

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
TORO 36 B3BO STATE 001H
LEA COUNTY

HOBBS OCD RIG # 250

DEC 22 2015

STATE OF NEW MEXICO
DEVIATION REPORT

RECEIVED

500 2.80
882 3.10

STATE OF TEXAS

COUNTY OF MIDLAND

BY: _____

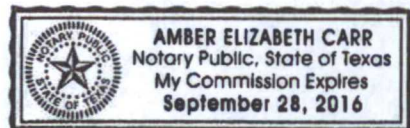
Dora Garcia

The foregoing instrument was acknowledged before me on
Dora Garcia on behalf of Patterson-UTI Drilling Company LLC.

11/6/15

, by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:



JAN 20 2016

cy



COMPANY: Mewbourne Oil Company .
WELL: Toro 36 B3BO st 1H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson Patterson 250



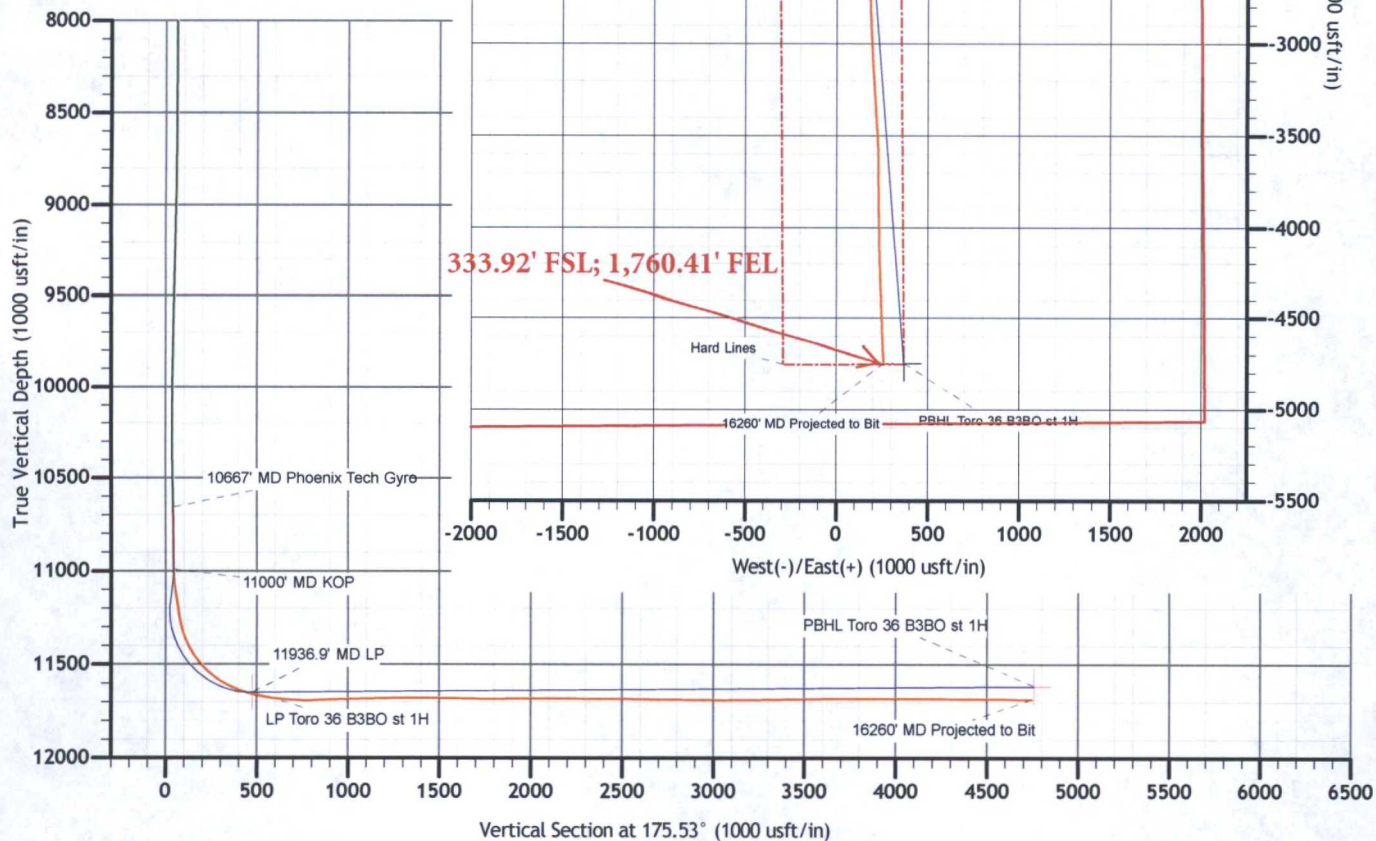
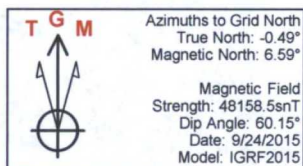
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.59°

OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001 3397 + 27 @ 3424.0usft (Patterson 250) GROUND ELEVATION: 3397.0							Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	462284.70	781959.60	32° 16' 3.516 N	103° 25' 16.060 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	10667.0	5.15	252.13	10658.6	-55.7	-139.4	0.00	0.00	44.7	
2	10924.5	0.00	252.13	10915.7	-59.2	-150.5	2.00	180.00	47.3	
3	11000.0	0.00	252.13	10991.2	-59.2	-150.5	0.00	252.13	47.3	
4	11141.1	17.91	48.77	11130.0	-44.8	-134.0	12.70	48.77	34.2	
5	11936.9	90.44	175.50	11647.0	-479.9	35.6	12.70	125.27	481.2	LP Toro 36 B3BO st 1H
6	16215.7	90.44	175.50	11614.0	-4745.4	371.0	0.00	0.00	4759.9	PBHL Toro 36 B3BO st 1H

SHL 205' FNL; 1980' FEL
Section 36-23S-34E
PBHL 330' FSL; 1650' FEL
Section 36-23S-34E





HOBBS OCD

DEC 22 2015

RECEIVED

Mewbourne Oil Company .

Lea County N.M.

Section 36-23S-34E Toro 36 B3BO St #1H

Toro 36 B3BO St #1H

Original Hole

Design: Original Hole

Standard Survey Report

16 November, 2015





Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Toro 36 B3BO St #1H
Project:	Lea County N.M.	TVD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Site:	Section 36-23S-34E Toro 36 B3BO St #1H	MD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Well:	Toro 36 B3BO St #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 36-23S-34E Toro 36 B3BO St #1H		
Site Position:		Northing:	462,284.70 usft
From:	Map	Easting:	781,959.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 3.516 N
		Longitude:	103° 25' 16.060 W
		Grid Convergence:	0.49 °

Well	Toro 36 B3BO St #1H		
Well Position	+N/-S	0.0 usft	Northing: 462,284.70 usft
	+E/-W	0.0 usft	Easting: 781,959.60 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 16' 3.516 N
		Longitude:	103° 25' 16.060 W
		Ground Level:	3,397.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/24/2015	7.07	60.15	48,158

Design	Original Hole		
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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	175.50

Survey Program	Date 11/16/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	10,667.0	Phoenix Tech GyroSurvey (Original Hole)	NSG-CT_WL
10,735.0	16,260.0	Stryker MWD Survey (Original Hole)	MWD
			Description
			Continuous north-seeking gyro on wireline
			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	0.05	226.08	100.0	0.0	0.0	0.0	0.05	0.05	0.00
200.0	0.48	330.54	200.0	0.3	-0.3	-0.3	0.49	0.43	104.46
300.0	0.38	32.82	300.0	0.9	-0.3	-1.0	0.45	-0.10	62.28
400.0	1.36	20.96	400.0	2.3	0.3	-2.3	0.99	0.98	-11.86
500.0	2.91	43.62	499.9	5.3	2.5	-5.1	1.74	1.55	22.66
600.0	3.53	48.71	599.8	9.1	6.5	-8.6	0.68	0.62	5.09
700.0	3.62	47.01	699.6	13.3	11.2	-12.4	0.14	0.09	-1.70
800.0	3.54	50.05	799.4	17.5	15.8	-16.2	0.21	-0.08	3.04
900.0	3.25	46.76	899.2	21.4	20.3	-19.7	0.35	-0.29	-3.29



