



WILDLIFE OIL CONSERVATION
ARTESIA DISTRICT
APR 12 2017

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15-43319

Mewbourne Oil Company

Eddy County, New Mexico

Section 36-35-18S-28E Wild Turkey 36-35 B2AB St Com

Wild Turkey 36-35 B2AB St Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

02 January, 2017





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section36-35-18S-28E Wild Turkey 36-35 B2AB St Com
Well: Wild Turkey 36-35 B2AB St Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Wild Turkey 36-35 B2AB St Com #1H
TVD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
MD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, New Mexico		
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 Section36-35-18S-28E Wild Turkey 36-35 B2AB St Com

Site Position: **From:** Map **Northing:** 622,253.80 usft **Latitude:** 32° 42' 37.781 N
Easting: 565,019.30 usft **Longitude:** 104° 7' 18.999 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.11 °

Well Wild Turkey 36-35 B2AB St Com #1H

Well Position **+N/-S** 0.0 usft **Northing:** 622,253.80 usft **Latitude:** 32° 42' 37.781 N
+E/-W 0.0 usft **Easting:** 565,019.30 usft **Longitude:** 104° 7' 18.999 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 27.0 usft **Ground Level:** 3,426.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/8/2016	7.30	60.43	48,246.95349001

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	345.65

Survey Program Date 1/2/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,740.0	Survey #1 (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
6,810.0	14,480.0	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	0.47	54.92	100.0	0.2	0.3	0.1	0.47	0.47	0.00
200.0	0.25	328.82	200.0	0.7	0.6	0.5	0.52	-0.22	-86.10
300.0	0.38	33.44	300.0	1.1	0.6	0.9	0.35	0.13	64.62
400.0	0.54	65.15	400.0	1.6	1.2	1.2	0.29	0.16	31.71
500.0	0.94	86.10	500.0	1.9	2.5	1.2	0.48	0.40	20.95
600.0	1.86	82.27	600.0	2.1	4.9	0.8	0.92	0.92	-3.83
700.0	1.87	79.52	699.9	2.6	8.1	0.5	0.09	0.01	-2.75
800.0	1.87	69.84	799.8	3.5	11.3	0.6	0.32	0.00	-9.68



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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	1.95	68.38	899.8	4.7	14.4	1.0	0.09	0.08	-1.46
1,000.0	1.57	63.69	999.7	5.9	17.2	1.5	0.41	-0.38	-4.69
1,100.0	1.26	49.97	1,099.7	7.2	19.3	2.2	0.46	-0.31	-13.72
1,200.0	1.49	32.08	1,199.7	9.0	20.8	3.6	0.48	0.23	-17.89
1,300.0	1.55	17.54	1,299.7	11.4	21.9	5.7	0.39	0.06	-14.54
1,400.0	1.37	324.64	1,399.6	13.7	21.6	7.9	1.31	-0.18	-52.90
1,500.0	1.40	357.68	1,499.6	15.9	20.9	10.2	0.79	0.03	33.04
1,600.0	1.55	334.27	1,599.6	18.3	20.2	12.8	0.62	0.15	-23.41
1,700.0	1.66	332.89	1,699.5	20.8	19.0	15.5	0.12	0.11	-1.38
1,800.0	2.11	329.02	1,799.5	23.7	17.4	18.7	0.47	0.45	-3.87
1,900.0	1.30	17.53	1,899.4	26.4	16.8	21.4	1.58	-0.81	48.51
2,000.0	1.89	336.01	1,999.4	29.0	16.4	24.0	1.26	0.59	-41.52
2,100.0	2.15	338.80	2,099.3	32.2	15.1	27.5	0.28	0.26	2.79
2,200.0	1.90	337.79	2,199.3	35.5	13.8	31.0	0.25	-0.25	-1.01
2,300.0	2.06	344.61	2,299.2	38.8	12.7	34.4	0.28	0.16	6.82
2,400.0	1.58	5.04	2,399.2	41.9	12.3	37.5	0.80	-0.48	20.43
2,500.0	1.66	329.51	2,499.1	44.5	11.7	40.2	0.99	0.08	-35.53
2,600.0	2.28	332.54	2,599.1	47.5	10.1	43.5	0.63	0.62	3.03
2,700.0	2.05	335.77	2,699.0	50.9	8.4	47.2	0.26	-0.23	3.23
2,800.0	2.62	339.59	2,798.9	54.7	6.9	51.3	0.59	0.57	3.82
2,900.0	2.65	335.49	2,898.8	58.9	5.1	55.8	0.19	0.03	-4.10
3,000.0	2.73	332.91	2,998.7	63.1	3.1	60.4	0.15	0.08	-2.58
3,100.0	2.55	336.75	3,098.6	67.3	1.1	64.9	0.25	-0.18	3.84
3,200.0	2.51	340.09	3,198.5	71.4	-0.5	69.3	0.15	-0.04	3.34
3,300.0	2.32	336.80	3,298.4	75.3	-2.1	73.5	0.24	-0.19	-3.29
3,400.0	2.46	341.59	3,398.3	79.2	-3.5	77.6	0.24	0.14	4.79
3,500.0	2.34	337.96	3,498.2	83.2	-5.0	81.8	0.19	-0.12	-3.63
3,600.0	2.14	330.73	3,598.1	86.7	-6.7	85.6	0.35	-0.20	-7.23
3,700.0	2.06	331.04	3,698.1	89.9	-8.4	89.2	0.08	-0.08	0.31
3,800.0	2.45	340.37	3,798.0	93.5	-10.0	93.0	0.53	0.39	9.33
3,900.0	2.34	336.01	3,897.9	97.3	-11.6	97.2	0.21	-0.11	-4.36
4,000.0	1.86	343.70	3,997.8	100.8	-12.9	100.8	0.56	-0.48	7.69
4,100.0	1.27	336.58	4,097.8	103.3	-13.8	103.5	0.62	-0.59	-7.12
4,200.0	1.23	349.78	4,197.8	105.4	-14.4	105.7	0.29	-0.04	13.20
4,300.0	1.34	348.66	4,297.8	107.6	-14.8	107.9	0.11	0.11	-1.12
4,400.0	1.80	359.81	4,397.7	110.3	-15.0	110.6	0.55	0.46	11.15
4,500.0	1.00	358.41	4,497.7	112.8	-15.1	113.0	0.80	-0.80	-1.40
4,600.0	1.14	355.15	4,597.7	114.6	-15.2	114.8	0.15	0.14	-3.26
4,700.0	1.01	340.73	4,697.7	116.5	-15.6	116.7	0.30	-0.13	-14.42
4,800.0	1.32	356.12	4,797.6	118.4	-15.9	118.7	0.44	0.31	15.39
4,900.0	1.05	324.41	4,897.6	120.3	-16.5	120.7	0.70	-0.27	-31.71
5,000.0	0.80	41.67	4,997.6	121.6	-16.6	121.9	1.17	-0.25	77.26



