



January 4, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 05 2018

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
Pavo Macho 31-32 B2EH Federal Com #001H
Palmillo; Bone Spring, East
Eddy County, New Mexico
API# 30-015-43784

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>
Martin Pina	Original Hole	1,185ft. to 17,109ft.	11-15-17 to 12-02-17	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\Pavo Macho 31-32 B2EH Fed Com #1H\M171115

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



January 4, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

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Survey Certification Report

RECEIVED

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 November 15, 2017, through December 02, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,185 feet to a depth of 17,109 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 Pavo Macho 31-32 B2EH Federal Com #001H well, API # **30-015-43784** 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

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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-32-18S-29E Pavo Macho 31-32 B2EH-
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		System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)			
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: Easting: 565,384.20 usft Longitude: 104° 7' 14.770 W
Position Uncertainty: Map 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: 3,405.0usft

Wellbore Original Hole

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

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** (°) 88.49

Survey Program **Date** 12/4/2017
From (usft) 1,185.0 **To** (usft) 17,170.0 **Survey (Wellbore)** Survey #1 (Original Hole) **Description**



Microsoft
MWD Surveys



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
1,078.0	0.66	79.26	1,077.8	-0.7	17.9	17.9	92.21
1,185.0	0.90	74.50	1,184.8	-0.4	19.3	19.3	91.04
1,312.0	0.90	75.40	1,311.8	0.2	21.2	21.2	89.55
1,439.0	1.00	85.70	1,438.8	0.5	23.3	23.3	88.76
1,566.0	0.90	85.30	1,565.7	0.7	25.4	25.4	88.49
1,693.0	0.60	67.90	1,692.7	1.0	27.0	27.0	87.88
1,789.0	0.40	67.30	1,788.7	1.3	27.7	27.8	87.28
1,884.0	0.40	80.10	1,883.7	1.5	28.4	28.4	86.97
1,978.0	0.30	164.30	1,977.7	1.3	28.8	28.8	87.37
2,073.0	0.30	198.90	2,072.7	0.8	28.8	28.8	88.31
2,167.0	0.60	206.20	2,166.7	0.2	28.5	28.5	89.65
2,262.0	0.70	185.30	2,261.7	-0.9	28.2	28.2	91.73
2,356.0	0.70	188.40	2,355.7	-2.0	28.0	28.1	94.06
2,450.0	1.00	173.50	2,449.7	-3.4	28.1	28.3	96.86
2,544.0	0.70	198.00	2,543.7	-4.7	28.0	28.4	99.61
2,639.0	0.60	208.40	2,638.7	-5.7	27.6	28.1	101.74
2,733.0	0.80	215.20	2,732.7	-6.7	26.9	27.8	103.95
2,827.0	0.70	224.10	2,826.7	-7.6	26.2	27.3	106.28
2,922.0	0.50	242.00	2,921.7	-8.3	25.4	26.7	108.00
3,016.0	0.70	225.50	3,015.7	-8.8	24.6	26.2	109.77
3,111.0	0.40	220.80	3,110.6	-9.5	24.0	25.8	111.61
3,205.0	0.60	217.30	3,204.6	-10.1	23.5	25.6	113.37
3,300.0	0.50	230.00	3,299.6	-10.8	22.9	25.3	115.30
3,394.0	0.50	221.80	3,393.6	-11.4	22.3	25.0	117.06
3,489.0	0.50	255.90	3,488.6	-11.8	21.6	24.6	118.63
3,583.0	0.40	253.00	3,582.6	-12.0	20.9	24.1	119.85
3,677.0	0.60	284.60	3,676.6	-12.0	20.1	23.4	120.75