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Toro 36 B3BO St #1H
Project:	Lea County N.M.	TVD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Site:	Section 36-23S-34E Toro 36 B3BO St #1H	MD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Well:	Toro 36 B3BO St #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	2.48	67.33	999.1	24.2	24.3	-22.2	1.27	-0.77	20.57
1,100.0	2.04	73.06	1,099.0	25.5	28.0	-23.2	0.49	-0.44	5.73
1,200.0	1.97	56.99	1,198.9	27.0	31.2	-24.4	0.56	-0.07	-16.07
1,300.0	2.08	58.77	1,298.9	28.9	34.2	-26.1	0.13	0.11	1.78
1,400.0	0.45	100.93	1,398.8	29.7	36.1	-26.8	1.77	-1.63	42.16
1,500.0	0.15	35.92	1,498.8	29.8	36.6	-26.8	0.41	-0.30	-65.01
1,600.0	0.31	207.33	1,598.8	29.6	36.5	-26.7	0.46	0.16	171.41
1,700.0	0.34	277.41	1,698.8	29.4	36.1	-26.5	0.37	0.03	70.08
1,800.0	0.12	317.77	1,798.8	29.5	35.7	-26.6	0.26	-0.22	40.36
1,900.0	0.32	132.87	1,898.8	29.4	35.9	-26.5	0.44	0.20	175.10
2,000.0	0.40	151.66	1,998.8	28.9	36.3	-26.0	0.14	0.08	18.79
2,100.0	0.20	64.30	2,098.8	28.7	36.6	-25.7	0.44	-0.20	-87.36
2,200.0	0.33	126.26	2,198.8	28.6	37.0	-25.6	0.29	0.13	61.96
2,300.0	0.69	105.13	2,298.8	28.3	37.8	-25.2	0.40	0.36	-21.13
2,400.0	0.45	96.88	2,398.8	28.1	38.7	-24.9	0.25	-0.24	-8.25
2,500.0	0.95	104.94	2,498.8	27.8	39.9	-24.6	0.51	0.50	8.06
2,600.0	1.20	92.59	2,598.8	27.5	41.8	-24.2	0.34	0.25	-12.35
2,700.0	1.19	88.52	2,698.8	27.5	43.9	-24.0	0.09	-0.01	-4.07
2,800.0	1.53	82.31	2,798.7	27.7	46.2	-24.0	0.37	0.34	-6.21
2,900.0	2.10	90.10	2,898.7	27.9	49.4	-23.9	0.62	0.57	7.79
3,000.0	2.08	87.40	2,998.6	28.0	53.0	-23.7	0.10	-0.02	-2.70
3,100.0	2.00	173.68	3,098.6	26.3	55.0	-21.9	2.79	-0.08	86.28
3,200.0	2.10	212.12	3,198.5	23.0	54.3	-18.7	1.35	0.10	38.44
3,300.0	1.63	267.93	3,298.5	21.4	51.9	-17.3	1.79	-0.47	55.81
3,400.0	1.86	308.31	3,398.4	22.4	49.2	-18.5	1.22	0.23	40.38
3,500.0	1.51	295.95	3,498.4	24.0	46.7	-20.2	0.50	-0.35	-12.36
3,600.0	1.54	303.72	3,598.4	25.3	44.4	-21.7	0.21	0.03	7.77
3,700.0	1.01	287.25	3,698.3	26.3	42.4	-22.9	0.64	-0.53	-16.47
3,800.0	0.61	252.33	3,798.3	26.4	41.1	-23.1	0.62	-0.40	-34.92
3,900.0	0.42	42.34	3,898.3	26.5	40.8	-23.2	1.00	-0.19	150.01
4,000.0	1.63	35.89	3,998.3	27.9	41.9	-24.6	1.21	1.21	-6.45
4,100.0	2.11	43.41	4,098.3	30.4	44.0	-26.9	0.54	0.48	7.52
4,200.0	1.05	73.50	4,198.2	32.0	46.2	-28.3	1.31	-1.06	30.09
4,300.0	1.15	157.10	4,298.2	31.4	47.4	-27.5	1.47	0.10	83.60
4,400.0	1.33	189.62	4,398.2	29.3	47.6	-25.5	0.72	0.18	32.52
4,500.0	0.80	217.58	4,498.2	27.6	47.0	-23.8	0.73	-0.53	27.96
4,600.0	0.66	18.77	4,598.2	27.6	46.8	-23.8	1.44	-0.14	161.19
4,700.0	0.62	41.76	4,698.2	28.5	47.3	-24.7	0.26	-0.04	22.99
4,800.0	2.09	91.93	4,798.1	28.9	49.5	-24.9	1.76	1.47	50.17
4,900.0	2.74	87.50	4,898.0	28.9	53.7	-24.6	0.68	0.65	-4.43
5,000.0	1.81	161.77	4,998.0	27.5	56.6	-23.0	2.84	-0.93	74.27
5,100.0	3.65	211.83	5,097.9	23.3	55.4	-18.9	2.85	1.84	50.06
5,200.0	4.84	218.42	5,197.6	17.3	51.1	-13.2	1.28	1.19	6.59



