

NOV 30 2017

RECEIVED



COMPANY: Mewbourne Oil Company
 WELL: Toro 36 B3CN St 1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson Patterson #220

Grid Correction MWD: To convert a Magnetic Direction to a Grid Direction, Add 6.38°



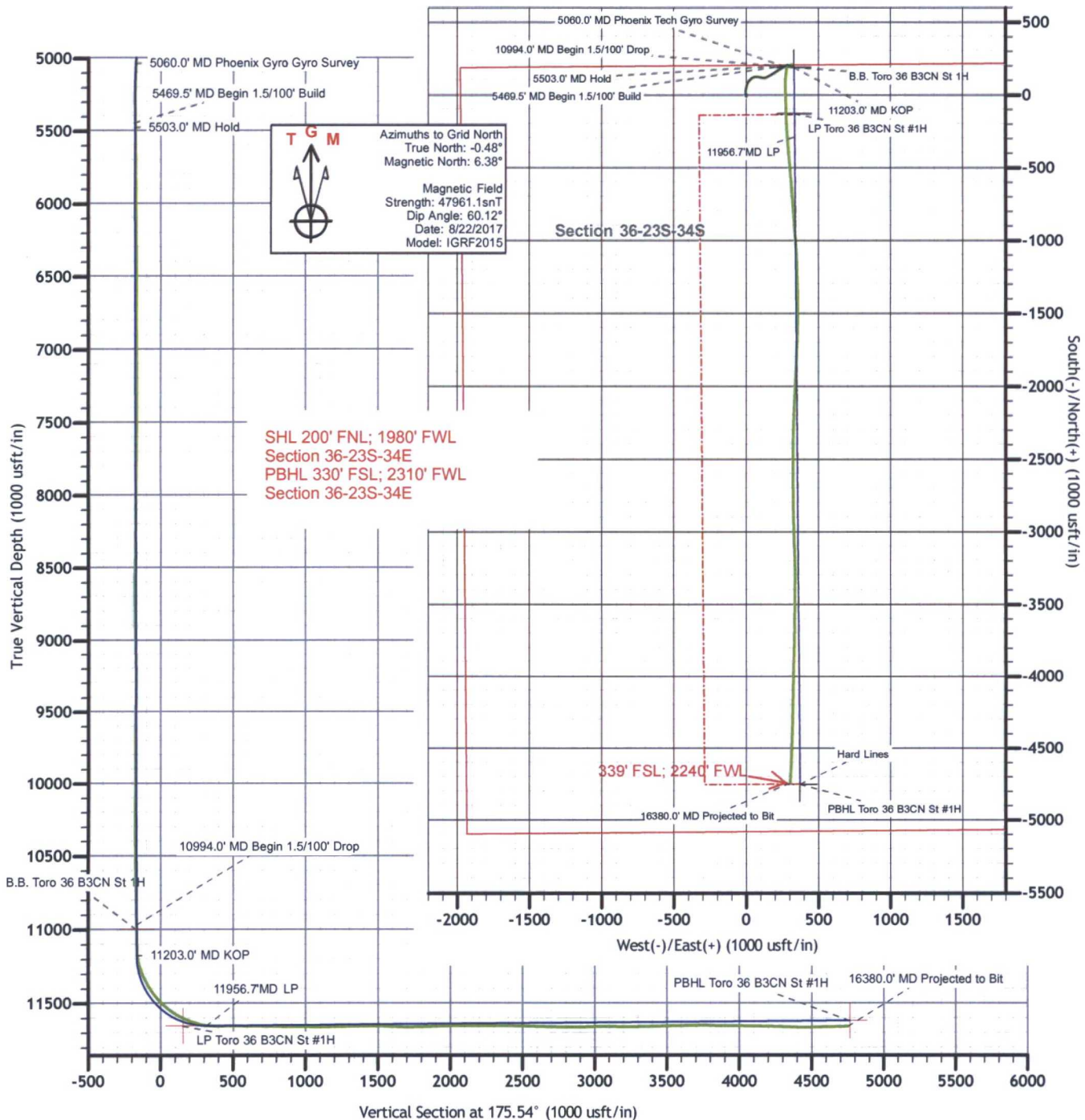
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001
 3396 + 27 @ 3423.0usft (Patterson #220)
 GROUND ELEVATION: 3396.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	462279.00	780640.40	32° 16' 3.570 N	103° 25' 31.423 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	5060.0	6.19	59.97	5033.4	195.9	267.3	0.00	0.00	-174.6	
2	5369.5	0.00	0.00	5342.3	204.3	281.7	2.00	180.00	-181.8	
3	5469.5	0.00	0.00	5442.3	204.3	281.7	0.00	0.00	-181.8	
4	5503.0	0.50	103.83	5475.7	204.3	281.9	1.50	103.83	-181.7	
5	10994.0	0.50	103.83	10966.5	192.8	328.6	0.00	0.00	-166.6	
6	11027.4	0.00	0.00	11000.0	192.7	328.7	1.50	180.00	-166.6	
7	11203.0	0.00	0.00	11175.6	192.7	328.7	0.00	0.00	-166.6	B.B. Toro 36 B3CN St 1H
8	11956.7	90.45	179.52	11653.0	-288.5	332.8	12.00	179.52	313.5	
9	16418.9	90.45	179.52	11618.0	-4750.3	370.3	0.00	0.00	4764.8	PBHL Toro 36 B3CN St #1H





HOBBS OCD

NOV 30 2017

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Mewbourne Oil Company

Lea County N.M.