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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	0.87	293.28	5,097.6	122.4	-16.8	122.8	1.35	0.07	-108.39
5,200.0	1.08	318.30	5,197.6	123.4	-18.2	124.1	0.47	0.21	25.02
5,300.0	0.88	354.24	5,297.6	124.9	-18.9	125.7	0.63	-0.20	35.94
5,400.0	1.30	300.07	5,397.6	126.2	-19.9	127.2	1.06	0.42	-54.17
5,500.0	1.53	301.25	5,497.5	127.5	-22.1	129.0	0.23	0.23	1.18
5,600.0	2.16	292.51	5,597.5	128.9	-24.9	131.1	0.69	0.63	-8.74
5,700.0	1.37	308.27	5,697.4	130.4	-27.6	133.1	0.92	-0.79	15.76
5,800.0	1.97	295.28	5,797.4	131.8	-30.1	135.2	0.71	0.60	-12.99
5,900.0	1.96	317.33	5,897.3	133.8	-32.8	137.8	0.75	-0.01	22.05
6,000.0	1.55	273.99	5,997.3	135.2	-35.3	139.7	1.35	-0.41	-43.34
6,100.0	1.16	143.51	6,097.3	134.5	-36.1	139.2	2.47	-0.39	-130.48
6,200.0	1.39	92.12	6,197.3	133.6	-34.3	137.9	1.12	0.23	-51.39
6,300.0	0.48	139.20	6,297.2	133.2	-32.8	137.2	1.12	-0.91	47.08
6,400.0	0.25	105.59	6,397.2	132.9	-32.3	136.7	0.30	-0.23	-33.61
6,500.0	1.11	352.56	6,497.2	133.8	-32.2	137.6	1.23	0.86	-113.03
6,600.0	1.13	321.10	6,597.2	135.5	-32.9	139.4	0.61	0.02	-31.46
6,700.0	1.37	306.02	6,697.2	137.0	-34.5	141.3	0.41	0.24	-15.08
6,740.0	0.81	303.50	6,737.2	137.4	-35.2	141.8	1.40	-1.40	-6.30
6740' MD Phoenix Tech Gyro Survey									
6,810.0	1.80	236.10	6,807.2	137.1	-36.5	141.8	2.38	1.41	-96.29
6,872.0	2.10	225.90	6,869.1	135.7	-38.1	140.9	0.74	0.48	-16.45
6,903.0	1.90	225.90	6,900.1	135.0	-38.9	140.4	0.65	-0.65	0.00
6,934.0	2.40	233.90	6,931.1	134.2	-39.8	139.9	1.88	1.61	25.81
6,966.0	4.70	258.30	6,963.0	133.6	-41.6	139.7	8.44	7.19	76.25
6,997.0	7.90	271.10	6,993.8	133.4	-45.0	140.3	11.21	10.32	41.29
7,028.0	12.40	275.70	7,024.3	133.7	-50.4	142.1	14.74	14.52	14.84
7,059.0	15.80	275.30	7,054.4	134.5	-57.9	144.6	10.97	10.97	-1.29
7,090.0	18.90	270.80	7,084.0	134.9	-67.2	147.4	10.89	10.00	-14.52
7,122.0	23.40	265.40	7,113.8	134.5	-78.7	149.8	15.31	14.06	-16.88
7,153.0	27.50	264.40	7,141.8	133.3	-92.0	151.9	13.30	13.23	-3.23
7,184.0	30.80	263.10	7,168.9	131.6	-107.0	154.0	10.84	10.65	-4.19
7,215.0	33.10	262.10	7,195.2	129.5	-123.2	156.0	7.61	7.42	-3.23
7,246.0	35.20	262.20	7,220.8	127.1	-140.5	158.0	6.78	6.77	0.32
7,277.0	37.30	262.30	7,245.8	124.7	-158.6	160.1	6.78	6.77	0.32
7,309.0	39.50	261.50	7,270.9	121.9	-178.3	162.3	7.05	6.88	-2.50
7,340.0	41.50	260.90	7,294.5	118.8	-198.2	164.2	6.57	6.45	-1.94
7,371.0	43.30	261.30	7,317.4	115.5	-218.8	166.2	5.87	5.81	1.29
7,402.0	45.10	262.20	7,339.6	112.4	-240.2	168.5	6.15	5.81	2.90
7,433.0	46.90	263.10	7,361.1	109.6	-262.3	171.2	6.17	5.81	2.90
7,465.0	48.40	264.80	7,382.7	107.1	-285.9	174.6	6.11	4.69	5.31
7,496.0	51.30	266.40	7,402.7	105.3	-309.5	178.7	10.15	9.35	5.16
7,527.0	55.60	266.60	7,421.1	103.8	-334.3	183.4	13.88	13.87	0.65
7,558.0	59.90	266.40	7,437.7	102.2	-360.5	188.4	13.88	13.87	-0.65