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Toro 36 B3BO St #1H
Project:	Lea County N.M.	TVD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Site:	Section 36-23S-34E Toro 36 B3BO St #1H	MD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Well:	Toro 36 B3BO St #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	4.82	218.12	5,297.2	10.7	45.9	-7.1	0.03	-0.02	-0.30	
5,400.0	4.50	217.16	5,396.9	4.3	40.9	-1.0	0.33	-0.32	-0.96	
5,500.0	4.77	219.15	5,496.6	-2.1	35.9	4.9	0.31	0.27	1.99	
5,600.0	4.78	217.08	5,596.2	-8.6	30.8	11.0	0.17	0.01	-2.07	
5,700.0	4.47	215.08	5,695.9	-15.1	26.0	17.1	0.35	-0.31	-2.00	
5,800.0	4.03	211.47	5,795.6	-21.3	22.0	23.0	0.51	-0.44	-3.61	
5,900.0	3.40	206.97	5,895.4	-27.0	18.8	28.4	0.69	-0.63	-4.50	
6,000.0	3.01	229.62	5,995.3	-31.3	15.4	32.4	1.31	-0.39	22.65	
6,100.0	2.33	220.10	6,095.2	-34.6	12.1	35.4	0.81	-0.68	-9.52	
6,200.0	2.53	228.14	6,195.1	-37.6	9.2	38.2	0.39	0.20	8.04	
6,300.0	2.48	221.35	6,295.0	-40.7	6.1	41.0	0.30	-0.05	-6.79	
6,400.0	2.00	228.80	6,394.9	-43.5	3.4	43.6	0.56	-0.48	7.45	
6,500.0	2.10	239.49	6,494.8	-45.5	0.5	45.4	0.39	0.10	10.69	
6,600.0	2.45	243.79	6,594.8	-47.4	-3.0	47.0	0.39	0.35	4.30	
6,700.0	2.18	227.58	6,694.7	-49.6	-6.3	49.0	0.71	-0.27	-16.21	
6,800.0	2.27	225.72	6,794.6	-52.3	-9.2	51.4	0.12	0.09	-1.86	
6,900.0	2.32	233.00	6,894.5	-54.9	-12.2	53.8	0.30	0.05	7.28	
7,000.0	2.23	235.74	6,994.4	-57.2	-15.4	55.8	0.14	-0.09	2.74	
7,100.0	1.81	237.54	7,094.4	-59.2	-18.4	57.5	0.42	-0.42	1.80	