Section 36-23S-34S Toro 36 B3CN St 1H

Toro 36 B3CN St 1H

Original Hole

Design: Original Hole

Standard Survey Report

22 September, 2017



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Toro 36 B3CN St 1H
Project:	Lea County N.M.	TVD Reference:	3396 + 27 @ 3423.0usft (Patterson #220)
Site:	Section 36-23S-34S Toro 36 B3CN St 1H	MD Reference:	3396 + 27 @ 3423.0usft (Patterson #220)
Well:	Toro 36 B3CN 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-34S Toro 36 B3CN St 1H		
Site Position:		Northing:	462,279.00 usft
From:	Map	Easting:	780,640.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 3.570 N
		Longitude:	103° 25' 31.423 W
		Grid Convergence:	0.48 °

Well	Toro 36 B3CN St 1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 3.570 N
		Longitude:	103° 25' 31.423 W
		Ground Level:	3,396.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	8/22/2017	6.87
		Dip Angle (°)	60.12
		Field Strength (nT)	47,961.06962310

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)
	0.0	0.0	0.0
		Direction (°)	188.80

Survey Program	Date 9/22/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
86.0	933.0	Rig Survey (Original Hole)	MWD
5,113.0	16,380.0	MWD Survey (Original Hole)	NSG-CT_WL
			Description
			MWD v3:standard declination
			Continuous north-seeking gyro on wireline

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
	86.0	0.00	112.00	86.0	0.0	0.0	0.0	0.00	0.00	0.00
	176.0	0.40	161.00	176.0	-0.3	0.1	0.3	0.44	0.44	0.00
	267.0	0.70	193.00	267.0	-1.1	0.1	1.1	0.46	0.33	35.16
	358.0	0.70	210.00	358.0	-2.2	-0.3	2.2	0.23	0.00	18.68
	447.0	0.70	180.00	447.0	-3.2	-0.6	3.2	0.41	0.00	-33.71
	543.0	1.20	200.00	543.0	-4.7	-0.9	4.8	0.62	0.52	20.83
	602.0	1.10	187.00	602.0	-5.9	-1.2	6.0	0.47	-0.17	-22.03
	661.0	1.30	186.00	660.9	-7.1	-1.4	7.2	0.34	0.34	-1.69
	722.0	1.40	185.00	721.9	-8.5	-1.5	8.6	0.17	0.16	-1.64

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Toro 36 B3CN St 1H
Project:	Lea County N.M.	TVD Reference:	3396 + 27 @ 3423.0usft (Patterson #220)
Site:	Section 36-23S-34S Toro 36 B3CN St 1H	MD Reference:	3396 + 27 @ 3423.0usft (Patterson #220)
Well:	Toro 36 B3CN 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)
783.0	1.30	199.00	782.9	-9.9	-1.8	10.1	0.56	-0.16	22.95
843.0	1.20	180.00	842.9	-11.2	-2.0	11.4	0.71	-0.17	-31.67
891.0	1.60	179.00	890.9	-12.3	-2.0	12.5	0.83	0.83	-2.08
933.0	1.20	191.00	932.9	-13.4	-2.1	13.5	1.18	-0.95	28.57
933' MD Rig Survey									
5,113.0	5.10	57.50	5,107.9	43.5	146.4	-65.4	0.14	0.09	-3.19
5,207.0	3.30	68.80	5,201.7	46.8	152.5	-69.5	2.10	-1.91	12.02
5,303.0	2.00	100.40	5,297.6	47.5	156.7	-70.9	1.99	-1.35	32.92
5,397.0	1.90	93.70	5,391.5	47.1	159.8	-71.0	0.26	-0.11	-7.13
5,492.0	2.10	101.20	5,486.5	46.6	163.1	-71.0	0.35	0.21	7.89
5,586.0	2.10	101.10	5,580.4	46.0	166.5	-70.9	0.00	0.00	-0.11
5,680.0	1.90	99.70	5,674.4	45.4	169.7	-70.8	0.22	-0.21	-1.49
5,775.0	1.00	110.40	5,769.3	44.8	172.1	-70.6	0.99	-0.95	11.26
5,869.0	0.90	128.00	5,863.3	44.1	173.4	-70.1	0.33	-0.11	18.72
5,964.0	0.80	127.50	5,958.3	43.2	174.5	-69.4	0.11	-0.11	-0.53
6,059.0	0.60	147.70	6,053.3	42.4	175.3	-68.7	0.33	-0.21	21.26
6,153.0	0.30	147.10	6,147.3	41.8	175.7	-68.1	0.32	-0.32	-0.64
6,247.0	0.50	122.80	6,241.3	41.3	176.2	-67.8	0.27	0.21	-25.85
6,341.0	0.60	121.60	6,335.3	40.9	177.0	-67.4	0.11	0.11	-1.28
6,435.0	0.40	157.80	6,429.3	40.3	177.5	-67.0	0.39	-0.21	38.51
6,530.0	0.50	136.70	6,524.3	39.7	177.9	-66.4	0.20	0.11	-22.21
6,624.0	0.40	104.70	6,618.3	39.3	178.5	-66.1	0.28	-0.11	-34.04
6,719.0	0.50	127.50	6,713.3	39.0	179.2	-65.9	0.21	0.11	24.00
6,813.0	0.20	120.70	6,807.3	38.6	179.6	-65.6	0.32	-0.32	-7.23
6,908.0	0.40	145.60	6,902.3	38.3	180.0	-65.3	0.25	0.21	26.21
7,003.0	0.40	142.20	6,997.3	37.7	180.3	-64.9	0.02	0.00	-3.58
7,098.0	0.40	104.70	7,092.3	37.4	180.9	-64.6	0.27	0.00	-39.47
7,192.0	0.40	133.20	7,186.3	37.1	181.4	-64.4	0.21	0.00	30.32
7,286.0	0.40	131.40	7,280.3	36.6	181.9	-64.0	0.01	0.00	-1.91
7,381.0	0.20	60.10	7,375.3	36.5	182.3	-64.0	0.41	-0.21	-75.05
7,475.0	0.10	88.70	7,469.3	36.6	182.5	-64.1	0.13	-0.11	30.43
7,570.0	0.20	6.90	7,564.3	36.8	182.6	-64.2	0.22	0.11	-86.11
7,664.0	0.60	333.20	7,658.3	37.4	182.4	-64.8	0.48	0.43	-35.85
7,758.0	0.90	350.60	7,752.2	38.5	182.1	-65.9	0.40	0.32	18.51
7,853.0	1.00	8.90	7,847.2	40.1	182.1	-67.5	0.33	0.11	19.26
7,947.0	1.00	359.00	7,941.2	41.7	182.2	-69.1	0.18	0.00	-10.53
8,041.0	1.00	2.10	8,035.2	43.4	182.2	-70.7	0.06	0.00	3.30
8,136.0	1.00	18.10	8,130.2	45.0	182.5	-72.3	0.29	0.00	16.84
8,231.0	0.90	33.60	8,225.2	46.4	183.2	-73.8	0.29	-0.11	16.32
8,325.0	0.70	5.50	8,319.2	47.6	183.6	-75.1	0.46	-0.21	-29.89
8,420.0	0.50	33.60	8,414.2	48.5	183.9	-76.0	0.37	-0.21	29.58
8,514.0	0.70	18.60	8,508.2	49.4	184.3	-77.0	0.27	0.21	-15.96
8,609.0	0.60	70.50	8,603.2	50.1	185.0	-77.8	0.61	-0.11	54.63