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7,589.0	64.40	266.40	7,452.2	100.5	-387.8	193.5	14.52	14.52	0.00
7,621.0	67.80	266.60	7,465.1	98.7	-417.0	199.0	10.64	10.63	0.63
7,652.0	70.30	267.30	7,476.2	97.1	-446.0	204.7	8.34	8.06	2.26
7,683.0	72.00	269.10	7,486.2	96.2	-475.3	211.0	7.76	5.48	5.81
7,714.0	74.20	268.90	7,495.2	95.7	-504.9	217.9	7.12	7.10	-0.65
7,745.0	77.60	268.70	7,502.8	95.1	-535.0	224.7	10.99	10.97	-0.65
7,776.0	81.10	268.20	7,508.5	94.2	-565.4	231.5	11.40	11.29	-1.61
7,801.0	83.90	268.00	7,511.8	93.4	-590.2	236.8	11.23	11.20	-0.80
7,864.0	88.90	265.90	7,515.7	90.1	-653.0	249.1	8.61	7.94	-3.33
7,895.0	89.10	264.00	7,516.3	87.3	-683.8	254.1	6.16	0.65	-6.13
7,926.0	91.50	263.80	7,516.1	84.1	-714.7	258.6	7.77	7.74	-0.65
7,989.0	91.30	263.10	7,514.6	76.9	-777.2	267.1	1.16	-0.32	-1.11
8,082.0	89.50	264.30	7,513.9	66.7	-869.7	280.2	2.33	-1.94	1.29
8,176.0	90.70	266.60	7,513.8	59.2	-963.4	296.2	2.76	1.28	2.45
8,269.0	90.00	266.40	7,513.2	53.5	-1,056.2	313.7	0.78	-0.75	-0.22
8,363.0	89.50	265.30	7,513.6	46.7	-1,149.9	330.3	1.29	-0.53	-1.17
8,456.0	91.80	264.60	7,512.5	38.5	-1,242.6	345.4	2.59	2.47	-0.75
8,550.0	92.70	266.30	7,508.9	31.1	-1,336.2	361.3	2.05	0.96	1.81
8,644.0	91.10	267.60	7,505.7	26.1	-1,430.0	379.8	2.19	-1.70	1.38
8,737.0	91.10	269.20	7,503.9	23.5	-1,522.9	400.3	1.72	0.00	1.72
8,831.0	92.10	268.50	7,501.3	21.6	-1,616.9	421.7	1.30	1.06	-0.74
8,924.0	92.40	270.50	7,497.7	20.8	-1,709.8	444.0	2.17	0.32	2.15
9,017.0	89.90	271.30	7,495.8	22.3	-1,802.8	468.5	2.82	-2.69	0.86
9,111.0	89.70	271.30	7,496.1	24.4	-1,896.7	493.8	0.21	-0.21	0.00
9,204.0	89.30	270.90	7,496.9	26.2	-1,989.7	518.6	0.61	-0.43	-0.43
9,298.0	92.20	268.30	7,495.7	25.5	-2,083.7	541.3	4.14	3.09	-2.77
9,391.0	93.20	267.10	7,491.3	21.8	-2,176.5	560.6	1.68	1.08	-1.29
9,485.0	90.60	266.20	7,488.2	16.3	-2,270.3	578.6	2.93	-2.77	-0.96
9,578.0	90.60	265.00	7,487.2	9.2	-2,363.0	594.6	1.29	0.00	-1.29
9,672.0	91.30	266.60	7,485.7	2.3	-2,456.7	611.2	1.86	0.74	1.70
9,765.0	89.80	267.30	7,484.8	-2.7	-2,549.6	629.4	1.78	-1.61	0.75
9,859.0	91.30	269.90	7,483.9	-5.0	-2,643.6	650.5	3.19	1.60	2.77
9,952.0	91.80	270.50	7,481.4	-4.6	-2,736.5	673.9	0.84	0.54	0.65
10,045.0	91.50	269.70	7,478.7	-4.5	-2,829.5	697.1	0.92	-0.32	-0.86
10,139.0	90.00	269.10	7,477.5	-5.5	-2,923.5	719.4	1.72	-1.60	-0.64
10,232.0	91.50	268.80	7,476.2	-7.2	-3,016.4	740.8	1.64	1.61	-0.32
10,326.0	91.60	267.70	7,473.7	-10.0	-3,110.4	761.3	1.17	0.11	-1.17
10,419.0	92.40	269.10	7,470.5	-12.6	-3,203.3	781.8	1.73	0.86	1.51
10,513.0	90.90	269.90	7,467.8	-13.4	-3,297.2	804.3	1.81	-1.60	0.85
10,606.0	91.10	269.30	7,466.1	-14.1	-3,390.2	826.7	0.68	0.22	-0.65
10,700.0	91.90	268.60	7,463.7	-15.8	-3,484.2	848.4	1.13	0.85	-0.74
10,793.0	91.60	269.50	7,460.8	-17.4	-3,577.1	869.9	1.02	-0.32	0.97



