



NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 20 2017

RECEIVED

Mewbourne Oil Company *30-015-44066*

Eddy County, New Mexico

Section 31-18S-29E Pavo Macho 31 B2LI Fed #1H

Pavo Macho 31 B2LI Fed Com #1H

Original Hole

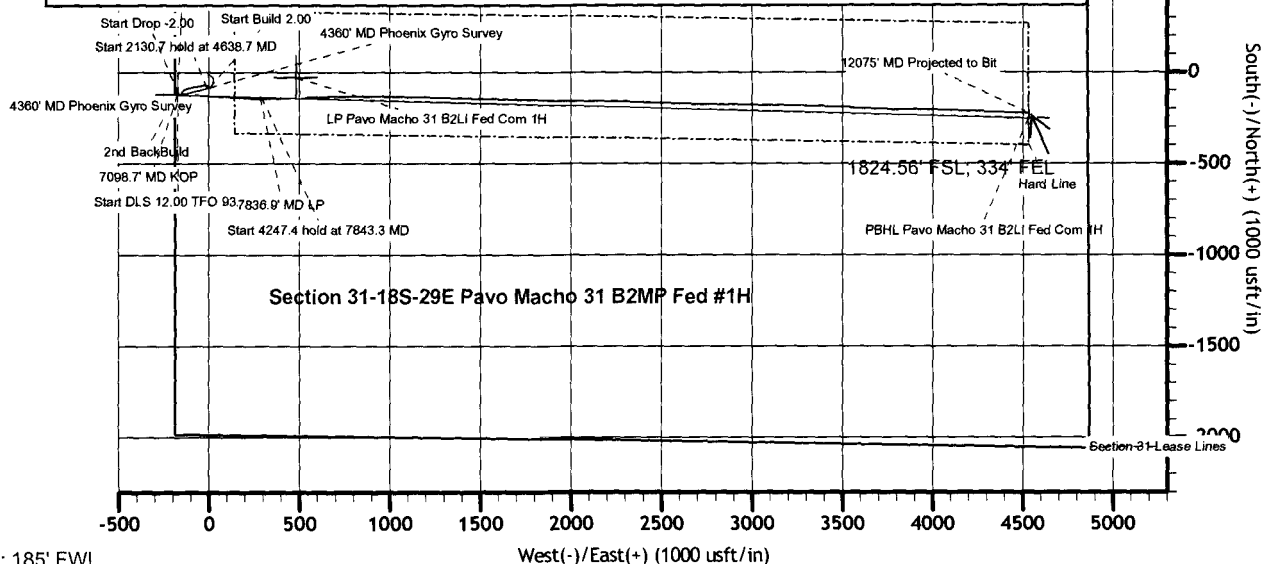
Design: Original Hole

Standard Survey Report

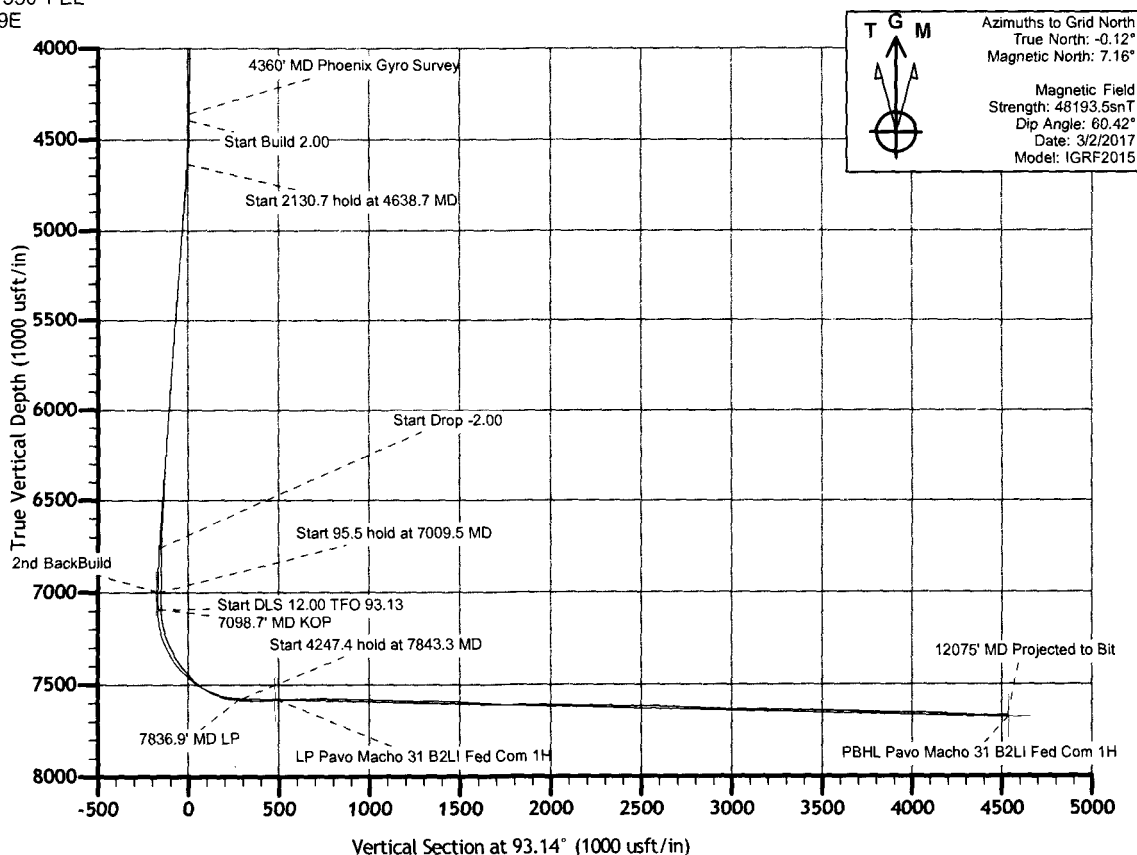
29 March, 2017



GEODETIC ZONE: New Mexico East 3001 3397 + 27 @ 3424.0usft (Patterson 250) GROUND ELEVATION: 3397.0											Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude						
0.0	0.0	619431.70	565383.30	32° 42' 9.848 N	104° 7' 14.804 W						
PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target	
1	4360.0	0.77	235.64	4358.5	-80.9	2.7	0.00	0.00	7.1		
2	4610.0	4.33	258.23	4608.2	-83.8	-7.9	1.45	27.25	-3.3		
3	6710.0	4.33	258.23	6702.2	-116.2	-163.2	0.00	0.00	-156.6		
4	7008.1	0.00	0.00	7000.0	-118.5	-174.3	1.45	180.00	-167.5		
5	7106.7	0.00	0.00	7098.7	-118.5	-174.3	0.00	0.00	-167.5		
6	7845.4	88.64	91.58	7576.0	-131.3	291.6	12.00	91.58	298.4		
7	12087.1	88.64	91.58	7677.0	-248.2	4530.6	0.00	0.00	4537.4	PBHL Pavo Macho 31 B2LI Fed Com 1H	



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





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-18S-29E Pavo Macho 31 B2LI Fed #1H
Well: Pavo Macho 31 B2LI Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31 B2LI Fed Com #1H
TVD Reference: 3397 + 27 @ 3424.0usft (Patterson 250)
MD Reference: 3397 + 27 @ 3424.0usft (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 Section 31-18S-29E Pavo Macho 31 B2LI Fed #1H

Site Position:
From: Map
Position Uncertainty: 0.0 usft
Northing: 619,431.70 usft
Easting: 565,383.30 usft
Slot Radius: 13-3/16 "
Latitude: 32° 42' 9.848 N
Longitude: 104° 7' 14.804 W
Grid Convergence: 0.11 °

