



RECEIVED

MAR 15 2019

DISTRICT II-ARTESIA O.C.D.

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co

Pavo Frio 29 30 B2FE Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

16 January, 2019

STRYKER
DIRECTIONAL

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co		
Site Position:		Northing:	625,719.90 usft
From:	Map	Easting:	613,854.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 43' 11.721 N
		Longitude:	104° 5' 51.140 W
		Grid Convergence:	0.13 °

Well	Pavo Frio 29 30 B2FE Fed Com 1H		
Well Position	+N/-S	0.0 usft	Northing: 625,719.90 usft
	+E/-W	0.0 usft	Easting: 613,854.20 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 43' 11.721 N
		Longitude:	104° 5' 51.140 W
		Ground Level:	3,480.0 usft

Wellbore	Original Hole		
-----------------	---------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/08/18	7.09	60.41	48,031.32565992

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	39.35

Survey Program	Date 01/16/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
200.0	14,825.0	Survey #1 (Original Hole)	

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)
100.0	0.18	32.59	100.0	0.1	0.1	0.2	0.00	0.00	0.00
200.0	1.02	348.22	200.0	1.1	0.0	0.9	0.90	0.84	-44.37
300.0	2.75	26.64	299.9	4.1	0.9	3.8	2.05	1.73	38.42
400.0	3.39	37.34	399.8	8.6	3.7	9.1	0.86	0.64	10.70
500.0	3.35	43.69	499.6	13.1	7.6	14.9	0.38	-0.04	6.35
600.0	3.37	53.45	599.5	17.0	11.9	20.7	0.57	0.02	9.76
700.0	3.61	62.04	699.3	20.2	17.1	26.4	0.57	0.24	8.59
800.0	4.14	61.30	799.0	23.4	23.0	32.7	0.53	0.53	-0.74
900.0	3.98	60.69	898.8	26.8	29.2	39.3	0.17	-0.16	-0.61
1,000.0	4.03	56.47	998.5	30.5	35.2	45.9	0.30	0.05	-4.22