7,200.0	1.97	251.04	7,194.3	-60.6	-21.3	58.7	0.47	0.16	13.50	
7,300.0	1.75	256.36	7,294.3	-61.5	-24.4	59.4	0.28	-0.22	5.32	
7,400.0	1.79	255.22	7,394.2	-62.3	-27.4	59.9	0.05	0.04	-1.14	
7,500.0	2.04	245.96	7,494.2	-63.4	-30.6	60.8	0.40	0.25	-9.26	
7,600.0	1.92	249.29	7,594.1	-64.7	-33.8	61.8	0.17	-0.12	3.33	
7,700.0	1.56	242.75	7,694.1	-65.9	-36.5	62.8	0.41	-0.36	-6.54	
7,800.0	1.30	252.10	7,794.0	-66.9	-38.8	63.6	0.35	-0.26	9.35	
7,900.0	1.37	262.17	7,894.0	-67.4	-41.1	64.0	0.24	0.07	10.07	
8,000.0	1.38	257.36	7,994.0	-67.8	-43.4	64.2	0.12	0.01	-4.81	
8,100.0	1.35	268.51	8,093.9	-68.1	-45.8	64.3	0.27	-0.03	11.15	
8,200.0	1.21	269.28	8,193.9	-68.2	-48.0	64.2	0.14	-0.14	0.77	
8,300.0	1.05	269.36	8,293.9	-68.2	-50.0	64.0	0.16	-0.16	0.08	
8,400.0	0.96	269.50	8,393.9	-68.2	-51.8	63.9	0.09	-0.09	0.14	
8,500.0	0.68	299.26	8,493.9	-67.9	-53.1	63.5	0.50	-0.28	29.76	
8,600.0	0.67	312.55	8,593.9	-67.2	-54.1	62.8	0.16	-0.01	13.29	
8,700.0	0.78	209.84	8,693.9	-67.4	-54.8	62.9	1.13	0.11	-102.71	
8,800.0	1.09	316.44	8,793.9	-67.3	-55.8	62.7	1.51	0.31	106.60	
8,900.0	1.61	295.08	8,893.8	-66.0	-57.8	61.3	0.72	0.52	-21.36	
9,000.0	1.65	292.66	8,993.8	-64.9	-60.4	60.0	0.08	0.04	-2.42	
9,100.0	1.76	296.26	9,093.7	-63.7	-63.1	58.5	0.15	0.11	3.60	
9,200.0	1.99	304.55	9,193.7	-62.0	-65.9	56.6	0.36	0.23	8.29	
9,300.0	2.58	301.45	9,293.6	-59.8	-69.2	54.2	0.60	0.59	-3.10	
9,400.0	3.01	293.87	9,393.5	-57.6	-73.5	51.7	0.57	0.43	-7.58	
9,500.0	3.31	289.29	9,493.3	-55.6	-78.7	49.2	0.39	0.30	-4.58	

