



Mewbourne Oil Company

Eddy County, New Mexico

Section 31-32-18S-29E Pavo Macho 31-32 B2EH Fed

Pavo Macho 31-32 B2EH Fed Com #1H

Original Hole *30-015-43784*

Design: Original Hole

Standard Survey Report

04 December, 2017





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-32-18S-29E Pavo Macho 31-32 B2EH Fed
Well: Pavo Macho 31-32 B2EH Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31-32 B2EH Fed Com #1H
TVD Reference: 3405 + 27 @ 3432.0usft (Patterson 220)
MD Reference: 3405 + 27 @ 3432.0usft (Patterson 220)
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 31-32-18S-29E Pavo Macho 31-32 B2EH Fed

Site Position:	Northing:	620,468.90 usft	Latitude:	32° 42' 20.111 N
From: Map	Easting:	565,384.20 usft	Longitude:	104° 7' 14.770 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.11 °

Well Pavo Macho 31-32 B2EH Fed Com #1H

Well Position	+N/-S	0.0 usft	Northing:	620,468.90 usft	Latitude:	32° 42' 20.111 N
	+E/-W	0.0 usft	Easting:	565,384.20 usft	Longitude:	104° 7' 14.770 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,405.0 usft	

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/2/2017	7.20	60.41	48,125.80969446

Design Original Hole

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	88.49

Survey Program Date 12/4/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,185.0	17,170.0	Survey #1 (Original Hole)		

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)
1,078.0	0.66	79.26	1,077.8	-0.7	17.8	17.8	0.00	0.00	0.00
1,185.0	0.90	74.50	1,184.8	-0.4	19.3	19.2	0.23	0.22	-4.45
1,312.0	0.90	75.40	1,311.8	0.2	21.2	21.2	0.01	0.00	0.71
1,439.0	1.00	85.70	1,438.8	0.5	23.3	23.3	0.16	0.08	8.11
1,566.0	0.90	85.30	1,565.7	0.7	25.4	25.4	0.08	-0.08	-0.31
1,693.0	0.60	67.90	1,692.7	1.0	27.0	27.0	0.29	-0.24	-13.70
1,789.0	0.40	67.30	1,788.7	1.3	27.7	27.8	0.21	-0.21	-0.63
1,884.0	0.40	80.10	1,883.7	1.5	28.4	28.4	0.09	0.00	13.47
1,978.0	0.30	164.30	1,977.7	1.3	28.8	28.8	0.51	-0.11	89.57
2,073.0	0.30	198.90	2,072.7	0.8	28.8	28.8	0.19	0.00	36.42