Well Pavo Macho 31 B2LI Fed Com #1H

Well Position +N/-S 0.0 usft **Northing:** 619,431.70 usft **Latitude:** 32° 42' 9.848 N
+E/-W 0.0 usft **Easting:** 565,383.30 usft **Longitude:** 104° 7' 14.804 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 27.0 usft **Ground Level:** 3,397.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/2/2017	7.28	60.42	48,193.46818472

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	178.08

Survey Program Date 3/29/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	4,360.0	Phoenix Tech Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
4,445.0	12,075.0	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	0.26	155.57	100.0	-0.2	0.1	0.2	0.26	0.26	0.00
200.0	0.26	243.69	200.0	-0.5	0.0	0.5	0.36	0.00	88.12
300.0	0.77	165.56	300.0	-1.3	-0.1	1.3	0.76	0.51	-78.13
400.0	1.10	161.04	400.0	-2.8	0.4	2.8	0.34	0.33	-4.52
500.0	1.17	153.59	500.0	-4.6	1.2	4.7	0.16	0.07	-7.45
600.0	1.39	123.59	599.9	-6.2	2.7	6.3	0.70	0.22	-30.00
700.0	1.60	113.70	699.9	-7.5	4.9	7.6	0.33	0.21	-9.89
800.0	1.61	118.34	799.9	-8.7	7.5	8.9	0.13	0.01	4.64