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TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Pavo Macho 31-32 B2EH Fed Com #1H
3405 + 27 @ 3432.0usft (Patterson 220)
3405 + 27 @ 3432.0usft (Patterson 220)
Grid
Minimum Curvature
Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
3,771.0	0.70	290.00	3,770.6	-11.6	19.1	22.3	121.38
3,866.0	0.60	281.10	3,865.6	-11.3	18.0	21.3	122.15
3,961.0	0.80	272.60	3,960.6	-11.2	16.9	20.3	123.58
4,055.0	1.10	283.00	4,054.6	-11.0	15.4	18.9	125.56
4,149.0	1.10	275.70	4,148.6	-10.7	13.6	17.3	128.20
4,244.0	1.20	265.80	4,243.6	-10.7	11.7	15.8	132.41
4,338.0	1.20	277.90	4,337.5	-10.6	9.7	14.4	137.48
4,433.0	1.30	280.70	4,432.5	-10.3	7.7	12.8	143.21
4,527.0	1.50	267.50	4,526.5	-10.1	5.4	11.5	151.91
4,622.0	1.40	260.30	4,621.5	-10.4	3.0	10.8	163.77
4,716.0	1.30	265.10	4,715.4	-10.7	0.8	10.7	175.57
4,810.0	1.20	262.90	4,809.4	-10.9	-1.2	10.9	186.37
4,905.0	1.10	267.50	4,904.4	-11.0	-3.1	11.5	195.74
4,999.0	0.80	270.60	4,998.4	-11.1	-4.7	12.0	202.87
5,093.0	0.60	250.60	5,092.4	-11.2	-5.8	12.6	207.28
5,187.0	0.60	247.60	5,186.4	-11.6	-6.7	13.4	210.09
5,281.0	0.40	268.70	5,280.4	-11.8	-7.5	14.0	212.47
5,375.0	0.70	276.10	5,374.4	-11.7	-8.4	14.4	215.60
5,470.0	1.00	299.20	5,469.3	-11.3	-9.7	14.9	220.73
5,564.0	1.50	304.90	5,563.3	-10.1	-11.4	15.3	228.36
5,659.0	1.90	306.00	5,658.3	-8.5	-13.7	16.1	238.17
5,754.0	0.60	302.70	5,753.3	-7.3	-15.4	17.1	244.59
5,848.0	0.70	290.80	5,847.3	-6.8	-16.4	17.7	247.28
5,942.0	0.90	272.50	5,941.2	-6.6	-17.6	18.8	249.44
6,037.0	1.50	239.20	6,036.2	-7.2	-19.4	20.7	249.64
6,132.0	1.70	192.80	6,131.2	-9.2	-20.8	22.8	246.10
6,226.0	2.10	214.60	6,225.1	-12.0	-22.1	25.2	241.50



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Stryker_EDM

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6,321.0	1.10	223.20	6,320.1	-14.1	-23.7	27.6	239.27
6,416.0	1.10	221.00	6,415.1	-15.5	-24.9	29.3	238.22
6,511.0	1.00	234.00	6,510.1	-16.6	-26.2	31.0	237.61
6,605.0	0.80	224.90	6,604.1	-17.6	-27.3	32.5	237.26
6,700.0	0.90	220.80	6,699.0	-18.6	-28.3	33.9	236.66
6,794.0	0.90	221.60	6,793.0	-19.7	-29.3	35.3	236.03
6,889.0	2.10	202.30	6,888.0	-21.9	-30.4	37.5	234.26
6,984.0	0.40	247.70	6,983.0	-23.6	-31.4	39.3	233.03
7,027.0	0.40	150.40	7,026.0	-23.8	-31.5	39.5	232.87
7,059.0	4.10	97.40	7,057.9	-24.1	-30.3	38.7	231.52
7,092.0	8.00	92.40	7,090.8	-24.3	-26.8	36.2	227.79
7,123.0	11.40	89.40	7,121.3	-24.4	-21.6	32.5	221.53
7,155.0	15.50	85.50	7,152.4	-24.0	-14.2	27.9	210.53
7,186.0	18.30	85.70	7,182.1	-23.3	-5.2	23.9	192.50
7,218.0	20.40	87.90	7,212.3	-22.7	5.4	23.4	166.59
7,250.0	23.80	89.70	7,241.9	-22.5	17.5	28.5	142.19
7,281.0	27.60	90.40	7,269.8	-22.5	30.9	38.2	126.07
7,313.0	29.80	92.20	7,297.9	-22.9	46.3	51.6	116.30
7,344.0	33.80	89.40	7,324.3	-23.1	62.6	66.7	110.23
7,376.0	37.80	88.70	7,350.2	-22.8	81.3	84.4	105.64
7,408.0	41.20	87.60	7,374.9	-22.1	101.6	104.0	102.26
7,439.0	44.80	87.00	7,397.6	-21.1	122.7	124.5	99.75
7,471.0	47.80	87.00	7,419.7	-19.9	145.8	147.2	97.76
7,503.0	50.60	87.20	7,440.6	-18.7	170.0	171.1	96.26
7,534.0	53.70	89.40	7,459.6	-17.9	194.5	195.3	95.27
7,566.0	57.00	91.50	7,477.8	-18.2	220.8	221.6	94.70
7,597.0	60.10	92.30	7,494.0	-19.0	247.2	248.0	94.40