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Well:	Toro 36 B3CN 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)
8,703.0	0.70	89.90	8,697.1	50.3	186.0	-78.1	0.26	0.11	20.64
8,797.0	0.40	148.40	8,791.1	50.0	186.8	-77.9	0.64	-0.32	62.23
8,891.0	0.50	164.80	8,885.1	49.3	187.1	-77.3	0.17	0.11	17.45
8,985.0	0.80	184.40	8,979.1	48.2	187.1	-76.3	0.39	0.32	20.85
9,080.0	1.40	179.70	9,074.1	46.4	187.1	-74.5	0.64	0.63	-4.95
9,174.0	1.10	201.10	9,168.1	44.4	186.7	-72.5	0.58	-0.32	22.77
9,269.0	1.10	250.50	9,263.1	43.3	185.6	-71.1	0.97	0.00	52.00
9,363.0	1.40	268.50	9,357.1	43.0	183.6	-70.5	0.52	0.32	19.15
9,457.0	1.90	276.40	9,451.0	43.1	180.9	-70.2	0.58	0.53	8.40
9,551.0	1.50	287.30	9,545.0	43.6	178.1	-70.4	0.55	-0.43	11.60
9,646.0	1.50	276.80	9,639.9	44.2	175.7	-70.5	0.29	0.00	-11.05
9,740.0	2.00	269.60	9,733.9	44.3	172.9	-70.2	0.58	0.53	-7.66
9,834.0	0.50	223.60	9,827.9	44.0	170.9	-69.6	1.80	-1.60	-48.94
9,928.0	0.30	283.90	9,921.9	43.7	170.4	-69.3	0.47	-0.21	64.15
10,023.0	0.90	282.20	10,016.9	44.0	169.4	-69.3	0.63	0.63	-1.79
10,117.0	1.60	287.50	10,110.8	44.5	167.5	-69.6	0.75	0.74	5.64
10,211.0	1.70	289.80	10,204.8	45.4	164.9	-70.1	0.13	0.11	2.45
10,305.0	2.00	285.30	10,298.8	46.3	162.0	-70.5	0.35	0.32	-4.79
10,400.0	1.10	138.10	10,393.7	46.0	161.0	-70.1	3.14	-0.95	-154.95
10,494.0	1.10	127.30	10,487.7	44.8	162.3	-69.1	0.22	0.00	-11.49
10,589.0	0.70	175.10	10,582.7	43.7	163.1	-68.1	0.86	-0.42	50.32
10,683.0	0.70	215.70	10,676.7	42.7	162.8	-67.0	0.52	0.00	43.19
10,778.0	1.40	223.80	10,771.7	41.3	161.7	-65.6	0.75	0.74	8.53
10,872.0	1.80	227.60	10,865.7	39.5	159.8	-63.5	0.44	0.43	4.04
10,967.0	2.50	229.90	10,960.6	37.2	157.1	-60.8	0.74	0.74	2.42
10,998.6	2.14	234.97	10,992.1	36.4	156.1	-59.8	1.32	-1.15	16.06
B.B. Toro 36 B3CN St 1H									
11,061.0	1.50	251.90	11,054.5	35.5	154.4	-58.7	1.32	-1.02	27.12
11,098.0	1.40	257.90	11,091.5	35.2	153.5	-58.3	0.49	-0.27	16.22
11,155.0	2.10	211.30	11,148.5	34.2	152.3	-57.1	2.68	1.23	-81.75
11,187.0	5.90	197.50	11,180.4	32.1	151.5	-54.9	12.17	11.88	-43.13
11,218.0	9.20	187.70	11,211.1	28.1	150.6	-50.8	11.39	10.65	-31.61
11,250.0	13.00	183.00	11,242.5	22.0	150.1	-44.7	12.20	11.88	-14.69
11,281.0	16.70	183.50	11,272.5	14.1	149.7	-36.8	11.94	11.94	1.61
11,312.0	20.00	185.40	11,301.9	4.4	148.9	-27.1	10.82	10.65	6.13
11,344.0	23.70	186.60	11,331.6	-7.5	147.6	-15.2	11.65	11.56	3.75
11,376.0	27.10	186.80	11,360.5	-21.1	146.0	-1.5	10.63	10.63	0.63
11,407.0	29.70	185.90	11,387.8	-35.8	144.4	13.3	8.50	8.39	-2.90
11,439.0	33.10	182.00	11,415.1	-52.4	143.3	29.9	12.37	10.63	-12.19
11,471.0	36.20	180.80	11,441.4	-70.6	142.8	47.9	9.92	9.69	-3.75
11,502.0	38.60	179.70	11,466.0	-89.4	142.8	66.5	8.04	7.74	-3.55
11,533.0	41.60	179.10	11,489.7	-109.4	143.0	86.2	9.76	9.68	-1.94
11,565.0	45.10	178.50	11,513.0	-131.3	143.4	107.8	11.01	10.94	-1.88
11,596.0	47.60	177.90	11,534.4	-153.7	144.2	129.9	8.19	8.06	-1.94