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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Wild Turkey 36-35 B2AB St Com #1H
TVD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
MD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
10,887.0	91.60	270.20	7,458.2	-17.6	-3,671.1	893.0	0.74	0.00	0.74
10,980.0	92.40	270.10	7,455.0	-17.4	-3,764.0	916.2	0.87	0.86	-0.11
11,074.0	93.10	270.00	7,450.4	-17.3	-3,857.9	939.6	0.75	0.74	-0.11
11,167.0	91.40	271.40	7,446.8	-16.1	-3,950.8	963.7	2.37	-1.83	1.51
11,261.0	90.80	271.20	7,445.0	-14.0	-4,044.8	989.1	0.67	-0.64	-0.21
11,354.0	92.00	270.70	7,442.7	-12.5	-4,137.7	1,013.6	1.40	1.29	-0.54
11,448.0	92.70	270.40	7,438.9	-11.6	-4,231.6	1,037.8	0.81	0.74	-0.32
11,541.0	90.70	271.20	7,436.1	-10.3	-4,324.6	1,062.1	2.32	-2.15	0.86
11,635.0	90.40	270.30	7,435.2	-9.0	-4,418.6	1,086.6	1.01	-0.32	-0.96
11,728.0	90.90	270.70	7,434.2	-8.2	-4,511.6	1,110.4	0.69	0.54	0.43
11,822.0	90.70	270.30	7,432.8	-7.4	-4,605.5	1,134.5	0.48	-0.21	-0.43
11,916.0	91.20	269.50	7,431.3	-7.6	-4,699.5	1,157.6	1.00	0.53	-0.85
12,009.0	90.70	268.40	7,429.7	-9.3	-4,792.5	1,179.0	1.30	-0.54	-1.18
12,103.0	92.70	268.80	7,426.9	-11.6	-4,886.4	1,200.1	2.17	2.13	0.43
12,196.0	94.20	268.00	7,421.4	-14.2	-4,979.2	1,220.6	1.83	1.61	-0.86
12,290.0	91.70	268.90	7,416.5	-16.7	-5,073.1	1,241.4	2.83	-2.66	0.96
12,383.0	93.00	269.00	7,412.7	-18.4	-5,166.0	1,262.8	1.40	1.40	0.11
12,477.0	93.20	270.20	7,407.6	-19.1	-5,259.8	1,285.4	1.29	0.21	1.28
12,570.0	91.80	270.70	7,403.6	-18.3	-5,352.7	1,309.1	1.60	-1.51	0.54
12,664.0	92.10	268.80	7,400.4	-18.7	-5,446.7	1,332.0	2.05	0.32	-2.02
12,757.0	91.20	268.80	7,397.7	-20.7	-5,539.6	1,353.2	0.97	-0.97	0.00
12,851.0	89.60	269.80	7,397.0	-21.8	-5,633.6	1,375.4	2.01	-1.70	1.06
12,944.0	89.30	268.80	7,397.9	-23.0	-5,726.6	1,397.3	1.12	-0.32	-1.08
13,038.0	90.40	267.70	7,398.2	-25.8	-5,820.5	1,417.8	1.65	1.17	-1.17
13,131.0	90.90	266.60	7,397.1	-30.5	-5,913.4	1,436.4	1.30	0.54	-1.18
13,225.0	92.10	265.60	7,394.7	-36.9	-6,007.2	1,453.4	1.66	1.28	-1.06
13,318.0	91.30	266.80	7,391.9	-43.0	-6,099.9	1,470.4	1.55	-0.86	1.29
13,412.0	90.70	268.30	7,390.3	-47.0	-6,193.8	1,489.8	1.72	-0.64	1.60
13,505.0	90.80	270.20	7,389.0	-48.2	-6,286.8	1,511.7	2.05	0.11	2.04
13,599.0	89.50	268.80	7,388.8	-49.1	-6,380.8	1,534.2	2.03	-1.38	-1.49
13,692.0	89.80	270.10	7,389.4	-50.0	-6,473.8	1,556.4	1.43	0.32	1.40
13,786.0	89.60	270.20	7,389.8	-49.7	-6,567.8	1,579.9	0.24	-0.21	0.11
13,879.0	90.80	270.20	7,389.5	-49.4	-6,660.8	1,603.3	1.29	1.29	0.00
13,973.0	90.80	271.00	7,388.2	-48.4	-6,754.7	1,627.5	0.85	0.00	0.85
14,066.0	90.30	272.00	7,387.3	-46.0	-6,847.7	1,652.9	1.20	-0.54	1.08
14,176.0	91.60	272.70	7,385.5	-41.5	-6,957.6	1,684.5	1.34	1.18	0.64
14,270.0	92.40	271.30	7,382.2	-38.2	-7,051.5	1,711.0	1.71	0.85	-1.49
14,363.0	92.90	270.90	7,377.9	-36.4	-7,144.4	1,735.7	0.69	0.54	-0.43
14,417.0	93.00	270.90	7,375.1	-35.5	-7,198.3	1,749.9	0.19	0.19	0.00
14,480.0	93.00	270.90	7,371.8	-34.6	-7,261.2	1,766.5	0.00	0.00	0.00