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7,629.0	63.50	92.70	7,509.1	-20.3	275.4	276.2	94.21
7,660.0	67.40	92.50	7,522.0	-21.5	303.6	304.3	94.06
7,692.0	70.50	92.40	7,533.4	-22.8	333.4	334.2	93.92
7,724.0	72.80	92.50	7,543.5	-24.1	363.8	364.6	93.79
7,755.0	76.10	92.30	7,551.8	-25.4	393.6	394.4	93.69
7,787.0	80.40	91.90	7,558.3	-26.5	424.9	425.7	93.57
7,819.0	85.10	91.60	7,562.4	-27.5	456.6	457.4	93.44
7,832.0	86.30	91.60	7,563.4	-27.8	469.6	470.4	93.39
7,845.1	86.94	91.97	7,564.1	-28.3	482.6	483.4	93.35
LP Pavo Macho 31-32 B2EH Fed Com 1h							
7,918.0	90.50	94.00	7,565.8	-32.0	555.4	556.3	93.30
8,013.0	87.50	94.20	7,567.4	-38.8	650.1	651.3	93.42
8,107.0	87.70	93.60	7,571.4	-45.2	743.8	745.2	93.48
8,201.0	87.90	92.10	7,575.0	-49.9	837.7	839.1	93.41
8,296.0	88.70	91.20	7,577.8	-52.6	932.6	934.1	93.23
8,390.0	89.00	91.60	7,579.7	-54.9	1,026.5	1,028.0	93.06
8,484.0	89.40	91.60	7,581.0	-57.5	1,120.5	1,122.0	92.94
8,578.0	89.80	91.90	7,581.6	-60.4	1,214.4	1,215.9	92.85
8,673.0	89.70	93.00	7,582.1	-64.5	1,309.3	1,310.9	92.82
8,767.0	88.40	91.30	7,583.6	-68.0	1,403.3	1,404.9	92.77
8,862.0	88.20	91.90	7,586.4	-70.7	1,498.2	1,499.8	92.70
8,956.0	86.60	91.10	7,590.7	-73.1	1,592.0	1,593.7	92.63
9,051.0	88.00	90.80	7,595.2	-74.7	1,686.9	1,688.6	92.54
9,146.0	87.60	89.70	7,598.8	-75.1	1,781.8	1,783.4	92.41
9,240.0	90.50	91.30	7,600.4	-75.9	1,875.8	1,877.4	92.32
9,335.0	89.90	90.50	7,600.0	-77.4	1,970.8	1,972.3	92.25
9,429.0	89.40	90.80	7,600.6	-78.5	2,064.8	2,066.3	92.18



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9,524.0	89.80	89.90	7,601.3	-79.1	2,159.8	2,161.2	92.10
9,618.0	89.80	88.80	7,601.6	-78.0	2,253.8	2,255.1	91.98
9,713.0	88.30	92.00	7,603.2	-78.7	2,348.8	2,350.1	91.92
9,807.0	88.80	91.30	7,605.6	-81.4	2,442.7	2,444.0	91.91
9,902.0	88.80	91.80	7,607.6	-83.9	2,537.6	2,539.0	91.89
9,996.0	89.10	92.40	7,609.3	-87.4	2,631.5	2,633.0	91.90
10,090.0	88.60	92.50	7,611.2	-91.4	2,725.4	2,727.0	91.92
10,185.0	88.00	92.70	7,614.0	-95.7	2,820.3	2,821.9	91.94
10,280.0	86.50	92.50	7,618.5	-100.0	2,915.1	2,916.8	91.96
10,376.0	88.80	92.00	7,622.5	-103.8	3,010.9	3,012.7	91.97
10,472.0	91.20	93.20	7,622.5	-108.1	3,106.8	3,108.7	91.99
10,568.0	91.70	94.40	7,620.0	-114.5	3,202.6	3,204.6	92.05
10,663.0	91.20	91.70	7,617.6	-119.5	3,297.4	3,299.6	92.08
10,759.0	88.80	91.30	7,617.6	-122.1	3,393.4	3,395.6	92.06
10,854.0	89.40	91.60	7,619.1	-124.5	3,488.3	3,490.5	92.04
10,948.0	88.40	90.30	7,620.9	-126.0	3,582.3	3,584.5	92.01
11,043.0	89.30	91.00	7,622.8	-127.1	3,677.3	3,679.5	91.98
11,138.0	90.20	91.00	7,623.3	-128.7	3,772.2	3,774.4	91.95
11,232.0	89.50	91.40	7,623.5	-130.7	3,866.2	3,868.4	91.94
11,326.0	88.50	90.50	7,625.1	-132.3	3,960.2	3,962.4	91.91
11,421.0	88.40	90.10	7,627.7	-132.8	4,055.2	4,057.3	91.88
11,515.0	88.50	90.60	7,630.3	-133.3	4,149.1	4,151.3	91.84
11,610.0	90.20	91.30	7,631.3	-134.9	4,244.1	4,246.2	91.82
11,704.0	90.80	92.30	7,630.5	-137.9	4,338.0	4,340.2	91.82
11,799.0	89.20	91.00	7,630.5	-140.6	4,433.0	4,435.2	91.82
11,893.0	88.90	91.60	7,632.1	-142.7	4,527.0	4,529.2	91.81
11,988.0	90.00	92.70	7,633.0	-146.3	4,621.9	4,624.2	91.81