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-18S-29E Pavo Macho 31 B2LI Fed #1H
Well: Pavo Macho 31 B2LI Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31 B2LI Fed Com #1H
TVD Reference: 3397 + 27 @ 3424.0usft (Patterson 250)
MD Reference: 3397 + 27 @ 3424.0usft (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)
900.0	1.53	119.94	899.8	-10.0	9.9	10.3	0.09	-0.08	1.60
1,000.0	1.43	116.74	999.8	-11.3	12.1	11.7	0.13	-0.10	-3.20
1,100.0	1.39	123.74	1,099.8	-12.5	14.2	13.0	0.18	-0.04	7.00
1,200.0	1.43	134.82	1,199.7	-14.0	16.1	14.6	0.28	0.04	11.08
1,300.0	1.61	122.48	1,299.7	-15.7	18.2	16.3	0.37	0.18	-12.34
1,400.0	1.25	127.09	1,399.7	-17.1	20.3	17.8	0.38	-0.36	4.61
1,500.0	1.04	134.05	1,499.6	-18.4	21.8	19.1	0.25	-0.21	6.96
1,600.0	0.80	138.49	1,599.6	-19.5	22.9	20.3	0.25	-0.24	4.44
1,700.0	0.78	140.00	1,699.6	-20.6	23.8	21.4	0.03	-0.02	1.51
1,800.0	0.85	147.27	1,799.6	-21.7	24.6	22.5	0.12	0.07	7.27
1,900.0	0.89	158.71	1,899.6	-23.1	25.3	23.9	0.18	0.04	11.44
2,000.0	0.93	162.15	1,999.6	-24.6	25.9	25.4	0.07	0.04	3.44
2,100.0	1.16	170.83	2,099.6	-26.3	26.3	27.2	0.28	0.23	8.68
2,200.0	1.15	175.19	2,199.6	-28.3	26.5	29.2	0.09	-0.01	4.36
2,300.0	1.24	181.77	2,299.5	-30.4	26.6	31.3	0.16	0.09	6.58
2,400.0	1.26	181.91	2,399.5	-32.6	26.5	33.5	0.02	0.02	0.14
2,500.0	1.58	172.99	2,499.5	-35.1	26.6	35.9	0.39	0.32	-8.92
2,600.0	1.39	183.31	2,599.4	-37.6	26.7	38.5	0.33	-0.19	10.32
2,700.0	1.19	194.03	2,699.4	-39.9	26.4	40.7	0.31	-0.20	10.72
2,800.0	1.23	199.94	2,799.4	-41.9	25.8	42.7	0.13	0.04	5.91
2,900.0	1.59	194.22	2,899.4	-44.2	25.1	45.0	0.39	0.36	-5.72
3,000.0	1.69	198.40	2,999.3	-47.0	24.3	47.8	0.16	0.10	4.18
3,100.0	2.24	196.08	3,099.3	-50.3	23.3	51.0	0.56	0.55	-2.32
3,200.0	2.66	197.24	3,199.2	-54.3	22.0	55.1	0.42	0.42	1.16
3,300.0	2.89	202.60	3,299.1	-58.9	20.4	59.5	0.35	0.23	5.36
3,400.0	3.22	205.06	3,398.9	-63.8	18.2	64.3	0.36	0.33	2.46
3,500.0	2.94	206.05	3,498.8	-68.6	15.9	69.1	0.28	-0.28	0.99
3,600.0	2.32	212.82	3,598.7	-72.6	13.7	73.0	0.69	-0.62	6.77
3,700.0	1.81	215.36	3,698.6	-75.6	11.7	76.0	0.52	-0.51	2.54
3,800.0	1.33	226.65	3,798.6	-77.7	9.9	78.0	0.57	-0.48	11.29
3,900.0	0.89	232.48	3,898.5	-79.0	8.5	79.2	0.45	-0.44	5.83
4,000.0	0.99	254.43	3,998.5	-79.7	7.0	79.9	0.37	0.10	21.95
4,100.0	0.59	250.65	4,098.5	-80.1	5.7	80.2	0.40	-0.40	-3.78
4,200.0	0.69	259.05	4,198.5	-80.3	4.6	80.5	0.14	0.10	8.40
4,300.0	0.71	257.49	4,298.5	-80.6	3.4	80.7	0.03	0.02	-1.56
4,360.0	0.77	235.64	4,358.5	-80.9	2.7	81.0	0.48	0.10	-36.42
4360' MD Phoenix Gyro Survey									
4,445.0	0.80	251.80	4,443.5	-81.4	1.7	81.4	0.26	0.04	19.01
4,539.0	2.80	307.00	4,537.4	-80.2	-0.8	80.2	2.59	2.13	58.72
4,632.0	5.50	304.80	4,630.2	-76.3	-6.2	76.1	2.91	2.90	-2.37
4,725.0	4.70	303.80	4,722.8	-71.7	-13.1	71.2	0.87	-0.86	-1.08
4,819.0	5.10	280.80	4,816.5	-68.7	-20.4	68.0	2.12	0.43	-24.47