14480' MD Projected to Bit



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 36-35-18S-28E Wild Turkey 36-35 B2AB St Com
Well: Wild Turkey 36-35 B2AB St Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Wild Turkey 36-35 B2AB St Com #1H
TVD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
MD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,740.0	6,737.2	137.4	-35.2	6740' MD Phoenix Tech Gyro Survey
14,480.0	7,371.8	-34.6	-7,261.2	14480' MD Projected to Bit



NEW MEXICO OIL CONSERVATION
ARTESIA DISTRICT

APR 12 2017

RECEIVED

January 30, 2017

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

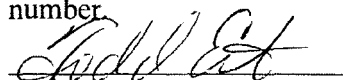
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Wild Turkey 36 35 B2AB State Com #001H
2ND Bone Spring Sand
Eddy County, New Mexico
API# 30-015-43319

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>
Greg Morris	Original Hole	6,810ft. to 14,417ft.	12-20-16 to 12-29-16	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\Wild Turkey 36 35 B2AB State Com #1H\M161089

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



WILDLIFE CONSERVATION
ARTESIA DISTRICT

APR 12 2017

RECEIVED

January 30, 2017

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 December 20, 2016, through December 29, 2016 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 6,810 feet to a depth of 14,417 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 Wild Turkey 36 35 B2AB State Com #001H well, API # 30-015-43319 in Eddy 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



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 36-35-18S-28E Wild Turkey 36-35 B2AB :
Well: Wild Turkey 36-35 B2AB St Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Wild Turkey 36-35 B2AB St Com #1H
TVD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, New Mexico		
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 36-35-18S-28E Wild Turkey 36-35 B2AB St Com		
Site Position:		Northing:	622,253.80 usft
From: Map		Easting:	565,019.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 42' 37.781 N
		Longitude:	104° 7' 18.999 W
		Grid Convergence:	0.11 °

Well	Wild Turkey 36-35 B2AB St Com #1H		
Well Position	+N/-S 0.0 usft	Northing:	622,253.80 usft
	+E/-W 0.0 usft	Easting:	565,019.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 42' 37.781 N
		Longitude:	104° 7' 18.999 W
		Ground Level:	3,426.0usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	12/8/2016	7.30
			Dip Angle (°)
			60.43
			Field Strength (nT)
			48,246.95349002

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 (°)
			345.65



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
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Site: Section 36-35-18S-28E Wild Turkey 36-35 B2AB :
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Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program Date 1/2/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,740.0	Survey #1 (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
6,810.0	14,480.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
6,740.0	0.81	303.50	6,737.2	137.4	-35.2	141.8	345.65	Tie-In
6,810.0	1.80	236.10	6,807.2	137.1	-36.5	141.8	345.09	
6,872.0	2.10	225.90	6,869.1	135.7	-38.1	141.0	344.32	
6,903.0	1.90	225.90	6,900.1	135.0	-38.9	140.5	343.93	
6,934.0	2.40	233.90	6,931.1	134.2	-39.8	140.0	343.49	
6,966.0	4.70	258.30	6,963.0	133.6	-41.6	139.9	342.70	
6,997.0	7.90	271.10	6,993.8	133.4	-45.0	140.7	341.36	
7,028.0	12.40	275.70	7,024.3	133.7	-50.4	142.9	339.34	
7,059.0	15.80	275.30	7,054.4	134.5	-57.9	146.4	336.69	
7,090.0	18.90	270.80	7,084.0	134.9	-67.2	150.7	333.53	
7,122.0	23.40	265.40	7,113.8	134.5	-78.7	155.8	329.67	
7,153.0	27.50	264.40	7,141.8	133.3	-92.0	161.9	325.40	
7,184.0	30.80	263.10	7,168.9	131.6	-107.0	169.6	320.90	
7,215.0	33.10	262.10	7,195.2	129.5	-123.2	178.8	316.43	
7,246.0	35.20	262.20	7,220.8	127.1	-140.5	189.5	312.15	
7,277.0	37.30	262.30	7,245.8	124.7	-158.6	201.8	308.16	
7,309.0	39.50	261.50	7,270.9	121.9	-178.3	216.0	304.35	
7,340.0	41.50	260.90	7,294.5	118.8	-198.2	231.1	300.93	
7,371.0	43.30	261.30	7,317.4	115.5	-218.8	247.5	297.83	
7,402.0	45.10	262.20	7,339.6	112.4	-240.2	265.2	295.08	
7,433.0	46.90	263.10	7,361.1	109.6	-262.3	284.3	292.67	



