0.63
10,801.0	43.90	24.70	10,753.6	79.8	138.1	87.5	8.72	8.71	0.65
10,833.0	46.10	25.60	10,776.3	100.3	147.7	108.5	7.16	6.88	2.81
10,865.0	50.00	25.70	10,797.7	121.8	158.0	130.5	12.19	12.19	0.31
10,897.0	53.60	26.10	10,817.4	144.4	169.0	153.7	11.29	11.25	1.25
10,928.0	57.90	24.70	10,834.9	167.5	180.0	177.4	14.36	13.87	-4.52
10,960.0	62.40	23.10	10,850.8	192.9	191.2	203.4	14.72	14.06	-5.00
10,992.0	66.00	22.50	10,864.7	219.4	202.4	230.5	11.38	11.25	-1.88
11,024.0	68.90	22.70	10,877.0	246.7	213.7	258.4	9.08	9.06	0.63
11,056.0	71.70	23.30	10,887.8	274.5	225.5	286.7	8.93	8.75	1.88
11,087.0	74.20	23.60	10,896.9	301.6	237.3	314.5	8.12	8.06	0.97
11,119.0	76.10	23.60	10,905.1	330.0	249.7	343.5	5.94	5.94	0.00
11,151.0	77.30	24.10	10,912.4	358.5	262.3	372.7	4.05	3.75	1.56
11,182.0	78.70	24.10	10,918.9	386.1	274.7	401.0	4.52	4.52	0.00
11,214.0	79.70	25.10	10,924.9	414.7	287.7	430.3	4.38	3.13	3.13
11,246.0	80.50	25.30	10,930.4	443.2	301.2	459.5	2.57	2.50	0.63
11,287.5	81.81	24.31	10,936.8	480.5	318.4	497.6	3.95	3.16	-2.39
LP Marathon Road 15 B3OB Fed #1H									
11,347.0	83.70	22.90	10,944.3	534.6	342.0	553.0	3.95	3.17	-2.37
<u>11,378.0</u>	83.30	23.00	10,947.8	<u>562.9</u>	<u>354.0</u>	582.0	1.33	-1.29	0.32
11,410.0	84.20	22.90	10,951.3	592.2	366.4	611.9	2.83	2.81	-0.31



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Project:	Lea County N.M.	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	MD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Well:	Marathon Road 15 B3OB Federal #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)
11,441.0	85.40	22.80	10,954.1	620.7	378.4	641.0	3.88	3.87	-0.32
11,473.0	87.90	22.00	10,955.9	650.2	390.6	671.2	8.20	7.81	-2.50
11,505.0	90.20	21.80	10,956.5	679.9	402.5	701.5	7.21	7.19	-0.63
11,536.0	90.60	20.00	10,956.3	708.8	413.6	731.0	5.95	1.29	-5.81
11,568.0	90.40	17.70	10,956.0	739.1	423.9	761.8	7.21	-0.63	-7.19
11,600.0	90.30	16.40	10,955.8	769.7	433.3	792.9	4.07	-0.31	-4.06
11,631.0	90.00	14.80	10,955.7	799.6	441.6	823.2	5.25	-0.97	-5.16
11,663.0	88.90	13.40	10,956.0	830.6	449.4	854.6	5.56	-3.44	-4.38
11,694.0	88.50	12.90	10,956.7	860.8	456.5	885.1	2.07	-1.29	-1.61
11,757.0	88.70	11.80	10,958.2	922.3	469.9	947.3	1.77	0.32	-1.75
11,789.0	88.60	11.40	10,959.0	953.6	476.4	979.0	1.29	-0.31	-1.25
11,821.0	88.90	9.30	10,959.7	985.1	482.1	1,010.7	6.63	0.94	-6.56
11,852.0	89.80	8.60	10,960.1	1,015.7	486.9	1,041.5	3.68	2.90	-2.26
11,884.0	90.50	7.20	10,960.0	1,047.4	491.3	1,073.4	4.89	2.19	-4.38
11,915.0	90.30	6.10	10,959.8	1,078.2	494.9	1,104.4	3.61	-0.65	-3.55
11,947.0	90.50	4.20	10,959.5	1,110.1	497.8	1,136.4	5.97	0.63	-5.94
11,978.0	91.30	2.70	10,959.0	1,141.0	499.7	1,167.4	5.48	2.58	-4.84
12,010.0	90.40	1.40	10,958.6	1,173.0	500.8	1,199.3	4.94	-2.81	-4.06
12,042.0	89.50	359.30	10,958.6	1,205.0	501.0	1,231.3	7.14	-2.81	-6.56
12,073.0	89.10	357.90	10,959.0	1,236.0	500.2	1,262.2	4.70	-1.29	-4.52
12,104.0	89.30	355.80	10,959.4	1,266.9	498.5	1,293.0	6.80	0.65	-6.77
12,136.0	89.20	354.60	10,959.8	1,298.8	495.9	1,324.7	3.76	-0.31	-3.75
12,167.0	88.80	354.60	10,960.4	1,329.7	492.9	1,355.3	1.29	-1.29	0.00
12,199.0	88.90	352.80	10,961.0	1,361.5	489.4	1,386.9	5.63	0.31	-5.63
12,262.0	90.90	353.20	10,961.1	1,424.0	481.8	1,448.9	3.24	3.17	0.63
12,326.0	91.60	353.00	10,959.7	1,487.5	474.1	1,511.9	1.14	1.09	-0.31
12,389.0	89.70	352.30	10,959.0	1,550.0	466.0	1,573.8	3.21	-3.02	-1.11
12,452.0	89.80	351.90	10,959.3	1,612.4	457.4	1,635.6	0.65	0.16	-0.63
12,515.0	90.90	353.30	10,958.9	1,674.9	449.2	1,697.5	2.83	1.75	2.22
12,579.0	89.60	353.70	10,958.6	1,738.5	442.0	1,760.6	2.13	-2.03	0.63
12,673.0	88.00	355.30	10,960.6	1,832.0	433.0	1,853.5	2.41	-1.70	1.70
12,767.0	89.30	355.30	10,962.8	1,925.6	425.3	1,946.6	1.38	1.38	0.00
12,862.0	92.00	356.80	10,961.7	2,020.4	418.7	2,040.8	3.25	2.84	1.58
12,957.0	91.30	357.40	10,959.0	2,115.2	413.9	2,135.2	0.97	-0.74	0.63
13,052.0	92.90	357.90	10,955.5	2,210.1	410.0	2,229.7	1.76	1.68	0.53
13,147.0	89.70	356.90	10,953.4	2,305.0	405.7	2,324.2	3.53	-3.37	-1.05
13,242.0	89.70	357.00	10,953.8	2,399.8	400.7	2,418.6	0.11	0.00	0.11
13,337.0	92.70	358.00	10,951.9	2,494.7	396.5	2,513.1	3.33	3.16	1.05
13,431.0	89.80	356.80	10,949.8	2,588.6	392.3	2,606.6	3.34	-3.09	-1.28
13,527.0	90.50	357.20	10,949.6	2,684.4	387.3	2,702.0	0.84	0.73	0.42
13,622.0	92.00	357.30	10,947.5	2,779.3	382.7	2,796.4	1.58	1.58	0.11
13,717.0	90.50	357.50	10,945.4	2,874.2	378.4	2,890.9	1.59	-1.58	0.21
13,812.0	88.30	356.40	10,946.4	2,969.0	373.3	2,985.4	2.59	-2.32	-1.16