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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)
2,167.0	0.60	206.20	2,166.7	0.2	28.5	28.5	0.32	0.32	7.77
2,262.0	0.70	185.30	2,261.7	-0.9	28.2	28.2	0.27	0.11	-22.00
2,356.0	0.70	188.40	2,355.7	-2.0	28.0	28.0	0.04	0.00	3.30
2,450.0	1.00	173.50	2,449.7	-3.4	28.1	28.0	0.39	0.32	-15.85
2,544.0	0.70	198.00	2,543.7	-4.7	28.0	27.8	0.49	-0.32	26.06
2,639.0	0.60	208.40	2,638.7	-5.7	27.6	27.4	0.16	-0.11	10.95
2,733.0	0.80	215.20	2,732.7	-6.7	26.9	26.8	0.23	0.21	7.23
2,827.0	0.70	224.10	2,826.7	-7.6	26.2	26.0	0.16	-0.11	9.47
2,922.0	0.50	242.00	2,921.7	-8.3	25.4	25.2	0.29	-0.21	18.84
3,016.0	0.70	225.50	3,015.7	-8.8	24.6	24.4	0.28	0.21	-17.55
3,111.0	0.40	220.80	3,110.6	-9.5	24.0	23.7	0.32	-0.32	-4.95
3,205.0	0.60	217.30	3,204.6	-10.1	23.5	23.2	0.22	0.21	-3.72
3,300.0	0.50	230.00	3,299.6	-10.8	22.9	22.6	0.17	-0.11	13.37
3,394.0	0.50	221.80	3,393.6	-11.4	22.3	22.0	0.08	0.00	-8.72
3,489.0	0.50	255.90	3,488.6	-11.8	21.6	21.3	0.31	0.00	35.89
3,583.0	0.40	253.00	3,582.6	-12.0	20.9	20.6	0.11	-0.11	-3.09
3,677.0	0.60	284.60	3,676.6	-12.0	20.1	19.8	0.35	0.21	33.62
3,771.0	0.70	290.00	3,770.6	-11.6	19.1	18.8	0.12	0.11	5.74
3,866.0	0.60	281.10	3,865.6	-11.3	18.0	17.7	0.15	-0.11	-9.37
3,961.0	0.80	272.60	3,960.6	-11.2	16.9	16.6	0.24	0.21	-8.95
4,055.0	1.10	283.00	4,054.6	-11.0	15.4	15.1	0.37	0.32	11.06
4,149.0	1.10	275.70	4,148.6	-10.7	13.6	13.3	0.15	0.00	-7.77
4,244.0	1.20	265.80	4,243.6	-10.7	11.7	11.4	0.23	0.11	-10.42
4,338.0	1.20	277.90	4,337.5	-10.6	9.7	9.4	0.27	0.00	12.87
4,433.0	1.30	280.70	4,432.5	-10.3	7.7	7.4	0.12	0.11	2.95
4,527.0	1.50	267.50	4,526.5	-10.1	5.4	5.1	0.40	0.21	-14.04
4,622.0	1.40	260.30	4,621.5	-10.4	3.0	2.7	0.22	-0.11	-7.58
4,716.0	1.30	265.10	4,715.4	-10.7	0.8	0.5	0.16	-0.11	5.11
4,810.0	1.20	262.90	4,809.4	-10.9	-1.2	-1.5	0.12	-0.11	-2.34
4,905.0	1.10	267.50	4,904.4	-11.0	-3.1	-3.4	0.14	-0.11	4.84
4,999.0	0.80	270.60	4,998.4	-11.1	-4.7	-5.0	0.32	-0.32	3.30
5,093.0	0.60	250.60	5,092.4	-11.2	-5.8	-6.1	0.33	-0.21	-21.28
5,187.0	0.60	247.60	5,186.4	-11.6	-6.7	-7.0	0.03	0.00	-3.19
5,281.0	0.40	268.70	5,280.4	-11.8	-7.5	-7.8	0.29	-0.21	22.45
5,375.0	0.70	276.10	5,374.4	-11.7	-8.4	-8.7	0.33	0.32	7.87
5,470.0	1.00	299.20	5,469.3	-11.3	-9.7	-10.0	0.47	0.32	24.32
5,564.0	1.50	304.90	5,563.3	-10.1	-11.4	-11.7	0.55	0.53	6.06
5,659.0	1.90	306.00	5,658.3	-8.5	-13.7	-13.9	0.42	0.42	1.16
5,754.0	0.60	302.70	5,753.3	-7.3	-15.4	-15.6	1.37	-1.37	-3.47
5,848.0	0.70	290.80	5,847.3	-6.8	-16.4	-16.5	0.18	0.11	-12.66
5,942.0	0.90	272.50	5,941.2	-6.6	-17.6	-17.8	0.34	0.21	-19.47
6,037.0	1.50	239.20	6,036.2	-7.2	-19.4	-19.6	0.94	0.63	-35.05