Microsoft
MWD Surveys



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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 (°)
7,465.0	48.40	264.80	7,382.7	107.1	-285.9	305.3	290.54
7,496.0	51.30	266.40	7,402.7	105.3	-309.5	326.9	288.79
7,527.0	55.60	266.60	7,421.1	103.8	-334.3	350.1	287.24
7,558.0	59.90	266.40	7,437.7	102.2	-360.5	374.7	285.82
7,589.0	64.40	266.40	7,452.2	100.5	-387.8	400.6	284.52
7,621.0	67.80	266.60	7,465.1	98.7	-417.0	428.6	283.31
7,652.0	70.30	267.30	7,476.2	97.1	-446.0	456.4	282.29
7,683.0	72.00	269.10	7,486.2	96.2	-475.3	484.9	281.44
7,714.0	74.20	268.90	7,495.2	95.7	-504.9	513.9	280.73
7,745.0	77.60	268.70	7,502.8	95.1	-535.0	543.4	280.08
7,776.0	81.10	268.20	7,508.5	94.2	-565.4	573.2	279.46
7,801.0	83.90	268.00	7,511.8	93.4	-590.2	597.6	278.99
7,864.0	88.90	265.90	7,515.7	90.1	-653.0	659.2	277.85
7,895.0	89.10	264.00	7,516.3	87.3	-683.8	689.4	277.28
7,926.0	91.50	263.80	7,516.1	84.1	-714.7	719.6	276.71
7,989.0	91.30	263.10	7,514.6	76.9	-777.2	781.0	275.65
8,082.0	89.50	264.30	7,513.9	66.7	-869.7	872.2	274.38
8,176.0	90.70	266.60	7,513.8	59.2	-963.4	965.2	273.52
8,269.0	90.00	266.40	7,513.2	53.5	-1,056.2	1,057.5	272.90
8,363.0	89.50	265.30	7,513.6	46.7	-1,149.9	1,150.9	272.33
8,456.0	91.80	264.60	7,512.5	38.5	-1,242.6	1,243.2	271.78
8,550.0	92.70	266.30	7,508.9	31.1	-1,336.2	1,336.5	271.33
8,644.0	91.10	267.60	7,505.7	26.1	-1,430.0	1,430.2	271.05
8,737.0	91.10	269.20	7,503.9	23.5	-1,522.9	1,523.1	270.88
8,831.0	92.10	268.50	7,501.3	21.6	-1,616.9	1,617.0	270.77
8,924.0	92.40	270.50	7,497.7	20.8	-1,709.8	1,709.9	270.70
9,017.0	89.90	271.30	7,495.8	22.3	-1,802.8	1,802.9	270.71



Microsoft
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Site: Section 36-35-18S-28E Wild Turkey 36-35 B2AB :
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,111.0	89.70	271.30	7,496.1	24.4	-1,896.7	1,896.9	270.74
9,204.0	89.30	270.90	7,496.9	26.2	-1,989.7	1,989.9	270.75
9,298.0	92.20	268.30	7,495.7	25.5	-2,083.7	2,083.8	270.70
9,391.0	93.20	267.10	7,491.3	21.8	-2,176.5	2,176.6	270.57
9,485.0	90.60	266.20	7,488.2	16.3	-2,270.3	2,270.3	270.41
9,578.0	90.60	265.00	7,487.2	9.2	-2,363.0	2,363.0	270.22
9,672.0	91.30	266.60	7,485.7	2.3	-2,456.7	2,456.7	270.05
9,765.0	89.80	267.30	7,484.8	-2.7	-2,549.6	2,549.6	269.94
9,859.0	91.30	269.90	7,483.9	-5.0	-2,643.6	2,643.6	269.89
9,952.0	91.80	270.50	7,481.4	-4.6	-2,736.5	2,736.5	269.90
10,045.0	91.50	269.70	7,478.7	-4.5	-2,829.5	2,829.5	269.91
10,139.0	90.00	269.10	7,477.5	-5.5	-2,923.5	2,923.5	269.89
10,232.0	91.50	268.80	7,476.2	-7.2	-3,016.4	3,016.4	269.86
10,326.0	91.60	267.70	7,473.7	-10.0	-3,110.4	3,110.4	269.82
10,419.0	92.40	269.10	7,470.5	-12.6	-3,203.3	3,203.3	269.77
10,513.0	90.90	269.90	7,467.8	-13.4	-3,297.2	3,297.2	269.77
10,606.0	91.10	269.30	7,466.1	-14.1	-3,390.2	3,390.2	269.76
10,700.0	91.90	268.60	7,463.7	-15.8	-3,484.2	3,484.2	269.74
10,793.0	91.60	269.50	7,460.8	-17.4	-3,577.1	3,577.1	269.72
10,887.0	91.60	270.20	7,458.2	-17.6	-3,671.1	3,671.1	269.73
10,980.0	92.40	270.10	7,455.0	-17.4	-3,764.0	3,764.0	269.74
11,074.0	93.10	270.00	7,450.4	-17.3	-3,857.9	3,857.9	269.74
11,167.0	91.40	271.40	7,446.8	-16.1	-3,950.8	3,950.8	269.77
11,261.0	90.80	271.20	7,445.0	-14.0	-4,044.8	4,044.8	269.80
11,354.0	92.00	270.70	7,442.7	-12.5	-4,137.7	4,137.7	269.83
11,448.0	92.70	270.40	7,438.9	-11.6	-4,231.6	4,231.7	269.84
11,541.0	90.70	271.20	7,436.1	-10.3	-4,324.6	4,324.6	269.86