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Marathon Road 15 B3OB Federal #1H
Project:	Lea County N.M.	TVD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Site:	Section 15-20S- 34 E Marathon Road 15 B3OB	MD Reference:	GL 3649 + 20 @ 3669.0usft (Patterson#45)
Well:	Marathon Road 15 B3OB Federal #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)
13,907.0	89.10	356.90	10,948.6	3,063.8	367.8	3,079.7	0.99	0.84	0.53
14,002.0	89.10	356.20	10,950.1	3,158.7	362.1	3,174.0	0.74	0.00	-0.74
14,097.0	90.90	356.40	10,950.1	3,253.5	355.9	3,268.3	1.91	1.89	0.21
14,192.0	91.80	356.50	10,947.8	3,348.2	350.1	3,362.7	0.95	0.95	0.11
14,287.0	92.10	355.90	10,944.6	3,443.0	343.8	3,456.9	0.71	0.32	-0.63
14,382.0	90.40	355.30	10,942.5	3,537.7	336.5	3,551.0	1.90	-1.79	-0.63
14,477.0	90.20	356.80	10,942.0	3,632.4	329.9	3,645.3	1.59	-0.21	1.58
14,572.0	91.00	357.80	10,941.0	3,727.3	325.5	3,739.8	1.35	0.84	1.05
14,667.0	92.40	357.30	10,938.2	3,822.2	321.4	3,834.2	1.56	1.47	-0.53
14,761.0	90.00	358.20	10,936.2	3,916.1	317.7	3,927.8	2.73	-2.55	0.96
14,857.0	91.10	358.10	10,935.3	4,012.0	314.6	4,023.4	1.15	1.15	-0.10
14,952.0	91.50	359.40	10,933.2	4,107.0	312.5	4,118.1	1.43	0.42	1.37
15,047.0	91.50	0.10	10,930.7	4,202.0	312.1	4,212.9	0.74	0.00	0.74
15,142.0	89.80	359.40	10,929.6	4,297.0	311.7	4,307.7	1.94	-1.79	-0.74
15,237.0	89.80	359.10	10,929.9	4,391.9	310.5	4,402.5	0.32	0.00	-0.32
15,331.0	89.60	357.50	10,930.4	4,485.9	307.7	4,496.1	1.72	-0.21	-1.70
15,426.0	89.80	357.70	10,930.9	4,580.8	303.7	4,590.6	0.30	0.21	0.21
15,521.0	91.50	358.90	10,929.8	4,675.8	300.9	4,685.3	2.19	1.79	1.26
15,578.0	91.70	357.70	10,928.2	4,732.7	299.2	4,742.1	2.13	0.35	-2.11
15,625.0	91.70	357.70	10,926.8	4,779.7	297.3	4,788.8	0.00	0.00	0.00

15625' MD Projected to Bit - PBHL Marathon Road 15 B3OB Fed #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,324.0	10,321.6	-69.4	75.1	10324' MD MS Gyro Survey
15,625.0	10,926.8	4,779.7	297.3	15625' MD Projected to Bit