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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)
6,132.0	1.70	192.80	6,131.2	-9.2	-20.8	-21.1	1.34	0.21	-48.84
6,226.0	2.10	214.60	6,225.1	-12.0	-22.1	-22.4	0.87	0.43	23.19
6,321.0	1.10	223.20	6,320.1	-14.1	-23.7	-24.1	1.08	-1.05	9.05
6,416.0	1.10	221.00	6,415.1	-15.5	-24.9	-25.3	0.04	0.00	-2.32
6,511.0	1.00	234.00	6,510.1	-16.6	-26.2	-26.6	0.27	-0.11	13.68
6,605.0	0.80	224.90	6,604.1	-17.6	-27.3	-27.8	0.26	-0.21	-9.68
6,700.0	0.90	220.80	6,699.0	-18.6	-28.3	-28.8	0.12	0.11	-4.32
6,794.0	0.90	221.60	6,793.0	-19.7	-29.3	-29.8	0.01	0.00	0.85
6,889.0	2.10	202.30	6,888.0	-21.9	-30.4	-31.0	1.35	1.26	-20.32
6,984.0	0.40	247.70	6,983.0	-23.6	-31.4	-32.0	1.94	-1.79	47.79
7,027.0	0.40	150.40	7,026.0	-23.8	-31.5	-32.1	1.40	0.00	-226.28
7,059.0	4.10	97.40	7,057.9	-24.1	-30.3	-30.9	12.10	11.56	-165.63
7,092.0	8.00	92.40	7,090.8	-24.3	-26.8	-27.4	11.91	11.82	-15.15
7,123.0	11.40	89.40	7,121.3	-24.4	-21.6	-22.2	11.08	10.97	-9.68
7,155.0	15.50	85.50	7,152.4	-24.0	-14.2	-14.8	13.12	12.81	-12.19
7,186.0	18.30	85.70	7,182.1	-23.3	-5.2	-5.8	9.03	9.03	0.65
7,218.0	20.40	87.90	7,212.3	-22.7	5.4	4.8	6.95	6.56	6.88
7,250.0	23.80	89.70	7,241.9	-22.5	17.5	16.9	10.83	10.63	5.63
7,281.0	27.60	90.40	7,269.8	-22.5	30.9	30.3	12.30	12.26	2.26
7,313.0	29.80	92.20	7,297.9	-22.9	46.3	45.6	7.39	6.88	5.63
7,344.0	33.80	89.40	7,324.3	-23.1	62.6	62.0	13.75	12.90	-9.03
7,376.0	37.80	88.70	7,350.2	-22.8	81.3	80.7	12.57	12.50	-2.19
7,408.0	41.20	87.60	7,374.9	-22.1	101.6	101.0	10.85	10.63	-3.44
7,439.0	44.80	87.00	7,397.6	-21.1	122.7	122.1	11.69	11.61	-1.94
7,471.0	47.80	87.00	7,419.7	-19.9	145.8	145.3	9.38	9.38	0.00
7,503.0	50.60	87.20	7,440.6	-18.7	170.0	169.5	8.76	8.75	0.63
7,534.0	53.70	89.40	7,459.6	-17.9	194.5	194.0	11.46	10.00	7.10
7,566.0	57.00	91.50	7,477.8	-18.2	220.8	220.3	11.64	10.31	6.56
7,597.0	60.10	92.30	7,494.0	-19.0	247.2	246.7	10.24	10.00	2.58
7,629.0	63.50	92.70	7,509.1	-20.3	275.4	274.8	10.68	10.63	1.25
7,660.0	67.40	92.50	7,522.0	-21.5	303.6	302.9	12.59	12.58	-0.65
7,692.0	70.50	92.40	7,533.4	-22.8	333.4	332.7	9.69	9.69	-0.31
7,724.0	72.80	92.50	7,543.5	-24.1	363.8	363.0	7.19	7.19	0.31
7,755.0	76.10	92.30	7,551.8	-25.4	393.6	392.8	10.66	10.65	-0.65
7,787.0	80.40	91.90	7,558.3	-26.5	424.9	424.0	13.49	13.44	-1.25
7,819.0	85.10	91.60	7,562.4	-27.5	456.6	455.7	14.72	14.69	-0.94
7,832.0	86.30	91.60	7,563.4	-27.8	469.6	468.7	9.23	9.23	0.00
7,845.1	86.94	91.97	7,564.1	-28.3	482.6	481.7	5.62	4.88	2.80
LP Pavo Macho 31-32 B2EH Fed Com 1h									
7,918.0	90.50	94.00	7,565.8	-32.0	555.4	554.4	5.62	4.88	2.79
8,013.0	87.50	94.20	7,567.4	-38.8	650.1	648.9	3.16	-3.16	0.21
8,107.0	87.70	93.60	7,571.4	-45.2	743.8	742.4	0.67	0.21	-0.64
8,201.0	87.90	92.10	7,575.0	-49.9	837.7	836.0	1.61	0.21	-1.60