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Well:	Toro 36 B3BO St #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	3.89	285.11	9,593.1	-53.7	-84.7	46.9	0.64	0.58	-4.18
9,700.0	3.75	285.96	9,692.9	-52.0	-91.1	44.7	0.15	-0.14	0.85
9,800.0	3.47	273.82	9,792.7	-50.9	-97.2	43.1	0.81	-0.28	-12.14
9,900.0	3.24	273.98	9,892.6	-50.5	-103.1	42.2	0.23	-0.23	0.16
10,000.0	3.01	278.44	9,992.4	-49.9	-108.5	41.2	0.33	-0.23	4.46
10,100.0	2.60	289.11	10,092.3	-48.8	-113.2	39.7	0.66	-0.41	10.67
10,200.0	2.36	272.34	10,192.2	-47.9	-117.4	38.6	0.76	-0.24	-16.77
10,300.0	1.76	249.35	10,292.1	-48.4	-120.9	38.7	1.01	-0.60	-22.99
10,400.0	2.78	243.81	10,392.1	-50.0	-124.6	40.1	1.04	1.02	-5.54
10,500.0	2.82	255.02	10,491.9	-51.7	-129.1	41.4	0.55	0.04	11.21
10,600.0	3.88	244.52	10,591.8	-53.8	-134.5	43.1	1.22	1.06	-10.50
10,667.0	5.15	252.13	10,658.6	-55.7	-139.4	44.6	2.09	1.90	11.36
10667' MD Phoenix Tech Gyro									
10,735.0	6.00	258.20	10,726.2	-57.4	-145.8	45.7	1.52	1.25	8.93
10,760.0	6.20	263.30	10,751.1	-57.8	-148.4	46.0	2.31	0.80	20.40
10,854.0	4.40	284.70	10,844.7	-57.5	-157.0	45.0	2.81	-1.91	22.77
10,948.0	2.10	217.70	10,938.6	-57.9	-161.5	45.1	4.33	-2.45	-71.28
10,980.0	2.10	222.60	10,970.5	-58.8	-162.3	45.9	0.56	0.00	15.31
11,012.0	2.50	176.00	11,002.5	-59.9	-162.6	47.0	5.80	1.25	-145.63
11,043.0	5.60	142.30	11,033.4	-61.8	-161.7	48.9	12.20	10.00	-108.71
11,075.0	9.60	132.30	11,065.2	-64.8	-158.7	52.2	13.12	12.50	-31.25
11,107.0	12.40	126.90	11,096.6	-68.7	-154.0	56.4	9.31	8.75	-16.88
11,138.0	14.90	125.20	11,126.7	-73.0	-148.1	61.1	8.17	8.06	-5.48
11,169.0	17.20	119.60	11,156.5	-77.6	-140.8	66.3	8.94	7.42	-18.06
11,201.0	18.80	111.20	11,186.9	-81.8	-131.9	71.2	9.52	5.00	-26.25
11,233.0	20.40	111.30	11,217.1	-85.6	-121.9	75.8	5.00	5.00	0.31
11,264.0	21.50	113.80	11,246.0	-89.9	-111.7	80.9	4.57	3.55	8.06
11,296.0	23.40	116.00	11,275.6	-95.1	-100.6	86.9	6.49	5.94	6.88
11,327.0	26.30	119.60	11,303.7	-101.1	-89.1	93.8	10.55	9.35	11.61
11,359.0	30.10	122.30	11,331.9	-108.9	-76.1	102.6	12.52	11.88	8.44
11,390.0	33.50	123.60	11,358.3	-117.8	-62.4	112.6	11.19	10.97	4.19
11,421.0	35.90	125.60	11,383.7	-127.9	-47.9	123.7	8.57	7.74	6.45
11,452.0	37.20	131.20	11,408.6	-139.3	-33.5	136.3	11.54	4.19	18.06
11,484.0	40.90	132.90	11,433.5	-152.8	-18.5	150.9	12.04	11.56	5.31
11,515.0	44.10	132.40	11,456.3	-167.0	-3.1	166.3	10.38	10.32	-1.61
11,547.0	47.10	134.50	11,478.7	-182.7	13.5	183.2	10.48	9.38	6.56
11,578.0	50.70	137.60	11,499.1	-199.6	29.7	201.3	13.84	11.61	10.00
11,610.0	52.00	138.60	11,519.1	-218.2	46.4	221.1	4.74	4.06	3.13
11,641.0	54.70	138.30	11,537.6	-236.8	62.9	241.0	8.74	8.71	-0.97
11,673.0	57.80	138.80	11,555.4	-256.7	80.5	262.2	9.77	9.69	1.56
11,704.0	61.40	139.40	11,571.1	-276.9	98.0	283.8	11.73	11.61	1.94
11,736.0	64.10	141.10	11,585.7	-298.8	116.1	307.0	9.67	8.44	5.31
11,768.0	66.40	141.60	11,599.1	-321.5	134.3	331.0	7.33	7.19	1.56
11,799.0	66.50	143.60	11,611.5	-344.1	151.6	354.9	5.92	0.32	6.45