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 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)
1,100.0	4.30	53.41	1,098.3	34.7	41.1	52.9	0.35	0.27	-3.06
1,221.0	4.60	58.40	1,218.9	39.9	48.9	61.9	0.40	0.25	4.12
1,410.0	2.90	161.50	1,407.7	39.3	56.9	66.5	3.16	-0.90	54.55
1,599.0	0.40	118.80	1,596.6	34.5	59.0	64.1	1.39	-1.32	-22.59
1,791.0	0.70	78.70	1,788.6	34.4	60.7	65.1	0.25	0.16	-20.89
1,980.0	1.00	112.70	1,977.5	34.0	63.4	66.4	0.30	0.16	17.99
2,170.0	0.80	146.90	2,167.5	32.2	65.6	66.5	0.30	-0.11	18.00
2,359.0	1.10	137.70	2,356.5	29.8	67.5	65.9	0.18	0.16	-4.87
2,548.0	0.90	160.30	2,545.5	27.0	69.3	64.8	0.23	-0.11	11.96
2,737.0	1.10	152.90	2,734.4	24.0	70.6	63.3	0.13	0.11	-3.92
2,927.0	1.00	133.40	2,924.4	21.3	72.6	62.5	0.19	-0.05	-10.26
3,116.0	0.80	19.30	3,113.4	21.4	74.3	63.6	0.80	-0.11	-60.37
3,210.0	1.90	356.70	3,207.4	23.6	74.4	65.4	1.28	1.17	-24.04
3,305.0	1.70	358.40	3,302.3	26.5	74.3	67.6	0.22	-0.21	1.79
3,400.0	3.00	317.40	3,397.2	29.8	72.5	69.0	2.15	1.37	-43.16
3,495.0	2.90	323.70	3,492.1	33.5	69.4	70.0	0.36	-0.11	6.63
3,590.0	2.90	295.00	3,587.0	36.5	65.8	70.0	1.51	0.00	-30.21
3,684.0	3.20	280.20	3,680.9	38.0	61.1	68.1	0.89	0.32	-15.74
3,779.0	3.00	281.20	3,775.7	38.9	56.1	65.6	0.22	-0.21	1.05
3,874.0	3.10	276.70	3,870.6	39.7	51.1	63.1	0.27	0.11	-4.74
3,968.0	3.10	280.10	3,964.5	40.4	46.0	60.5	0.20	0.00	3.62
4,063.0	2.90	246.00	4,059.3	39.9	41.3	57.1	1.86	-0.21	-35.89
4,158.0	3.20	250.90	4,154.2	38.1	36.6	52.7	0.42	0.32	5.16
4,252.0	3.30	247.50	4,248.0	36.2	31.6	48.0	0.23	0.11	-3.62
4,347.0	2.50	225.80	4,342.9	33.7	27.6	43.6	1.42	-0.84	-22.84
4,441.0	2.50	199.70	4,436.8	30.3	25.5	39.6	1.20	0.00	-27.77
4,536.0	2.40	193.50	4,531.8	26.4	24.3	35.9	0.30	-0.11	-6.53
4,630.0	2.50	198.20	4,625.7	22.6	23.2	32.2	0.24	0.11	5.00
4,725.0	2.50	192.70	4,720.6	18.6	22.1	28.4	0.25	0.00	-5.79
4,820.0	2.50	195.00	4,815.5	14.6	21.1	24.6	0.11	0.00	2.42
4,914.0	2.50	229.40	4,909.4	11.3	19.0	20.8	1.57	0.00	36.60
5,009.0	2.20	219.90	5,004.3	8.5	16.3	16.9	0.52	-0.32	-10.00
5,104.0	2.30	224.00	5,099.3	5.7	13.8	13.2	0.20	0.11	4.32
5,198.0	2.00	218.90	5,193.2	3.1	11.4	9.6	0.38	-0.32	-5.43
5,293.0	2.30	230.00	5,288.1	0.6	8.9	6.1	0.54	0.32	11.68
5,388.0	1.80	240.10	5,383.1	-1.4	6.2	2.8	0.65	-0.53	10.63
5,486.0	2.10	239.80	5,481.0	-3.1	3.3	-0.3	0.31	0.31	-0.31
5,580.0	1.20	239.40	5,575.0	-4.4	1.0	-2.8	0.96	-0.96	-0.43
5,675.0	1.50	242.00	5,669.9	-5.5	-1.0	-4.9	0.32	0.32	2.74
5,770.0	1.80	254.40	5,764.9	-6.5	-3.5	-7.3	0.49	0.32	13.05
5,865.0	2.00	252.80	5,859.8	-7.4	-6.6	-9.9	0.22	0.21	-1.68
5,959.0	1.20	306.50	5,953.8	-7.3	-8.9	-11.3	1.71	-0.85	57.13