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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)
11,628.0	51.00	178.60	11,555.3	-178.0	144.9	153.7	10.75	10.63	2.19
11,650.5	53.47	178.60	11,569.1	-195.8	145.3	171.3	10.97	10.97	0.00
LP Toro 36 B3CN St #1H									
11,659.0	54.40	178.60	11,574.1	-202.6	145.5	178.0	10.97	10.97	0.00
11,691.0	57.50	178.20	11,592.0	-229.1	146.2	204.1	9.74	9.69	-1.25
11,723.0	61.10	178.50	11,608.3	-256.6	147.0	231.1	11.28	11.25	0.94
11,754.0	64.60	178.40	11,622.5	-284.2	147.8	258.3	11.29	11.29	-0.32
11,785.0	67.10	177.90	11,635.1	-312.5	148.7	286.1	8.20	8.06	-1.61
11,817.0	70.60	177.50	11,646.7	-342.3	149.9	315.3	11.00	10.94	-1.25
11,848.0	73.50	177.20	11,656.2	-371.7	151.2	344.3	9.40	9.35	-0.97
11,880.0	76.70	176.80	11,664.5	-402.6	152.9	374.5	10.07	10.00	-1.25
11,911.0	80.70	176.30	11,670.5	-433.0	154.7	404.2	13.00	12.90	-1.61
11,942.0	85.50	175.50	11,674.3	-463.7	156.9	434.2	15.69	15.48	-2.58
11,957.0	87.40	175.30	11,675.2	-478.6	158.1	448.8	12.74	12.67	-1.33
12,050.0	92.40	174.90	11,675.3	-571.2	166.0	539.1	5.39	5.38	-0.43
12,081.0	90.50	174.70	11,674.6	-602.1	168.8	569.2	6.16	-6.13	-0.65
12,176.0	89.10	175.00	11,674.9	-696.7	177.4	661.4	1.51	-1.47	0.32
12,271.0	88.90	175.50	11,676.5	-791.3	185.2	753.7	0.57	-0.21	0.53
12,365.0	89.10	175.70	11,678.2	-885.0	192.5	845.2	0.30	0.21	0.21
12,460.0	89.70	176.10	11,679.2	-979.8	199.2	937.8	0.76	0.63	0.42
12,555.0	89.30	175.90	11,680.0	-1,074.6	205.9	1,030.4	0.47	-0.42	-0.21
12,650.0	89.20	175.00	11,681.3	-1,169.3	213.4	1,122.9	0.95	-0.11	-0.95
12,745.0	89.70	177.20	11,682.2	-1,264.0	219.9	1,215.5	2.37	0.53	2.32
12,839.0	91.30	178.60	11,681.3	-1,358.0	223.3	1,307.8	2.26	1.70	1.49
12,933.0	91.30	178.60	11,679.2	-1,451.9	225.6	1,400.3	0.00	0.00	0.00
13,028.0	92.10	178.90	11,676.4	-1,546.8	227.7	1,493.8	0.90	0.84	0.32
13,123.0	87.30	181.10	11,676.9	-1,641.8	227.7	1,587.7	5.56	-5.05	2.32
13,218.0	87.50	180.80	11,681.2	-1,736.7	226.1	1,681.7	0.38	0.21	-0.32
13,312.0	90.30	181.50	11,683.0	-1,830.6	224.2	1,774.8	3.07	2.98	0.74
13,406.0	91.10	182.20	11,681.9	-1,924.6	221.2	1,868.1	1.13	0.85	0.74
13,501.0	91.70	182.20	11,679.5	-2,019.5	217.5	1,962.5	0.63	0.63	0.00
13,595.0	92.40	182.40	11,676.2	-2,113.3	213.8	2,055.8	0.77	0.74	0.21
13,690.0	90.40	182.90	11,673.9	-2,208.2	209.4	2,150.2	2.17	-2.11	0.53
13,784.0	89.40	183.20	11,674.0	-2,302.1	204.4	2,243.8	1.11	-1.06	0.32
13,878.0	90.30	182.70	11,674.3	-2,396.0	199.5	2,337.3	1.10	0.96	-0.53
13,973.0	89.90	180.90	11,674.1	-2,490.9	196.6	2,431.6	1.94	-0.42	-1.89
14,066.0	88.00	179.80	11,675.8	-2,583.9	196.0	2,523.5	2.36	-2.04	-1.18
14,161.0	88.60	180.10	11,678.6	-2,678.8	196.1	2,617.4	0.71	0.63	0.32
14,255.0	89.00	179.90	11,680.6	-2,772.8	196.1	2,710.2	0.48	0.43	-0.21
14,349.0	88.20	179.20	11,682.9	-2,866.8	196.8	2,803.0	1.13	-0.85	-0.74
14,443.0	90.20	179.40	11,684.2	-2,960.8	198.0	2,895.7	2.14	2.13	0.21
14,538.0	90.50	178.70	11,683.6	-3,055.7	199.5	2,989.3	0.80	0.32	-0.74
14,632.0	91.80	178.60	11,681.7	-3,149.7	201.7	3,081.8	1.39	1.38	-0.11