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Design: Original Hole

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TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Pavo Macho 31-32 B2EH Fed Com #1H
3405 + 27 @ 3432.0usft (Patterson 220)
3405 + 27 @ 3432.0usft (Patterson 220)
Grid
Minimum Curvature
Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,082.0	88.70	91.90	7,634.0	-150.1	4,715.8	4,718.2	91.82
12,176.0	87.60	91.90	7,637.1	-153.2	4,809.7	4,812.1	91.82
12,270.0	88.60	90.80	7,640.2	-155.4	4,903.6	4,906.1	91.82
12,365.0	88.50	90.40	7,642.6	-156.4	4,998.6	5,001.0	91.79
12,460.0	89.90	90.80	7,643.9	-157.4	5,093.6	5,096.0	91.77
12,555.0	89.10	91.20	7,644.8	-159.1	5,188.6	5,191.0	91.76
12,649.0	89.40	91.60	7,646.0	-161.3	5,282.5	5,285.0	91.75
12,744.0	90.20	92.00	7,646.3	-164.3	5,377.5	5,380.0	91.75
12,838.0	90.30	92.30	7,645.9	-167.9	5,471.4	5,474.0	91.76
12,932.0	91.60	91.40	7,644.4	-170.9	5,565.3	5,568.0	91.76
13,027.0	89.50	91.10	7,643.4	-173.0	5,660.3	5,662.9	91.75
13,121.0	89.40	91.10	7,644.3	-174.8	5,754.3	5,756.9	91.74
13,216.0	88.50	91.70	7,646.1	-177.1	5,849.2	5,851.9	91.73
13,310.0	88.00	91.80	7,649.0	-180.0	5,943.1	5,945.9	91.73
13,405.0	85.40	92.70	7,654.4	-183.7	6,037.9	6,040.7	91.74
13,499.0	89.30	91.80	7,658.8	-187.4	6,131.7	6,134.6	91.75
13,593.0	90.30	92.50	7,659.1	-190.9	6,225.6	6,228.6	91.76
13,688.0	91.10	90.60	7,657.9	-193.5	6,320.6	6,323.6	91.75
13,782.0	90.90	90.80	7,656.3	-194.6	6,414.6	6,417.5	91.74
13,877.0	89.20	89.90	7,656.2	-195.2	6,509.6	6,512.5	91.72
13,971.0	86.90	89.70	7,659.4	-194.9	6,603.5	6,606.4	91.69
14,066.0	90.30	90.10	7,661.7	-194.7	6,698.5	6,701.3	91.66
14,160.0	90.40	91.00	7,661.2	-195.6	6,792.5	6,795.3	91.65
14,255.0	91.00	93.50	7,660.0	-199.3	6,887.4	6,890.3	91.66
14,349.0	89.40	91.60	7,659.7	-203.5	6,981.3	6,984.2	91.67
14,443.0	87.10	92.40	7,662.5	-206.8	7,075.2	7,078.2	91.67
14,538.0	88.90	91.90	7,665.9	-210.4	7,170.0	7,173.1	91.68



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-32-18S-29E Pavo Macho 31-32 B2EH-
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