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8,296.0	88.70	91.20	7,577.8	-52.6	932.6	930.9	1.27	0.84	-0.95
8,390.0	89.00	91.60	7,579.7	-54.9	1,026.5	1,024.7	0.53	0.32	0.43
8,484.0	89.40	91.60	7,581.0	-57.5	1,120.5	1,118.6	0.43	0.43	0.00
8,578.0	89.80	91.90	7,581.6	-60.4	1,214.4	1,212.4	0.53	0.43	0.32
8,673.0	89.70	93.00	7,582.1	-64.5	1,309.3	1,307.2	1.16	-0.11	1.16
8,767.0	88.40	91.30	7,583.6	-68.0	1,403.3	1,401.0	2.28	-1.38	-1.81
8,862.0	88.20	91.90	7,586.4	-70.7	1,498.2	1,495.8	0.67	-0.21	0.63
8,956.0	86.60	91.10	7,590.7	-73.1	1,592.0	1,589.6	1.90	-1.70	-0.85
9,051.0	88.00	90.80	7,595.2	-74.7	1,686.9	1,684.4	1.51	1.47	-0.32
9,146.0	87.60	89.70	7,598.8	-75.1	1,781.8	1,779.3	1.23	-0.42	-1.16
9,240.0	90.50	91.30	7,600.4	-75.9	1,875.8	1,873.2	3.52	3.09	1.70
9,335.0	89.90	90.50	7,600.0	-77.4	1,970.8	1,968.1	1.05	-0.63	-0.84
9,429.0	89.40	90.80	7,600.6	-78.5	2,064.8	2,062.0	0.62	-0.53	0.32
9,524.0	89.80	89.90	7,601.3	-79.1	2,159.8	2,157.0	1.04	0.42	-0.95
9,618.0	89.80	88.80	7,601.6	-78.0	2,253.8	2,251.0	1.17	0.00	-1.17
9,713.0	88.30	92.00	7,603.2	-78.7	2,348.8	2,345.9	3.72	-1.58	3.37
9,807.0	88.80	91.30	7,605.6	-81.4	2,442.7	2,439.7	0.91	0.53	-0.74
9,902.0	88.80	91.80	7,607.6	-83.9	2,537.6	2,534.5	0.53	0.00	0.53
9,996.0	89.10	92.40	7,609.3	-87.4	2,631.5	2,628.3	0.71	0.32	0.64
10,090.0	88.60	92.50	7,611.2	-91.4	2,725.4	2,722.1	0.54	-0.53	0.11
10,185.0	88.00	92.70	7,614.0	-95.7	2,820.3	2,816.8	0.67	-0.63	0.21
10,280.0	86.50	92.50	7,618.5	-100.0	2,915.1	2,911.5	1.59	-1.58	-0.21
10,376.0	88.80	92.00	7,622.5	-103.8	3,010.9	3,007.2	2.45	2.40	-0.52
10,472.0	91.20	93.20	7,622.5	-108.1	3,106.8	3,102.9	2.80	2.50	1.25
10,568.0	91.70	94.40	7,620.0	-114.5	3,202.6	3,198.5	1.35	0.52	1.25
10,663.0	91.20	91.70	7,617.6	-119.5	3,297.4	3,293.1	2.89	-0.53	-2.84
10,759.0	88.80	91.30	7,617.6	-122.1	3,393.4	3,389.0	2.53	-2.50	-0.42
10,854.0	89.40	91.60	7,619.1	-124.5	3,488.3	3,483.8	0.71	0.63	0.32
10,948.0	88.40	90.30	7,620.9	-126.0	3,582.3	3,577.7	1.74	-1.06	-1.38
11,043.0	89.30	91.00	7,622.8	-127.1	3,677.3	3,672.7	1.20	0.95	0.74
11,138.0	90.20	91.00	7,623.3	-128.7	3,772.2	3,767.6	0.95	0.95	0.00
11,232.0	89.50	91.40	7,623.5	-130.7	3,866.2	3,861.5	0.86	-0.74	0.43
11,326.0	88.50	90.50	7,625.1	-132.3	3,960.2	3,955.4	1.43	-1.06	-0.96
11,421.0	88.40	90.10	7,627.7	-132.8	4,055.2	4,050.3	0.43	-0.11	-0.42
11,515.0	88.50	90.60	7,630.3	-133.3	4,149.1	4,144.2	0.54	0.11	0.53
11,610.0	90.20	91.30	7,631.3	-134.9	4,244.1	4,239.1	1.94	1.79	0.74
11,704.0	90.80	92.30	7,630.5	-137.9	4,338.0	4,332.9	1.24	0.64	1.06
11,799.0	89.20	91.00	7,630.5	-140.6	4,433.0	4,427.8	2.17	-1.68	-1.37
11,893.0	88.90	91.60	7,632.1	-142.7	4,527.0	4,521.7	0.71	-0.32	0.64
11,988.0	90.00	92.70	7,633.0	-146.3	4,621.9	4,616.5	1.64	1.16	1.16
12,082.0	88.70	91.90	7,634.0	-150.1	4,715.8	4,710.2	1.62	-1.38	-0.85
12,176.0	87.60	91.90	7,637.1	-153.2	4,809.7	4,804.0	1.17	-1.17	0.00