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Toro 36 B3CN St 1H
Project:	Lea County N.M.	TVD Reference:	3396 + 27 @ 3423.0usft (Patterson #220)
Site:	Section 36-23S-34S Toro 36 B3CN St 1H	MD Reference:	3396 + 27 @ 3423.0usft (Patterson #220)
Well:	Toro 36 B3CN 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)
14,726.0	89.70	177.80	11,680.5	-3,243.6	204.7	3,174.2	2.39	-2.23	-0.85
14,820.0	88.60	177.90	11,681.9	-3,337.6	208.2	3,266.5	1.18	-1.17	0.11
14,914.0	91.20	180.10	11,682.1	-3,431.5	209.9	3,359.1	3.62	2.77	2.34
15,008.0	91.60	180.70	11,679.8	-3,525.5	209.2	3,452.1	0.77	0.43	0.64
15,102.0	91.40	180.30	11,677.3	-3,619.5	208.4	3,545.0	0.48	-0.21	-0.43
15,197.0	91.30	180.40	11,675.1	-3,714.4	207.8	3,639.0	0.15	-0.11	0.11
15,291.0	91.10	180.60	11,673.1	-3,808.4	207.0	3,732.0	0.30	-0.21	0.21
15,386.0	89.30	181.40	11,672.8	-3,903.4	205.3	3,826.1	2.07	-1.89	0.84
15,480.0	89.20	181.50	11,674.0	-3,997.4	203.0	3,919.3	0.15	-0.11	0.11
15,574.0	89.30	181.40	11,675.2	-4,091.3	200.6	4,012.5	0.15	0.11	-0.11
15,669.0	89.50	181.30	11,676.2	-4,186.3	198.3	4,106.7	0.24	0.21	-0.11
15,763.0	89.30	180.80	11,677.2	-4,280.3	196.6	4,199.9	0.57	-0.21	-0.53
15,858.0	88.40	181.10	11,679.1	-4,375.2	195.0	4,294.0	1.00	-0.95	0.32
15,953.0	87.20	180.80	11,682.8	-4,470.1	193.5	4,388.0	1.30	-1.26	-0.32
16,047.0	89.20	181.90	11,685.7	-4,564.1	191.2	4,481.2	2.43	2.13	1.17
16,079.0	91.40	182.20	11,685.5	-4,596.0	190.1	4,512.9	6.94	6.88	0.94
16,226.8	91.21	182.76	11,682.2	-4,743.7	183.7	4,659.8	0.40	-0.13	0.38
PBHL Toro 36 B3CN St #1H									
16,237.0	91.20	182.80	11,682.0	-4,753.9	183.2	4,669.9	0.40	-0.13	0.38
16,330.0	90.90	182.80	11,680.3	-4,846.7	178.7	4,762.4	0.32	-0.32	0.00
16,380.0	90.90	182.80	11,679.5	-4,896.7	176.2	4,812.1	0.00	0.00	0.00
16380.0' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
933.0	932.9	-13.4	-2.1	933' MD Rig Survey
16,380.0	11,679.5	-4,896.7	176.2	16380.0' MD Projected to Bit



October 11, 2017

HOBBS OCD

NOV 30 2017

RECEIVED

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
Toro 36 B3CN State #001H
Antelope Ridge; Bone Spring
Lea County, New Mexico
API# 30-025-43885

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>
John Bult	Original Hole	5,113ft. to 16,330ft.	09-06-17 to 09-22-17	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\Toro 36 B3CN State #1H\M171078

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



October 11, 2017

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Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

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 September 06, 2017, through September 22, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 5,113 feet to a depth of 16,330 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 Toro 36 B3CN State #001H well, API # **30-025-43885** 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.

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](#)

30-025-43885 TORO 36 B3CN STATE #001H [318102]

General Well Information

Operator: [14744] MEWBOURNE OIL CO
 Status: New Direction: Horizontal
 Well Type: Oil Multi-Lateral: No
 Work Type: New Mineral Owner: State
 Surface Owner:
 Surface Location: C-36-23S-34E 200 FNL 1980 FWL
 Lat/Long: 32.26765814,-103.42539527 NAD27
 GL Elevation: 3396
 KB Elevation: Sing/Mult Compl: Single
 DF Elevation: Potash Waiver: False

Proposed Formation and/or Notes

3RD BONE SPRING SAND

Depths

Proposed: 16200 Total Vertical Depth: 0
 Measured Vertical Depth: 0 Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 06/27/2017
 Most Recent APD Approval: 06/28/2017 Current APD Expiration: 06/28/2019
 APD Cancellation:
 APD Extension Approval:
 Spud:
 Approved Temporary Gas Capture Plan Received:
 Abandonment: TA Expiration:
 Shut In:
 Plug and Abandoned Intent PNR Expiration:
 Received: Last MIT/BHT:
 Well Plugged:
 Site Release:
 Last Inspection: 08/21/2017

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
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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](#)



Well Completions

[2200] ANTELOPE RIDGE;BONE SPRING

Status: New, Not Drilled Last Produced:
 Bottomhole Location: N-36-23S-34E 330 FSL 2310 FWL
 Lat/Long: 32.253911,-103.425869 NAD83
 Acreage: 160 36-23S-34E Units: C F K N
 DHC: Consolidation Code:
 Production Method:

Well Test Data

Production Test: Test Length: 0 hours
 Flowing Tubing Pressure: 0 psi Flowing Casing Pressure: 0 psi
 Choke Size: 0.000 inches Testing Method:
 Gas Volume: 0.0 MCF Oil Volume: 0.0 bbls
 Gas-Oil Ratio: 0 Kcf / bbl Oil Gravity: 0.0 Corr. API
 Disposition of Gas: Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
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Notes