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
14,633.0	89.00	92.80	7,667.6	-214.2	7,264.9	7,268.1	91.69
14,727.0	89.70	93.60	7,668.7	-219.5	7,358.8	7,362.1	91.71
14,822.0	89.10	89.70	7,669.7	-222.2	7,453.7	7,457.0	91.71
14,916.0	89.20	90.10	7,671.1	-222.1	7,547.7	7,551.0	91.69
15,010.0	88.20	89.10	7,674.8	-221.4	7,641.6	7,644.8	91.66
15,104.0	89.80	90.80	7,678.1	-221.3	7,735.5	7,738.7	91.64
15,199.0	88.80	90.90	7,679.3	-222.7	7,830.5	7,833.7	91.63
15,293.0	90.30	91.60	7,680.0	-224.8	7,924.5	7,927.7	91.62
15,387.0	88.90	91.40	7,680.7	-227.2	8,018.5	8,021.7	91.62
15,482.0	91.30	90.80	7,680.5	-229.1	8,113.4	8,116.7	91.62
15,577.0	89.90	91.20	7,679.5	-230.7	8,208.4	8,211.7	91.61
15,671.0	88.80	91.90	7,680.6	-233.3	8,302.4	8,305.6	91.61
15,765.0	89.00	92.40	7,682.4	-236.8	8,396.3	8,399.6	91.62
15,859.0	89.20	93.50	7,683.8	-241.6	8,490.1	8,493.6	91.63
15,953.0	89.10	92.30	7,685.2	-246.4	8,584.0	8,587.6	91.64
16,048.0	90.20	91.60	7,685.8	-249.6	8,679.0	8,682.5	91.65
16,142.0	90.20	91.60	7,685.5	-252.2	8,772.9	8,776.5	91.65
16,237.0	89.90	92.30	7,685.4	-255.5	8,867.9	8,871.5	91.65
16,331.0	88.70	91.50	7,686.6	-258.6	8,961.8	8,965.5	91.65
16,426.0	87.50	91.60	7,689.7	-261.2	9,056.7	9,060.5	91.65
16,520.0	89.50	90.80	7,692.2	-263.1	9,150.7	9,154.4	91.65
16,614.0	88.40	90.80	7,693.9	-264.4	9,244.6	9,248.4	91.64
16,708.0	88.60	90.70	7,696.4	-265.7	9,338.6	9,342.4	91.63
16,802.0	90.70	91.70	7,696.9	-267.6	9,432.6	9,436.4	91.63
16,896.0	87.80	91.30	7,698.2	-270.1	9,526.5	9,530.3	91.62
16,990.0	89.30	92.20	7,700.5	-273.0	9,620.4	9,624.3	91.63
17,085.0	90.30	93.40	7,700.9	-277.6	9,715.3	9,719.3	91.64

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-32-18S-29E Pavo Macho 31-32 B2EH-
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

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,109.0	90.30	93.30	7,700.7	-279.0	9,739.3	9,743.3	91.64
17,170.0	90.30	93.30	7,700.4	-282.5	9,800.2	9,804.2	91.65

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



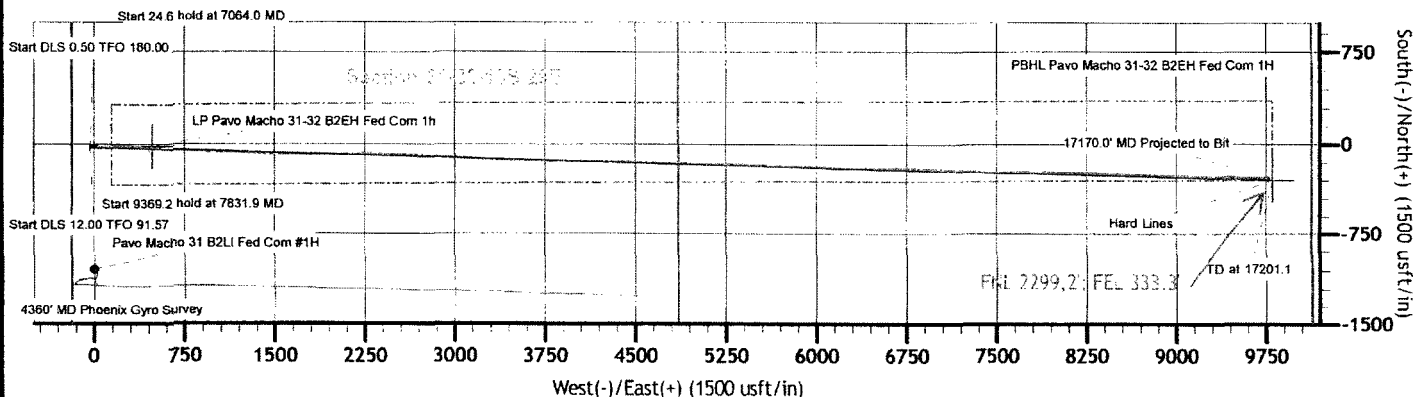
COMPANY: Mewbourne Oil Company
WELL: Pavo Macho 31-32 B2EH Fed Com #1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson Patterson 220



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