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 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)
6,054.0	1.50	307.20	6,048.8	-5.9	-10.7	-11.4	0.32	0.32	0.74
6,148.0	1.60	284.40	6,142.8	-4.9	-13.0	-12.0	0.66	0.11	-24.26
6,243.0	1.70	290.40	6,237.7	-4.1	-15.6	-13.0	0.21	0.11	6.32
6,338.0	1.10	325.70	6,332.7	-2.8	-17.4	-13.2	1.08	-0.63	37.16
6,432.0	0.40	324.80	6,426.7	-1.8	-18.1	-12.9	0.74	-0.74	-0.96
6,527.0	0.40	317.20	6,521.7	-1.3	-18.5	-12.7	0.06	0.00	-8.00
6,621.0	0.60	271.00	6,615.7	-1.0	-19.2	-13.0	0.46	0.21	-49.15
6,716.0	0.50	265.40	6,710.7	-1.1	-20.1	-13.6	0.12	-0.11	-5.89
6,810.0	0.70	273.90	6,804.7	-1.0	-21.1	-14.2	0.23	0.21	9.04
6,905.0	1.20	222.90	6,899.6	-1.7	-22.4	-15.5	0.98	0.53	-53.68
7,000.0	1.50	220.00	6,994.6	-3.4	-23.8	-17.8	0.32	0.32	-3.05
7,094.0	0.60	228.70	7,088.6	-4.7	-25.0	-19.5	0.97	-0.96	9.26
7,146.0	0.70	255.90	7,140.6	-4.9	-25.5	-20.0	0.62	0.19	52.31
7,214.0	<u>3.30</u>	270.40	7,208.6	<u>-5.0</u>	-27.9	-21.6	3.86	3.82	21.32
7,245.0	7.30	274.30	7,239.4	-4.9	-30.7	-23.3	12.95	12.90	12.58
7,277.0	12.00	273.80	7,271.0	-4.5	-36.1	-26.4	14.69	14.69	-1.56
7,308.0	15.70	273.10	7,301.0	-4.1	-43.5	-30.7	11.95	11.94	-2.26
7,340.0	18.50	272.00	7,331.6	-3.7	-52.9	-36.4	8.81	8.75	-3.44
7,372.0	21.10	271.00	7,361.7	-3.4	-63.7	-43.0	8.19	8.13	-3.13
7,403.0	24.00	268.90	7,390.4	-3.4	-75.6	-50.6	9.71	9.35	-6.77
7,435.0	27.30	267.50	7,419.2	-3.8	-89.5	-59.7	10.48	10.31	-4.38
7,466.0	31.00	267.40	7,446.3	-4.5	-104.5	-69.8	11.94	11.94	-0.32
7,498.0	33.70	268.30	7,473.3	-5.2	-121.6	-81.1	8.57	8.44	2.81
7,530.0	36.40	268.00	7,499.5	-5.7	-140.0	-93.2	8.45	8.44	-0.94
7,561.0	40.50	268.10	7,523.8	-6.4	-159.3	-105.9	13.23	13.23	0.32
7,593.0	43.50	267.50	7,547.6	-7.2	-180.7	-120.1	9.46	9.38	-1.88
7,624.0	46.70	267.30	7,569.4	-8.2	-202.6	-134.8	10.33	10.32	-0.65
7,656.0	50.60	268.00	7,590.6	-9.2	-226.6	-150.8	12.30	12.19	2.19
7,657.8	50.80	268.06	7,591.7	-9.3	-228.0	-151.7	11.57	11.23	3.60
LP Pavo Frio 29-30 B2FE Fed Com 1H									
7,688.0	54.20	269.10	7,610.1	-9.8	-251.9	-167.3	11.57	11.25	3.43
7,719.0	57.90	269.90	7,627.4	-10.1	-277.6	-183.8	12.13	11.94	2.58
7,751.0	62.40	270.60	7,643.3	-9.9	-305.4	-201.3	14.19	14.06	2.19
7,782.0	65.90	270.60	7,656.8	-9.6	-333.3	-218.8	11.29	11.29	0.00
7,814.0	68.90	270.40	7,669.1	-9.4	-362.8	-237.3	9.39	9.38	-0.63
7,846.0	72.20	269.00	7,679.8	-9.5	-393.0	-256.5	11.11	10.31	-4.38
7,877.0	75.30	268.80	7,688.5	-10.1	-422.7	-275.9	10.02	10.00	-0.65
7,909.0	78.60	268.40	7,695.7	-10.9	-453.9	-296.2	10.38	10.31	-1.25
7,940.0	82.80	268.50	7,700.7	-11.7	-484.5	-316.2	13.55	13.55	0.32
7,972.0	85.70	268.70	7,703.9	-12.5	-516.3	-337.0	9.08	9.06	0.63
7,986.0	86.50	268.60	7,704.9	-12.8	-530.3	-346.1	5.76	5.71	-0.71
8,066.0	90.20	271.80	7,707.2	-12.5	-610.2	-396.6	6.11	4.63	4.00
8,161.0	90.20	269.50	7,706.8	-11.5	-705.2	-456.0	2.42	0.00	-2.42