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Toro 36 B3BO St #1H
Project:	Lea County N.M.	TVD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Site:	Section 36-23S-34E Toro 36 B3BO St #1H	MD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Well:	Toro 36 B3BO St #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)
11,822.0	69.10	145.10	11,620.2	-361.4	164.0	373.1	12.82	11.30	6.52
11,857.2	71.42	146.40	11,632.1	-388.7	182.6	401.9	7.47	6.61	3.69
LP Toro 36 B3BO st 1H									
11,902.0	74.40	148.00	11,645.2	-424.8	205.8	439.6	7.47	6.64	3.58
11,933.0	77.10	149.00	11,652.9	-450.4	221.5	466.4	9.25	8.71	3.23
11,965.0	78.80	150.20	11,659.5	-477.4	237.3	494.5	6.46	5.31	3.75
11,996.0	80.40	152.40	11,665.1	-504.1	252.0	522.3	8.68	5.16	7.10
12,028.0	81.40	155.50	11,670.2	-532.5	265.8	551.7	10.06	3.13	9.69
12,059.0	81.80	158.40	11,674.7	-560.7	277.8	580.8	9.34	1.29	9.35
12,091.0	82.50	160.80	11,679.1	-590.4	288.9	611.3	7.74	2.19	7.50
12,123.0	83.80	161.80	11,682.9	-620.5	299.1	642.1	5.11	4.06	3.13
12,154.0	85.70	163.40	11,685.8	-650.0	308.3	672.1	8.00	6.13	5.16
12,186.0	87.80	165.70	11,687.6	-680.8	316.8	703.5	9.72	6.56	7.19
12,217.0	88.70	168.40	11,688.5	-710.9	323.8	734.2	9.18	2.90	8.71
12,249.0	89.10	170.30	11,689.1	-742.4	329.7	766.0	6.07	1.25	5.94
12,280.0	90.60	171.90	11,689.2	-773.0	334.5	796.9	7.07	4.84	5.16
12,312.0	91.10	175.20	11,688.7	-804.8	338.1	828.8	10.43	1.56	10.31
12,344.0	91.90	178.40	11,687.9	-836.7	339.8	860.8	10.30	2.50	10.00
12,407.0	91.60	182.40	11,686.0	-899.7	339.4	923.5	6.36	-0.48	6.35
12,501.0	91.50	181.90	11,683.4	-993.6	335.9	1,016.9	0.54	-0.11	-0.53
12,596.0	92.00	184.40	11,680.5	-1,088.4	330.7	1,111.0	2.68	0.53	2.63
12,690.0	91.40	187.60	11,677.7	-1,181.8	320.8	1,203.4	3.46	-0.64	3.40
12,785.0	90.20	189.90	11,676.4	-1,275.7	306.4	1,295.8	2.73	-1.26	2.42
12,879.0	89.80	188.20	11,676.4	-1,368.5	291.6	1,387.2	1.86	-0.43	-1.81
12,974.0	89.20	187.90	11,677.3	-1,462.6	278.3	1,479.9	0.71	-0.63	-0.32
13,069.0	88.90	187.60	11,678.8	-1,556.7	265.5	1,572.7	0.45	-0.32	-0.32
13,164.0	88.50	187.30	11,681.0	-1,650.9	253.2	1,665.7	0.53	-0.42	-0.32
13,258.0	90.60	185.70	11,681.7	-1,744.3	242.5	1,757.9	2.81	2.23	-1.70
13,353.0	90.90	185.10	11,680.5	-1,838.8	233.6	1,851.5	0.71	0.32	-0.63
13,447.0	89.90	185.10	11,679.8	-1,932.5	225.2	1,944.2	1.06	-1.06	0.00
13,542.0	89.90	184.70	11,680.0	-2,027.1	217.1	2,037.9	0.42	0.00	-0.42
13,637.0	89.80	184.10	11,680.2	-2,121.8	209.8	2,131.8	0.64	-0.11	-0.63
13,731.0	89.60	184.00	11,680.7	-2,215.6	203.2	2,224.7	0.24	-0.21	-0.11
13,826.0	89.60	183.80	11,681.4	-2,310.4	196.7	2,318.7	0.21	0.00	-0.21
13,921.0	89.60	183.70	11,682.1	-2,405.2	190.5	2,412.7	0.11	0.00	-0.11
14,016.0	89.70	181.60	11,682.6	-2,500.1	186.1	2,507.0	2.21	0.11	-2.21
14,110.0	89.60	180.90	11,683.2	-2,594.0	184.1	2,600.5	0.75	-0.11	-0.74
14,205.0	89.10	179.40	11,684.3	-2,689.0	183.8	2,695.2	1.66	-0.53	-1.58
14,300.0	89.00	178.50	11,685.9	-2,784.0	185.6	2,790.0	0.95	-0.11	-0.95
14,394.0	89.20	177.80	11,687.3	-2,877.9	188.6	2,883.9	0.77	0.21	-0.74
14,489.0	89.80	177.10	11,688.2	-2,972.8	192.8	2,978.8	0.97	0.63	-0.74
14,584.0	90.20	176.60	11,688.2	-3,067.7	198.1	3,073.8	0.67	0.42	-0.53
14,679.0	90.80	176.50	11,687.3	-3,162.5	203.8	3,168.8	0.64	0.63	-0.11