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-32-18S-29E Pavo Macho 31-32 B2EH Fed
Well: Pavo Macho 31-32 B2EH Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31-32 B2EH Fed Com #1H
TVD Reference: 3405 + 27 @ 3432.0usft (Patterson 220)
MD Reference: 3405 + 27 @ 3432.0usft (Patterson 220)
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)
12,270.0	88.60	90.80	7,640.2	-155.4	4,903.6	4,897.8	1.58	1.06	-1.17
12,365.0	88.50	90.40	7,642.6	-156.4	4,998.6	4,992.8	0.43	-0.11	-0.42
12,460.0	89.90	90.80	7,643.9	-157.4	5,093.6	5,087.7	1.53	1.47	0.42
12,555.0	89.10	91.20	7,644.8	-159.1	5,188.6	5,182.6	0.94	-0.84	0.42
12,649.0	89.40	91.60	7,646.0	-161.3	5,282.5	5,276.5	0.53	0.32	0.43
12,744.0	90.20	92.00	7,646.3	-164.3	5,377.5	5,371.3	0.94	0.84	0.42
12,838.0	90.30	92.30	7,645.9	-167.9	5,471.4	5,465.1	0.34	0.11	0.32
12,932.0	91.60	91.40	7,644.4	-170.9	5,565.3	5,558.9	1.68	1.38	-0.96
13,027.0	89.50	91.10	7,643.4	-173.0	5,660.3	5,653.8	2.23	-2.21	-0.32
13,121.0	89.40	91.10	7,644.3	-174.8	5,754.3	5,747.7	0.11	-0.11	0.00
13,216.0	88.50	91.70	7,646.1	-177.1	5,849.2	5,842.6	1.14	-0.95	0.63
13,310.0	88.00	91.80	7,649.0	-180.0	5,943.1	5,936.4	0.54	-0.53	0.11
13,405.0	85.40	92.70	7,654.4	-183.7	6,037.9	6,031.0	2.90	-2.74	0.95
13,499.0	89.30	91.80	7,658.8	-187.4	6,131.7	6,124.7	4.26	4.15	-0.96
13,593.0	90.30	92.50	7,659.1	-190.9	6,225.6	6,218.5	1.30	1.06	0.74
13,688.0	91.10	90.60	7,657.9	-193.5	6,320.6	6,313.3	2.17	0.84	-2.00
13,782.0	90.90	90.80	7,656.3	-194.6	6,414.6	6,407.2	0.30	-0.21	0.21
13,877.0	89.20	89.90	7,656.2	-195.2	6,509.6	6,502.2	2.02	-1.79	-0.95
13,971.0	86.90	89.70	7,659.4	-194.9	6,603.5	6,596.1	2.46	-2.45	-0.21
14,066.0	90.30	90.10	7,661.7	-194.7	6,698.5	6,691.0	3.60	3.58	0.42
14,160.0	90.40	91.00	7,661.2	-195.6	6,792.5	6,785.0	0.96	0.11	0.96
14,255.0	91.00	93.50	7,660.0	-199.3	6,887.4	6,879.8	2.71	0.63	2.63
14,349.0	89.40	91.60	7,659.7	-203.5	6,981.3	6,973.5	2.64	-1.70	-2.02
14,443.0	87.10	92.40	7,662.5	-206.8	7,075.2	7,067.3	2.59	-2.45	0.85
14,538.0	88.90	91.90	7,665.9	-210.4	7,170.0	7,162.0	1.97	1.89	-0.53
14,633.0	89.00	92.80	7,667.6	-214.2	7,264.9	7,256.8	0.95	0.11	0.95
14,727.0	89.70	93.60	7,668.7	-219.5	7,358.8	7,350.5	1.13	0.74	0.85
14,822.0	89.10	89.70	7,669.7	-222.2	7,453.7	7,445.3	4.15	-0.63	-4.11
14,916.0	89.20	90.10	7,671.1	-222.1	7,547.7	7,539.3	0.44	0.11	0.43
15,010.0	86.20	89.10	7,674.8	-221.4	7,641.6	7,633.2	3.36	-3.19	-1.06
15,104.0	89.80	90.80	7,678.1	-221.3	7,735.5	7,727.1	4.23	3.83	1.81
15,199.0	88.80	90.90	7,679.3	-222.7	7,830.5	7,822.0	1.06	-1.05	0.11
15,293.0	90.30	91.60	7,680.0	-224.8	7,924.5	7,915.9	1.76	1.60	0.74
15,387.0	88.90	91.40	7,680.7	-227.2	8,018.5	8,009.7	1.50	-1.49	-0.21
15,482.0	91.30	90.80	7,680.5	-229.1	8,113.4	8,104.6	2.60	2.53	-0.63
15,577.0	89.90	91.20	7,679.5	-230.7	8,208.4	8,199.5	1.53	-1.47	0.42
15,671.0	88.80	91.90	7,680.6	-233.3	8,302.4	8,293.4	1.39	-1.17	0.74
15,765.0	89.00	92.40	7,682.4	-236.8	8,396.3	8,387.2	0.57	0.21	0.53
15,859.0	89.20	93.50	7,683.8	-241.6	8,490.1	8,480.9	1.19	0.21	1.17
15,953.0	89.10	92.30	7,685.2	-246.4	8,584.0	8,574.6	1.28	-0.11	-1.28
16,048.0	90.20	91.60	7,685.8	-249.6	8,679.0	8,669.4	1.37	1.16	-0.74
16,142.0	90.20	91.60	7,685.5	-252.2	8,772.9	8,763.3	0.00	0.00	0.00
16,237.0	89.90	92.30	7,685.4	-255.5	8,867.9	8,858.1	0.80	-0.32	0.74