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-18S-29E Pavo Macho 31 B2LI Fed #1H
Well: Pavo Macho 31 B2LI Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31 B2LI Fed Com #1H
TVD Reference: 3397 + 27 @ 3424.0usft (Patterson 250)
MD Reference: 3397 + 27 @ 3424.0usft (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)
4,912.0	4.70	259.00	4,909.2	-68.7	-28.2	67.7	2.03	-0.43	-23.44
5,006.0	4.50	257.90	5,002.9	-70.2	-35.6	69.0	0.23	-0.21	-1.17
5,099.0	4.60	257.50	5,095.6	-71.8	-42.8	70.3	0.11	0.11	-0.43
5,193.0	4.50	261.20	5,189.3	-73.1	-50.1	71.4	0.33	-0.11	3.94
5,287.0	4.30	258.40	5,283.0	-74.4	-57.2	72.5	0.31	-0.21	-2.98
5,380.0	4.00	263.30	5,375.7	-75.5	-63.8	73.3	0.50	-0.32	5.27
5,474.0	3.90	264.90	5,469.5	-76.2	-70.3	73.8	0.16	-0.11	1.70
5,567.0	5.10	272.40	5,562.2	-76.3	-77.6	73.6	1.43	1.29	8.06
5,661.0	4.60	254.90	5,655.9	-77.1	-85.4	74.2	1.65	-0.53	-18.62
5,754.0	4.00	254.70	5,748.6	-78.9	-92.1	75.8	0.65	-0.65	-0.22
5,848.0	3.40	259.60	5,842.4	-80.3	-98.0	76.9	0.72	-0.64	5.21
5,941.0	4.70	258.30	5,935.2	-81.5	-104.4	78.0	1.40	1.40	-1.40
6,035.0	4.00	262.10	6,028.9	-82.8	-111.5	79.0	0.80	-0.74	4.04
6,128.0	5.20	253.40	6,121.6	-84.4	-118.7	80.4	1.49	1.29	-9.35
6,222.0	5.10	244.40	6,215.3	-87.5	-126.6	83.2	0.87	-0.11	-9.57
6,316.0	4.40	233.90	6,308.9	-91.4	-133.2	86.9	1.18	-0.74	-11.17
6,409.0	4.60	230.20	6,401.7	-95.9	-139.0	91.2	0.38	0.22	-3.98
6,503.0	3.90	215.10	6,495.4	-100.9	-143.7	96.0	1.40	-0.74	-16.06
6,596.0	4.00	234.10	6,588.2	-105.4	-148.2	100.4	1.40	0.11	20.43
6,690.0	4.10	226.30	6,681.9	-109.6	-153.3	104.4	0.60	0.11	-8.30
6,783.0	2.10	215.60	6,774.8	-113.3	-156.7	108.0	2.23	-2.15	-11.51
6,877.0	2.00	196.50	6,868.7	-116.3	-158.1	110.9	0.73	-0.11	-20.32
6,955.0	1.10	175.60	6,946.7	-118.3	-158.5	113.0	1.34	-1.15	-26.79
6,990.0	0.90	187.90	6,981.7	-118.9	-158.5	113.6	0.84	-0.57	35.14
7,005.8	0.96	185.42	6,997.6	-119.2	-158.5	113.8	0.48	0.41	-15.68
Back Build Pavo Macho 31 B2LI Fed Com 1H									
7,008.3	0.97	185.06	7,000.0	-119.2	-158.5	113.9	0.48	0.41	-14.48
2nd BackBuild									
7,084.0	1.30	176.90	7,075.7	-120.7	-158.5	115.4	0.48	0.43	-10.78
7,115.0	3.30	119.70	7,106.7	-121.5	-157.7	116.2	9.08	6.45	-184.52
7,146.0	6.60	100.00	7,137.6	-122.3	-155.2	117.0	11.82	10.65	-63.55
7,177.0	9.80	89.10	7,168.2	-122.6	-150.8	117.4	11.43	10.32	-35.16
7,208.0	14.30	81.40	7,198.5	-121.9	-144.4	117.0	15.38	14.52	-24.84
7,240.0	17.60	80.50	7,229.3	-120.6	-135.7	115.9	10.34	10.31	-2.81
7,271.0	20.90	83.30	7,258.6	-119.1	-125.6	114.9	11.05	10.65	9.03
7,302.0	23.70	88.10	7,287.3	-118.3	-113.8	114.4	10.77	9.03	15.48
7,333.0	27.30	89.70	7,315.2	-118.0	-100.5	114.6	11.82	11.61	5.16
7,364.0	29.90	91.70	7,342.4	-118.2	-85.7	115.3	8.94	8.39	6.45
7,396.0	33.00	94.70	7,369.7	-119.2	-69.0	116.8	10.85	9.69	9.38
7,427.0	35.60	96.10	7,395.4	-120.8	-51.6	119.0	8.76	8.39	4.52
7,458.0	38.70	95.70	7,420.1	-122.8	-33.0	121.6	10.03	10.00	-1.29
7,489.0	42.90	95.40	7,443.5	-124.7	-12.8	124.2	13.56	13.55	-0.97
7,520.0	46.00	94.90	7,465.6	-126.7	8.8	126.9	10.06	10.00	-1.61