Event Dates

Initial Effective/Approval: 06/28/2017
 Most Recent Approval: 06/28/2017
 Confidential Requested On:
 Test Allowable Approval:
 TD Reached:
 Deviation Report Received: No
 Directional Survey Run: No
 Directional Survey Received: No
 First Oil Production:
 First Injection:
 Ready to Produce:
 C-104 Approval:
 Plug Back:
 Authorization Revoked Start:
 TA Expiration:
 Confidential Until:
 Test Allowable End:
 DHC:
 Rig Released:
 Logs Received: No
 Closure Pit Plat Received:
 First Gas Production:
 Completion Report Received:
 New Well C-104 Approval:
 Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
06/28/2017	[318102] TORO 36 B3CN STATE	#001H	[14744] MEWBORNE OIL CO	New, Not Drilled	

Financial Assurance

HOBBS OCD



NOV 30 2017

Microsoft
MWD Surveys



RECEIVED

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 36-23S-34S Toro 36 B3CN St 1H
Well: Toro 36 B3CN St 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Toro 36 B3CN St 1H
TVD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
MD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project Lea County N.M.
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

Site Section 36-23S-34S Toro 36 B3CN St 1H
Site Position:
From: Map
Position Uncertainty: 0.0 usft
Northing: 462,279.00 usft
Easting: 780,640.40 usft
Slot Radius: 13-3/16 "
Latitude: 32° 16' 3.570 N
Longitude: 103° 25' 31.423 W
Grid Convergence: 0.48 °

Well Toro 36 B3CN St 1H
Well Position +N/-S 0.0 usft
+E/-W 0.0 usft
Position Uncertainty 0.0 usft
Northing: 462,279.00 usft
Easting: 780,640.40 usft
Wellhead Elevation: usft
Latitude: 32° 16' 3.570 N
Longitude: 103° 25' 31.423 W
Ground Level: 3,396.0 usft

Wellbore Original Hole
Magnetics
Model Name IGRF2015
Sample Date 8/22/2017
Declination (°) 6.87
Dip Angle (°) 60.12
Field Strength (nT) 47,961.06962310

Design Original Hole
Audit Notes:
Version: 1.0
Phase: ACTUAL
Tie On Depth: 0.0
Vertical Section:
Depth From (TVD) (usft) 0.0
+N/-S (usft) 0.0
+E/-W (usft) 0.0
Direction (°) 188.80

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 36-23S-34S Toro 36 B3CN St 1H
Well: Toro 36 B3CN St 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Toro 36 B3CN St 1H
TVD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
MD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program		Date 9/22/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
86.0	933.0	Rig Survey (Original Hole)	MWD	MWD v3:standard declination
5,113.0	16,380.0	MWD Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)		Closure Azimuth (°)
5,060.0	6.19	59.97		5,033.4	195.9	267.3	331.4		53.75
5,113.0	5.10	57.50		5,086.1	198.6	271.7	336.6		53.83
5,207.0	3.30	68.80		5,179.9	201.8	277.8	343.4		53.99
5,303.0	2.00	100.40		5,275.8	202.5	282.0	347.2		54.31
5,397.0	1.90	93.70		5,369.7	202.2	285.2	349.5		54.67
5,492.0	2.10	101.20		5,464.6	201.7	288.4	352.0		55.03
5,586.0	2.10	101.10		5,558.6	201.0	291.8	354.4		55.44
5,680.0	1.90	99.70		5,652.5	200.5	295.0	356.7		55.81
5,775.0	1.00	110.40		5,747.5	199.9	297.4	358.3		56.09
5,869.0	0.90	128.00		5,841.5	199.2	298.7	359.0		56.31
5,964.0	0.80	127.50		5,936.5	198.3	299.8	359.5		56.52
6,059.0	0.60	147.70		6,031.5	197.5	300.6	359.7		56.70
6,153.0	0.30	147.10		6,125.5	196.8	301.0	359.7		56.82
6,247.0	0.50	122.80		6,219.5	196.4	301.5	359.8		56.92
6,341.0	0.60	121.60		6,313.4	195.9	302.3	360.2		57.05
6,435.0	0.40	157.80		6,407.4	195.4	302.8	360.4		57.17
6,530.0	0.50	136.70		6,502.4	194.8	303.2	360.4		57.29
6,624.0	0.40	104.70		6,596.4	194.4	303.8	360.7		57.39
6,719.0	0.50	127.50		6,691.4	194.0	304.5	361.1		57.49
6,813.0	0.20	120.70		6,785.4	193.7	304.9	361.3		57.57
6,908.0	0.40	145.60		6,880.4	193.4	305.3	361.4		57.65