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Toro 36 B3BO St #1H
Project:	Lea County N.M.	TVD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Site:	Section 36-23S-34E Toro 36 B3BO St #1H	MD Reference:	3397 + 27 @ 3424.0usft (Patterson 250)
Well:	Toro 36 B3BO St #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)
14,773.0	90.90	176.60	11,685.9	-3,256.3	209.4	3,262.7	0.15	0.11	0.11
14,868.0	90.80	176.40	11,684.5	-3,351.1	215.2	3,357.7	0.24	-0.11	-0.21
14,963.0	90.80	176.00	11,683.2	-3,445.9	221.5	3,452.7	0.42	0.00	-0.42
15,058.0	91.30	177.20	11,681.5	-3,540.7	227.2	3,547.7	1.37	0.53	1.26
15,152.0	90.50	179.60	11,680.0	-3,634.7	229.8	3,641.5	2.69	-0.85	2.55
15,247.0	90.20	179.60	11,679.4	-3,729.7	230.5	3,736.3	0.32	-0.32	0.00
15,342.0	89.80	179.70	11,679.4	-3,824.7	231.0	3,831.0	0.43	-0.42	0.11
15,437.0	89.80	179.30	11,679.7	-3,919.7	231.9	3,925.8	0.42	0.00	-0.42
15,531.0	90.00	178.90	11,679.9	-4,013.7	233.3	4,019.6	0.48	0.21	-0.43
15,626.0	90.00	178.50	11,679.9	-4,108.6	235.5	4,114.5	0.42	0.00	-0.42
15,720.0	90.00	178.00	11,679.9	-4,202.6	238.4	4,208.3	0.53	0.00	-0.53
15,815.0	89.60	178.10	11,680.2	-4,297.5	241.6	4,303.2	0.43	-0.42	0.11
15,910.0	89.80	178.00	11,680.7	-4,392.5	244.8	4,398.2	0.24	0.21	-0.11
16,004.0	89.40	177.70	11,681.4	-4,486.4	248.4	4,492.1	0.53	-0.43	-0.32
16,098.0	89.10	177.70	11,682.6	-4,580.3	252.1	4,586.0	0.32	-0.32	0.00
16,194.0	89.10	176.80	11,684.1	-4,676.2	256.7	4,681.9	0.94	0.00	-0.94
16,213.0	89.00	176.60	11,684.4	-4,695.2	257.8	4,700.9	1.18	-0.53	-1.05
16,260.0	89.00	176.60	11,685.3	-4,742.1	260.6	4,747.9	0.00	0.00	0.00

16260' MD Projected to Bit - PBHL Toro 36 B3BO st 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,667.0	10,658.6	-55.7	-139.4	10667' MD Phoenix Tech Gyro
16,260.0	11,685.3	-4,742.1	260.6	16260' MD Projected to Bit