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 36-35-18S-28E Wild Turkey 36-35 B2AB :
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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Wild Turkey 36-35 B2AB St Com #1H
TVD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
MD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
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 (°)
11,635.0	90.40	270.30	7,435.2	-9.0	-4,418.6	4,418.6	269.88
11,728.0	90.90	270.70	7,434.2	-8.2	-4,511.6	4,511.6	269.90
11,822.0	90.70	270.30	7,432.8	-7.4	-4,605.5	4,605.6	269.91
11,916.0	91.20	269.50	7,431.3	-7.6	-4,699.5	4,699.5	269.91
12,009.0	90.70	268.40	7,429.7	-9.3	-4,792.5	4,792.5	269.89
12,103.0	92.70	268.80	7,426.9	-11.6	-4,886.4	4,886.4	269.86
12,196.0	94.20	268.00	7,421.4	-14.2	-4,979.2	4,979.2	269.84
12,290.0	91.70	268.90	7,416.5	-16.7	-5,073.1	5,073.1	269.81
12,383.0	93.00	269.00	7,412.7	-18.4	-5,166.0	5,166.0	269.80
12,477.0	93.20	270.20	7,407.6	-19.1	-5,259.8	5,259.8	269.79
12,570.0	91.80	270.70	7,403.6	-18.3	-5,352.7	5,352.8	269.80
12,664.0	92.10	268.80	7,400.4	-18.7	-5,446.7	5,446.7	269.80
12,757.0	91.20	268.80	7,397.7	-20.7	-5,539.6	5,539.6	269.79
12,851.0	89.60	269.80	7,397.0	-21.8	-5,633.6	5,633.6	269.78
12,944.0	89.30	268.80	7,397.9	-23.0	-5,726.6	5,726.6	269.77
13,038.0	90.40	267.70	7,398.2	-25.8	-5,820.5	5,820.6	269.75
13,131.0	90.90	266.60	7,397.1	-30.5	-5,913.4	5,913.5	269.70
13,225.0	92.10	265.60	7,394.7	-36.9	-6,007.2	6,007.3	269.65
13,318.0	91.30	266.80	7,391.9	-43.0	-6,099.9	6,100.1	269.60
13,412.0	90.70	268.30	7,390.3	-47.0	-6,193.8	6,194.0	269.56
13,505.0	90.80	270.20	7,389.0	-48.2	-6,286.8	6,287.0	269.56
13,599.0	89.50	268.80	7,388.8	-49.1	-6,380.8	6,381.0	269.56
13,692.0	89.80	270.10	7,389.4	-50.0	-6,473.8	6,474.0	269.56
13,786.0	89.60	270.20	7,389.8	-49.7	-6,567.8	6,567.9	269.57
13,879.0	90.80	270.20	7,389.5	-49.4	-6,660.8	6,660.9	269.58
13,973.0	90.80	271.00	7,388.2	-48.4	-6,754.7	6,754.9	269.59
14,066.0	90.30	272.00	7,387.3	-46.0	-6,847.7	6,847.9	269.62



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section35-35-18S-28E Wild Turkey 36-35 B2AB :
Well: Wild Turkey 36-35 B2AB St Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Wild Turkey 36-35 B2AB St Com #1H
TVD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
MD Reference: 3426 + 27 @ 3453.0usft (Patterson 250)
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 (°)
14,176.0	91.60	272.70	7,385.5	-41.5	-6,957.6	6,957.7	269.66
14,270.0	92.40	271.30	7,382.2	-38.2	-7,051.5	7,051.6	269.69
14,363.0	92.90	270.90	7,377.9	-36.4	-7,144.4	7,144.5	269.71
14,417.0	93.00	270.90	7,375.1	-35.5	-7,198.3	7,198.4	269.72
14,480.0	93.00	270.90	7,371.8	-34.6	-7,261.2	7,261.3	269.73