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 36-23S-34S Toro 36 B3CN St 1H
Well: Toro 36 B3CN St 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Toro 36 B3CN St 1H
TVD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
MD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
7,003.0	0.40	142.20	6,975.4	192.8	305.7	361.4	57.75
7,098.0	0.40	104.70	7,070.4	192.5	306.2	361.7	57.85
7,192.0	0.40	133.20	7,164.4	192.2	306.7	362.0	57.93
7,286.0	0.40	131.40	7,258.4	191.7	307.2	362.1	58.03
7,381.0	0.20	60.10	7,353.4	191.6	307.6	362.4	58.08
7,475.0	0.10	88.70	7,447.4	191.7	307.8	362.6	58.09
7,570.0	0.20	6.90	7,542.4	191.8	307.9	362.8	58.08
7,664.0	0.60	333.20	7,636.4	192.4	307.7	363.0	57.98
7,758.0	0.90	350.60	7,730.4	193.6	307.4	363.3	57.80
7,853.0	1.00	8.90	7,825.4	195.2	307.4	364.1	57.59
7,947.0	1.00	359.00	7,919.4	196.8	307.5	365.1	57.38
8,041.0	1.00	2.10	8,013.4	198.4	307.5	366.0	57.17
8,136.0	1.00	18.10	8,108.4	200.1	307.8	367.1	56.98
8,231.0	0.90	33.60	8,203.3	201.5	308.5	368.4	56.85
8,325.0	0.70	5.50	8,297.3	202.6	309.0	369.5	56.74
8,420.0	0.50	33.60	8,392.3	203.6	309.2	370.2	56.64
8,514.0	0.70	18.60	8,486.3	204.5	309.7	371.1	56.56
8,609.0	0.60	70.50	8,581.3	205.2	310.3	372.0	56.53
8,703.0	0.70	89.90	8,675.3	205.3	311.3	373.0	56.59
8,797.0	0.40	148.40	8,769.3	205.1	312.1	373.4	56.69
8,891.0	0.50	164.80	8,863.3	204.4	312.4	373.3	56.80
8,985.0	0.80	184.40	8,957.3	203.3	312.4	372.8	56.94
9,080.0	1.40	179.70	9,052.3	201.5	312.4	371.7	57.17
9,174.0	1.10	201.10	9,146.3	199.5	312.1	370.4	57.41
9,269.0	1.10	250.50	9,241.2	198.4	310.9	368.8	57.46
9,363.0	1.40	268.50	9,335.2	198.0	308.9	366.9	57.33
9,457.0	1.90	276.40	9,429.2	198.2	306.2	364.7	57.09

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 36-23S-34S Toro 36 B3CN St 1H
Well: Toro 36 B3CN St 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Toro 36 B3CN St 1H
TVD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
MD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,551.0	1.50	287.30	9,523.1	198.7	303.5	362.7	56.78
9,646.0	1.50	276.80	9,618.1	199.2	301.0	361.0	56.50
9,740.0	2.00	269.60	9,712.1	199.4	298.2	358.7	56.23
9,834.0	0.50	223.60	9,806.0	199.1	296.3	356.9	56.10
9,928.0	0.30	283.90	9,900.0	198.8	295.7	356.4	56.09
10,023.0	0.90	282.20	9,995.0	199.0	294.8	355.7	55.97
10,117.0	1.60	287.50	10,089.0	199.6	292.8	354.3	55.72
10,211.0	1.70	289.80	10,183.0	200.5	290.2	352.7	55.37
10,305.0	2.00	285.30	10,276.9	201.4	287.3	350.9	54.98
10,400.0	1.10	138.10	10,371.9	201.1	286.3	349.9	54.92
10,494.0	1.10	127.30	10,465.9	199.9	287.7	350.3	55.20
10,589.0	0.70	175.10	10,560.9	198.8	288.4	350.3	55.43
10,683.0	0.70	215.70	10,654.9	197.7	288.1	349.5	55.54
10,778.0	1.40	223.80	10,749.9	196.4	287.0	347.8	55.61
10,872.0	1.80	227.60	10,843.8	194.6	285.1	345.2	55.69
10,967.0	2.50	229.90	10,938.8	192.3	282.4	341.7	55.76
11,026.9	1.83	241.18	10,998.6	191.0	280.6	339.4	55.76
B.B. Toro 36 B3CN St 1H							
11,061.0	1.50	251.90	11,032.7	190.6	279.7	338.4	55.73
11,098.0	1.40	257.90	11,069.7	190.3	278.8	337.6	55.68
11,155.0	2.10	211.30	11,126.7	189.3	277.6	336.0	55.71
11,187.0	5.90	197.50	11,158.6	187.2	276.8	334.1	55.93
11,218.0	9.20	187.70	11,189.3	183.2	276.0	331.2	56.42
11,250.0	13.00	183.00	11,220.7	177.1	275.4	327.4	57.26
11,281.0	16.70	183.50	11,250.7	169.2	275.0	322.8	58.40
11,312.0	20.00	185.40	11,280.1	159.4	274.2	317.2	59.82
11,344.0	23.70	186.60	11,309.8	147.6	272.9	310.3	61.60

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 36-23S-34S Toro 36 B3CN St 1H
Well: Toro 36 B3CN St 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Toro 36 B3CN St 1H
TVD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
MD Reference: 3396 + 27 @ 3423.0usft (Patterson #220)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,376.0	27.10	186.80	11,338.7	134.0	271.3	302.6	63.72
11,407.0	29.70	185.90	11,365.9	119.3	269.7	294.9	66.14
11,439.0	33.10	182.00	11,393.3	102.7	268.6	287.6	69.08
11,471.0	36.20	180.80	11,419.6	84.5	268.2	281.2	72.51
11,502.0	38.60	179.70	11,444.2	65.7	268.1	276.0	76.23
11,533.0	41.60	179.10	11,467.9	45.7	268.3	272.2	80.33
11,565.0	45.10	178.50	11,491.2	23.8	268.8	269.8	84.95
11,596.0	47.60	177.90	11,512.6	1.3	269.5	269.5	89.72
11,628.0	51.00	178.60	11,533.4	-22.9	270.2	271.2	94.85
11,659.0	54.40	178.60	11,552.2	-47.6	270.8	275.0	99.96
11,691.0	57.50	178.20	11,570.1	-74.1	271.5	281.5	105.25
11,723.0	61.10	178.50	11,586.5	-101.6	272.3	290.7	110.45
11,754.0	64.60	178.40	11,600.6	-129.1	273.1	302.1	115.31
11,775.5	66.33	178.05	11,609.5	-148.6	273.7	311.4	118.51
LP Toro 36 B3CN St #1H							
11,785.0	67.10	177.90	11,613.3	-157.4	274.0	316.0	119.87
11,817.0	70.60	177.50	11,624.8	-187.2	275.2	332.8	124.23
11,848.0	73.50	177.20	11,634.4	-216.7	276.6	351.3	128.08
11,880.0	76.70	176.80	11,642.6	-247.5	278.2	372.4	131.66
11,911.0	80.70	176.30	11,648.7	-277.9	280.0	394.5	134.78
11,942.0	85.50	175.50	11,652.4	-308.6	282.2	418.2	137.55
11,957.0	87.40	175.30	11,653.4	-323.5	283.4	430.1	138.78
12,050.0	92.40	174.90	11,653.5	-416.1	291.4	508.0	145.00
12,081.0	90.50	174.70	11,652.7	-447.0	294.2	535.1	146.65
12,176.0	89.10	175.00	11,653.1	-541.6	302.7	620.4	150.80
12,271.0	88.90	175.50	11,654.7	-636.3	310.6	708.0	153.98
12,365.0	89.10	175.70	11,656.4	-730.0	317.8	796.1	156.48