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 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)
8,255.0	91.10	269.20	7,705.8	-12.5	-799.2	-516.4	1.01	0.96	-0.32
8,350.0	92.40	269.20	7,702.9	-13.8	-894.1	-577.6	1.37	1.37	0.00
8,445.0	88.70	268.80	7,701.9	-15.5	-989.1	-639.1	3.92	-3.89	-0.42
8,540.0	86.60	267.90	7,705.8	-18.2	-1,084.0	-701.4	2.40	-2.21	-0.95
8,634.0	89.20	272.00	7,709.3	-18.3	-1,177.9	-761.0	5.16	2.77	4.36
8,729.0	92.20	272.90	7,708.1	-14.3	-1,272.8	-818.0	3.30	3.16	0.95
8,823.0	90.20	273.20	7,706.2	-9.3	-1,366.6	-873.6	2.15	-2.13	0.32
8,918.0	92.60	272.70	7,703.8	-4.4	-1,461.4	-930.0	2.58	2.53	-0.53
9,013.0	91.20	272.60	7,700.7	0.0	-1,556.3	-986.7	1.48	-1.47	-0.11
9,108.0	93.10	272.90	7,697.1	4.6	-1,651.1	-1,043.3	2.02	2.00	0.32
9,202.0	93.20	273.90	7,692.0	10.1	-1,744.8	-1,098.4	1.07	0.11	1.06
9,297.0	91.40	273.20	7,688.1	16.0	-1,839.5	-1,153.9	2.03	-1.89	-0.74
9,391.0	90.10	270.60	7,686.9	19.1	-1,933.5	-1,211.1	3.09	-1.38	-2.77
9,486.0	90.40	272.00	7,686.5	21.3	-2,028.4	-1,269.6	1.51	0.32	1.47
9,580.0	86.70	270.40	7,688.9	23.3	-2,122.4	-1,327.6	4.29	-3.94	-1.70
9,675.0	84.90	269.80	7,695.8	23.4	-2,217.1	-1,387.6	2.00	-1.89	-0.63
9,769.0	91.60	266.90	7,698.7	20.7	-2,311.0	-1,449.2	7.77	7.13	-3.09
9,864.0	92.70	267.90	7,695.1	16.4	-2,405.8	-1,512.6	1.56	1.16	1.05
9,958.0	92.60	267.90	7,690.8	13.0	-2,499.6	-1,574.8	0.11	-0.11	0.00
10,053.0	89.50	268.10	7,689.1	9.7	-2,594.6	-1,637.5	3.27	-3.26	0.21
10,148.0	87.00	268.50	7,692.0	6.8	-2,689.5	-1,699.9	2.67	-2.63	0.42
10,242.0	89.30	268.20	7,695.0	4.1	-2,783.4	-1,761.5	2.47	2.45	-0.32
10,337.0	92.10	266.50	7,693.8	-0.3	-2,878.2	-1,825.1	3.45	2.95	-1.79
10,432.0	92.60	267.10	7,689.9	-5.6	-2,973.0	-1,889.2	0.82	0.53	0.63
10,526.0	89.90	265.60	7,687.9	-11.5	-3,066.8	-1,953.3	3.29	-2.87	-1.60
10,621.0	90.60	268.20	7,687.5	-16.7	-3,161.6	-2,017.4	2.83	0.74	2.74
10,716.0	89.80	268.00	7,687.1	-19.8	-3,256.6	-2,080.1	0.87	-0.84	-0.21
10,810.0	91.00	269.00	7,686.5	-22.3	-3,350.5	-2,141.5	1.66	1.28	1.06
10,905.0	92.30	270.90	7,683.7	-22.4	-3,445.5	-2,201.8	2.42	1.37	2.00
11,000.0	91.20	271.20	7,680.8	-20.6	-3,540.4	-2,260.7	1.20	-1.16	0.32
11,093.0	92.20	270.30	7,678.1	-19.4	-3,633.4	-2,318.6	1.45	1.08	-0.97
11,188.0	92.80	270.90	7,673.9	-18.4	-3,728.3	-2,378.0	0.89	0.63	0.63
11,282.0	93.50	271.20	7,668.8	-16.7	-3,822.1	-2,436.2	0.81	0.74	0.32
11,378.0	92.20	272.00	7,664.0	-14.0	-3,918.0	-2,494.9	1.59	-1.35	0.83
11,472.0	91.70	272.20	7,660.8	-10.6	-4,011.9	-2,551.8	0.57	-0.53	0.21
11,567.0	90.50	272.00	7,659.0	-7.1	-4,106.8	-2,609.3	1.28	-1.26	-0.21
11,661.0	90.20	271.70	7,658.4	-4.1	-4,200.7	-2,666.5	0.45	-0.32	-0.32
11,756.0	90.40	272.10	7,657.9	-0.9	-4,295.7	-2,724.2	0.47	0.21	0.42
11,850.0	88.40	270.80	7,658.9	1.5	-4,389.6	-2,782.0	2.54	-2.13	-1.38
11,945.0	89.30	269.90	7,660.8	2.0	-4,484.6	-2,841.7	1.34	0.95	-0.95
12,040.0	90.70	270.80	7,660.8	2.6	-4,579.6	-2,901.5	1.75	1.47	0.95
12,134.0	91.30	269.70	7,659.2	3.0	-4,673.6	-2,960.8	1.33	0.64	-1.17