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-32-18S-29E Pavo Macho 31-32 B2EH Fed
Well: Pavo Macho 31-32 B2EH Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31-32 B2EH Fed Com #1H
TVD Reference: 3405 + 27 @ 3432.0usft (Patterson 220)
MD Reference: 3405 + 27 @ 3432.0usft (Patterson 220)
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)
16,331.0	88.70	91.50	7,686.6	-258.6	8,961.8	8,951.9	1.53	-1.28	-0.85
16,426.0	87.50	91.60	7,689.7	-261.2	9,056.7	9,046.7	1.27	-1.26	0.11
16,520.0	89.50	90.80	7,692.2	-263.1	9,150.7	9,140.6	2.29	2.13	-0.85
16,614.0	88.40	90.80	7,693.9	-264.4	9,244.6	9,234.5	1.17	-1.17	0.00
16,708.0	88.60	90.70	7,696.4	-265.7	9,338.6	9,328.4	0.24	0.21	-0.11
16,802.0	90.70	91.70	7,696.9	-267.6	9,432.6	9,422.3	2.47	2.23	1.06
16,896.0	87.80	91.30	7,698.2	-270.1	9,526.5	9,516.1	3.11	-3.09	-0.43
16,990.0	89.30	92.20	7,700.5	-273.0	9,620.4	9,609.9	1.86	1.60	0.96
17,085.0	90.30	93.40	7,700.9	-277.6	9,715.3	9,704.7	1.64	1.05	1.26
17,109.0	90.30	93.30	7,700.7	-279.0	9,739.3	9,728.6	0.42	0.00	-0.42
17,170.0	90.30	93.30	7,700.4	-282.5	9,800.2	9,789.4	0.00	0.00	0.00