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-18S-29E Pavo Macho 31 B2LI Fed #1H
Well: Pavo Macho 31 B2LI Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31 B2LI Fed Com #1H
TVD Reference: 3397 + 27 @ 3424.0usft (Patterson 250)
MD Reference: 3397 + 27 @ 3424.0usft (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)
7,552.0	49.40	94.10	7,487.2	-128.5	32.4	129.5	10.78	10.63	-2.50
7,583.0	53.70	93.40	7,506.5	-130.1	56.6	131.9	13.98	13.87	-2.26
7,614.0	57.50	93.40	7,524.0	-131.6	82.1	134.3	12.26	12.26	0.00
7,645.0	61.80	92.90	7,539.6	-133.1	108.8	136.7	13.94	13.87	-1.61
7,676.0	65.50	93.10	7,553.4	-134.5	136.6	139.0	11.95	11.94	0.65
7,707.0	70.60	93.40	7,565.0	-136.2	165.3	141.6	16.48	16.45	0.97
7,738.0	75.40	94.00	7,574.0	-138.1	194.8	144.5	15.59	15.48	1.94
7,772.0	80.70	94.30	7,581.1	-140.5	228.0	148.1	15.61	15.59	0.88
7,891.0	91.20	87.80	7,589.5	-142.6	346.4	154.2	10.37	8.82	-5.46
7,984.0	91.70	87.10	7,587.1	-138.5	439.3	153.1	0.92	0.54	-0.75
8,029.7	91.94	87.59	7,585.7	-136.4	485.0	152.6	1.19	0.53	1.06
LP Pavo Macho 31 B2LI Fed Com 1H									
8,078.0	92.20	88.10	7,583.9	-134.5	533.2	152.4	1.19	0.53	1.06
8,171.0	92.80	88.60	7,579.9	-131.9	626.1	152.8	0.84	0.65	0.54
8,265.0	89.70	89.80	7,577.8	-130.6	720.0	154.7	3.54	-3.30	1.28
8,358.0	88.60	90.20	7,579.2	-130.6	813.0	157.8	1.26	-1.18	0.43
8,452.0	88.90	89.90	7,581.2	-130.6	907.0	161.0	0.45	0.32	-0.32
8,545.0	88.60	90.40	7,583.3	-130.9	1,000.0	164.4	0.63	-0.32	0.54
8,639.0	87.60	91.30	7,586.4	-132.3	1,093.9	168.9	1.43	-1.06	0.96
8,732.0	88.70	91.40	7,589.4	-134.5	1,186.8	174.2	1.19	1.18	0.11
8,826.0	88.80	91.30	7,591.4	-136.7	1,280.8	179.6	0.15	0.11	-0.11
8,919.0	89.90	91.70	7,592.5	-139.1	1,373.7	185.2	1.26	1.18	0.43
9,013.0	87.30	92.20	7,594.8	-142.3	1,467.6	191.5	2.82	-2.77	0.53
9,106.0	86.50	91.30	7,599.8	-145.1	1,560.5	197.5	1.29	-0.86	-0.97
9,200.0	86.00	90.90	7,606.0	-146.9	1,654.2	202.4	0.68	-0.53	-0.43
9,293.0	89.00	91.20	7,610.0	-148.6	1,747.1	207.2	3.24	3.23	0.32
9,387.0	89.80	91.60	7,611.0	-150.9	1,841.1	212.7	0.95	0.85	0.43
9,480.0	90.00	92.30	7,611.2	-154.1	1,934.0	219.0	0.78	0.22	0.75
9,574.0	88.80	90.70	7,612.1	-156.6	2,028.0	224.6	2.13	-1.28	-1.70
9,667.0	89.00	89.90	7,613.9	-157.1	2,121.0	228.2	0.89	0.22	-0.86
9,760.0	89.30	90.40	7,615.3	-157.3	2,214.0	231.5	0.63	0.32	0.54
9,854.0	89.10	92.40	7,616.6	-159.6	2,307.9	237.0	2.14	-0.21	2.13
9,948.0	89.10	91.80	7,618.1	-163.0	2,401.8	243.6	0.64	0.00	-0.64
10,041.0	90.30	91.80	7,618.6	-166.0	2,494.8	249.6	1.29	1.29	0.00
10,135.0	88.90	92.10	7,619.2	-169.2	2,588.7	256.0	1.52	-1.49	0.32
10,228.0	87.00	92.40	7,622.6	-172.8	2,681.6	262.7	2.07	-2.04	0.32
10,322.0	86.90	90.80	7,627.6	-175.4	2,775.4	268.5	1.70	-0.11	-1.70
10,416.0	86.50	89.90	7,633.0	-176.0	2,869.3	272.2	1.05	-0.43	-0.96
10,509.0	89.10	90.70	7,636.6	-176.5	2,962.2	275.8	2.92	2.80	0.86
10,603.0	90.50	91.00	7,636.9	-177.9	3,056.2	280.4	1.52	1.49	0.32
10,696.0	88.90	91.40	7,637.4	-179.8	3,149.2	285.5	1.77	-1.72	0.43
10,790.0	88.50	90.10	7,639.5	-181.1	3,243.1	289.9	1.45	-0.43	-1.38
10,883.0	89.20	92.20	7,641.4	-182.9	3,336.1	294.8	2.38	0.75	2.26