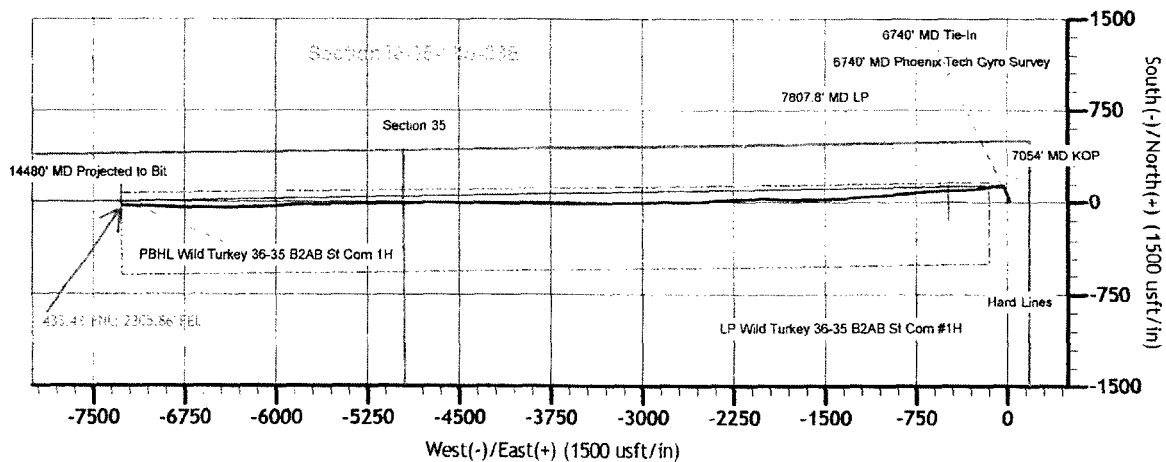
14480' MD Projected to Bit

Survey Annotations

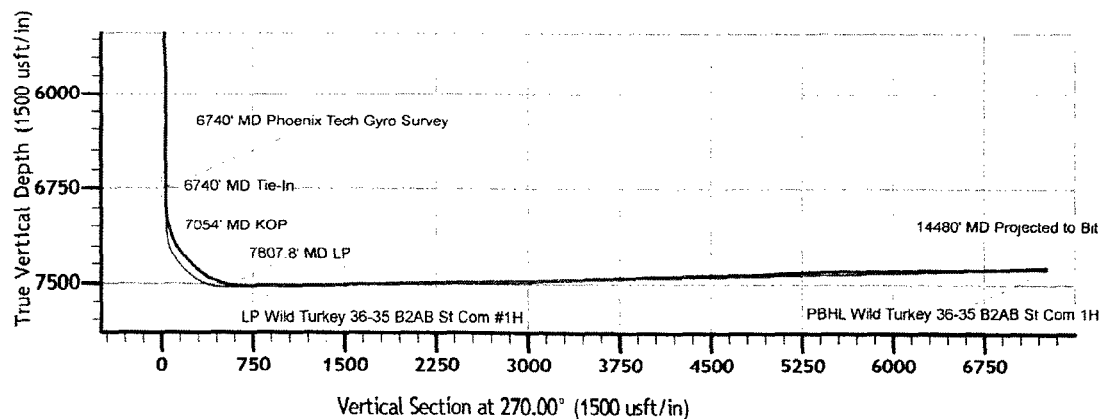
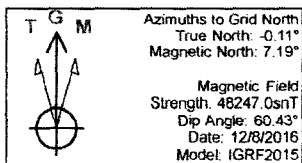
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,480.0	7,371.8	-34.6	-7,261.2	14480' MD Projected to Bit

GEODEIC ZONE: New Mexico East 3001 3426 + 27 @ 3453.0usft (Patterson 250) GROUND ELEVATION: 3426.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.0	0.0	622253.80	565019.30	32° 42' 37.781 N	104° 7' 18.999 W	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	6740.0	0.81	303.50	6737.2	137.4	-35.2	0.00	0.00	35.2	
2	7054.0	0.81	303.50	7051.1	139.9	-38.9	0.00	0.00	38.9	
3	7807.8	91.12	268.86	7523.0	134.0	-525.6	12.00	-34.64	525.6	
4	14550.0	91.12	268.86	7391.0	-0.3	-7265.2	0.00	0.00	7265.2	PBHL Wild Turkey 36-35 B2AB St Com 1H



SHL: 500' FNL: 165' FEL
Section 36-18S-28E
PBHL 400' FNL: 2310' FEL
Section 35-18S-28E





COMPANY: Mewbourne Oil Company
 WELL: Wild Turkey 36-35 B2AB St Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)



OFFICE: 936.582.7296

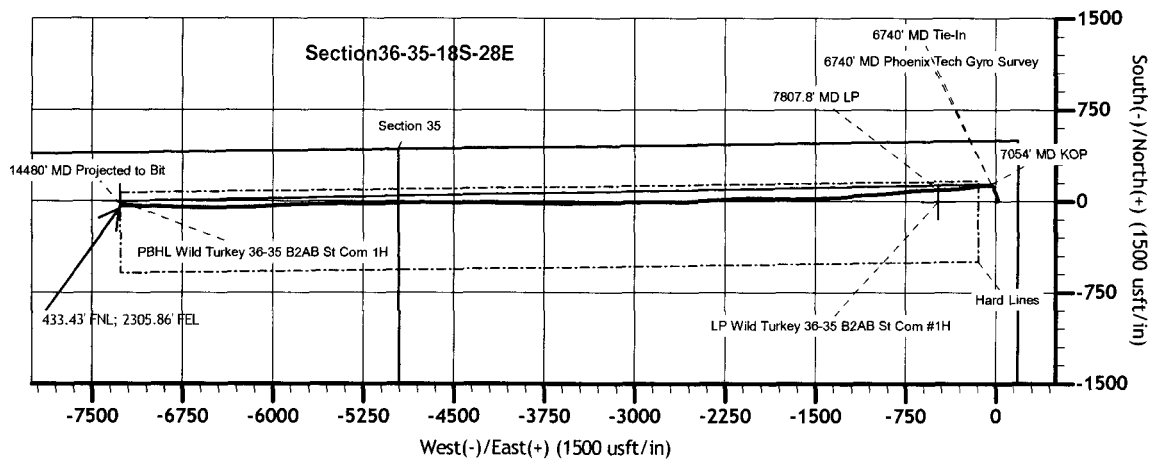
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.19°

GEODETIC ZONE: New Mexico East 3001
 3426 + 27 @ 3453.0usft (Patterson 250)
 GROUND ELEVATION: 3426.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	622253.80	565019.30	32° 42' 37.781 N	104° 7' 18.999 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	6740.0	0.81	303.50	6737.2	137.4	-35.2	0.00	0.00	35.2	Target
2	7054.0	0.81	303.50	7051.1	139.9	-38.9	0.00	0.00	38.9	
3	7807.8	91.12	268.86	7523.0	134.0	-525.6	12.00	-34.64	525.6	
4	14550.0	91.12	268.86	7391.0	-0.3	-7265.2	0.00	0.00	7265.2	PBHL Wild Turkey 36-35 B2AB St Com 1H



SHL: 500' FNL; 185' FEL
 Section 36-18S-28E
 PBHL: 400' FNL; 2310' FEL
 Section 35-18S-28E