17170.0' MD Projected to Bit - PBHL Pavo Macho 31-32 B2EH Fed Com 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,170.0	7,700.4	-282.5	9,800.2	17170.0' MD Projected to Bit



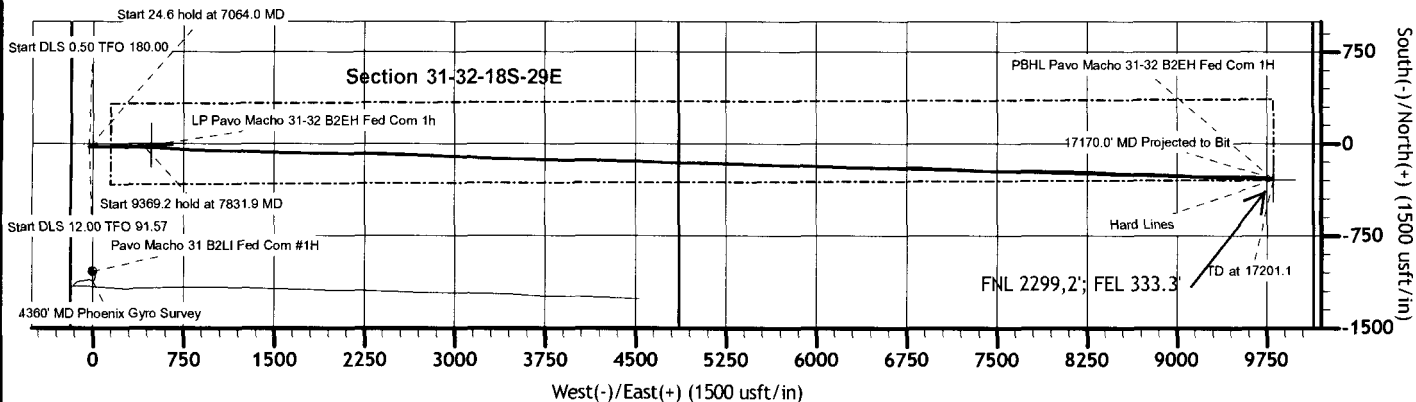
COMPANY: Mewbourne Oil Company
 WELL: Pavo Macho 31-32 B2EH Fed Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson Patterson 220



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.09°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001 3405 + 27 @ 3432.0usft (Patterson 220) GROUND ELEVATION: 3405.0										Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	620468.90	565384.20	32° 42' 20.111 N	104° 7' 14.770 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	6984.0	0.40	247.70	6983.0	-23.6	-31.4	0.00	0.00	-30.7	
2	7064.0	0.00	0.00	7063.0	-23.7	-31.6	0.50	180.00	-30.9	
3	7088.6	0.00	0.00	7087.6	-23.7	-31.6	0.00	0.00	-30.9	
4	7831.9	89.20	91.57	7565.0	-36.6	439.0	12.00	91.57	439.9	
5	17201.1	89.20	91.57	7696.0	-292.8	9803.7	0.00	0.00	9808.1	PBHL Pavo Macho 31-32 B2EH Fed Com 1H



SHL 1980' FSL; 185' FWL
 Section 31-18S-29E
 PBHL 1800' FSL; 330' FEL
 Section 31-18S-29E