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 31-18S-29E Pavo Macho 31 B2LI Fed #1H
Well: Pavo Macho 31 B2LI Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Pavo Macho 31 B2LI Fed Com #1H
TVD Reference: 3397 + 27 @ 3424.0usft (Patterson 250)
MD Reference: 3397 + 27 @ 3424.0usft (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)
10,977.0	89.10	91.60	7,642.8	-186.0	3,430.0	301.1	0.65	-0.11	-0.64
11,070.0	89.40	93.70	7,644.0	-190.3	3,522.9	308.5	2.28	0.32	2.26
11,164.0	87.70	93.60	7,646.4	-196.3	3,616.7	317.6	1.81	-1.81	-0.11
11,257.0	88.00	91.30	7,649.9	-200.3	3,709.5	324.7	2.49	0.32	-2.47
11,350.0	88.00	90.70	7,653.1	-201.9	3,802.4	329.5	0.64	0.00	-0.65
11,444.0	89.00	90.70	7,655.6	-203.1	3,896.4	333.8	1.06	1.06	0.00
11,538.0	89.70	91.00	7,656.6	-204.5	3,990.4	338.3	0.81	0.74	0.32
11,632.0	88.70	92.00	7,657.9	-206.9	4,084.3	343.9	1.50	-1.06	1.06
11,725.0	87.00	92.50	7,661.4	-210.6	4,177.2	350.7	1.91	-1.83	0.54
11,819.0	85.90	92.30	7,667.2	-214.5	4,270.9	357.8	1.19	-1.17	-0.21
11,912.0	89.20	92.20	7,671.2	-218.1	4,363.8	364.5	3.55	3.55	-0.11
12,011.0	90.50	91.40	7,671.5	-221.3	4,462.7	371.0	1.54	1.31	-0.81
12,075.0	90.50	91.40	7,670.9	-222.8	4,526.7	374.7	0.00	0.00	0.00

12075' MD Projected to Bit - PBHL Pavo Macho 31 B2LI Fed Com 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
4,360.0	4,358.5	-80.9	2.7	4360' MD Phoenix Gyro Survey
12,075.0	7,670.9	-222.8	4,526.7	12075' MD Projected to Bit



May 16, 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 March 20, 2017, through March 30, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 4.445 feet to a depth of 12,011 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 B2LI Federal Com #001H well, API # **30-015-44066** 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