Microsoft MWD Surveys



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,460.0	89.70	176.10	11,657.4	-824.7	324.6	886.3	158.52
12,555.0	89.30	175.90	11,658.2	-919.5	331.2	977.3	160.19
12,650.0	89.20	175.00	11,659.4	-1,014.2	338.7	1,069.2	161.53
12,745.0	89.70	177.20	11,660.3	-1,108.9	345.2	1,161.4	162.71
12,839.0	91.30	178.60	11,659.5	-1,202.9	348.6	1,252.4	163.84
12,933.0	91.30	178.60	11,657.4	-1,296.8	350.9	1,343.5	164.86
13,028.0	92.10	178.90	11,654.6	-1,391.8	353.0	1,435.8	165.77
13,123.0	87.30	181.10	11,655.1	-1,486.7	353.0	1,528.0	166.64
13,218.0	87.50	180.80	11,659.4	-1,581.6	351.4	1,620.2	167.47
13,312.0	90.30	181.50	11,661.2	-1,675.6	349.5	1,711.6	168.22
13,406.0	91.10	182.20	11,660.0	-1,769.5	346.5	1,803.1	168.92
13,501.0	91.70	182.20	11,657.7	-1,864.4	342.9	1,895.7	169.58
13,595.0	92.40	182.40	11,654.3	-1,958.3	339.1	1,987.4	170.18
13,690.0	90.40	182.90	11,652.0	-2,053.1	334.7	2,080.2	170.74
13,784.0	89.40	183.20	11,652.2	-2,147.0	329.7	2,172.2	171.27
13,878.0	90.30	182.70	11,652.4	-2,240.9	324.9	2,264.3	171.75
13,973.0	89.90	180.90	11,652.3	-2,335.8	321.9	2,357.9	172.15
14,066.0	88.00	179.80	11,654.0	-2,428.8	321.3	2,450.0	172.46
14,161.0	88.60	180.10	11,656.8	-2,523.8	321.4	2,544.1	172.74
14,255.0	89.00	179.90	11,658.8	-2,617.7	321.4	2,637.4	173.00
14,349.0	88.20	179.20	11,661.1	-2,711.7	322.1	2,730.8	173.23
14,443.0	90.20	179.40	11,662.4	-2,805.7	323.3	2,824.2	173.43
14,538.0	90.50	178.70	11,661.8	-2,900.7	324.8	2,918.8	173.61
14,632.0	91.80	178.60	11,659.9	-2,994.6	327.1	3,012.4	173.77
14,726.0	89.70	177.80	11,658.7	-3,088.6	330.0	3,106.1	173.90
14,820.0	88.60	177.90	11,660.1	-3,182.5	333.5	3,199.9	174.02
14,914.0	91.20	180.10	11,660.2	-3,276.5	335.2	3,293.6	174.16

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Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,008.0	91.60	180.70	11,657.9	-3,370.4	334.5	3,387.0	174.33
15,102.0	91.40	180.30	11,655.5	-3,464.4	333.7	3,480.4	174.50
15,197.0	91.30	180.40	11,653.2	-3,559.4	333.1	3,574.9	174.65
15,291.0	91.10	180.60	11,651.3	-3,653.3	332.3	3,668.4	174.80
15,386.0	89.30	181.40	11,650.9	-3,748.3	330.6	3,762.9	174.96
15,480.0	89.20	181.50	11,652.2	-3,842.3	328.3	3,856.3	175.12
15,574.0	89.30	181.40	11,653.4	-3,936.2	325.9	3,949.7	175.27
15,669.0	89.50	181.30	11,654.4	-4,031.2	323.6	4,044.2	175.41
15,763.0	89.30	180.80	11,655.4	-4,125.2	321.9	4,137.7	175.54
15,858.0	88.40	181.10	11,657.3	-4,220.1	320.4	4,232.3	175.66
15,953.0	87.20	180.80	11,660.9	-4,315.1	318.8	4,326.8	175.77
16,047.0	89.20	181.90	11,663.9	-4,409.0	316.6	4,420.3	175.89
16,079.0	91.40	182.20	11,663.7	-4,441.0	315.4	4,452.1	175.94
16,237.0	91.20	182.80	11,660.1	-4,598.8	308.5	4,609.1	176.16
16,330.0	90.90	182.80	11,658.4	-4,691.6	304.0	4,701.5	176.29
16,380.0	90.90	182.80	11,657.6	-4,741.6	301.5	4,751.2	176.36

16380.0' MD Projected to Bit - PBHL Toro 36 B3CN St #1H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,380.0	11,657.6	-4,741.6	301.5	16380.0' MD Projected to Bit