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well:Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 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)
12,229.0	91.70	269.60	7,656.7	2.5	-4,768.5	-3,021.4	0.43	0.42	-0.11
12,323.0	90.50	269.20	7,654.9	1.5	-4,862.5	-3,081.8	1.35	-1.28	-0.43
12,418.0	90.90	270.50	7,653.7	1.2	-4,957.5	-3,142.2	1.43	0.42	1.37
12,513.0	91.60	271.60	7,651.6	3.0	-5,052.5	-3,201.1	1.37	0.74	1.16
12,607.0	90.20	270.50	7,650.2	4.7	-5,146.4	-3,259.3	1.89	-1.49	-1.17
12,702.0	90.70	271.00	7,649.4	5.9	-5,241.4	-3,318.6	0.74	0.53	0.53
12,796.0	90.50	269.80	7,648.4	6.6	-5,335.4	-3,377.7	1.29	-0.21	-1.28
12,891.0	89.80	267.00	7,648.2	3.9	-5,430.4	-3,439.9	3.04	-0.74	-2.95
12,985.0	91.20	267.80	7,647.4	-0.3	-5,524.3	-3,502.7	1.72	1.49	0.85
13,080.0	92.00	267.80	7,644.7	-4.0	-5,619.2	-3,565.7	0.84	0.84	0.00
13,174.0	92.80	268.60	7,640.8	-6.9	-5,713.0	-3,627.5	1.20	0.85	0.85
13,269.0	91.30	269.00	7,637.4	-8.9	-5,807.9	-3,689.2	1.63	-1.58	0.42
13,363.0	86.90	267.60	7,638.8	-11.7	-5,901.9	-3,750.9	4.91	-4.68	-1.49
13,458.0	86.90	268.00	7,644.0	-15.3	-5,996.7	-3,813.9	0.42	0.00	0.42
13,553.0	89.50	267.80	7,647.0	-18.8	-6,091.5	-3,876.7	2.74	2.74	-0.21
13,647.0	91.10	267.80	7,646.5	-22.4	-6,185.5	-3,939.0	1.70	1.70	0.00
13,742.0	93.30	268.90	7,642.8	-25.2	-6,280.4	-4,001.3	2.59	2.32	1.16
13,837.0	95.70	269.80	7,635.4	-26.2	-6,375.0	-4,062.2	2.70	2.53	0.95
13,931.0	92.40	270.10	7,628.7	-26.3	-6,468.8	-4,121.7	3.53	-3.51	0.32
14,026.0	89.20	268.50	7,627.4	-27.5	-6,563.8	-4,182.8	3.77	-3.37	-1.68
14,120.0	87.60	268.20	7,630.0	-30.2	-6,657.7	-4,244.4	1.73	-1.70	-0.32
14,215.0	86.90	267.60	7,634.6	-33.7	-6,752.5	-4,307.2	0.97	-0.74	-0.63
14,309.0	89.00	266.30	7,638.0	-38.7	-6,846.3	-4,370.6	2.63	2.23	-1.38
14,404.0	90.80	266.90	7,638.1	-44.3	-6,941.1	-4,435.1	2.00	1.89	0.63
14,498.0	93.80	267.80	7,634.4	-48.6	-7,035.0	-4,497.9	3.33	3.19	0.96
14,593.0	96.80	268.30	7,625.6	-51.9	-7,129.5	-4,560.3	3.20	3.16	0.53
14,687.0	96.20	266.40	7,614.9	-56.2	-7,222.8	-4,622.8	2.11	-0.64	-2.02
14,756.0	97.10	266.30	7,606.9	-60.5	-7,291.2	-4,669.5	1.31	1.30	-0.14
14,825.0	97.10	266.30	7,598.4	-65.0	-7,359.5	-4,716.3	0.00	0.00	0.00

14825.0' MD Projected to Bit - PBHL Pavo Frio 29-30 B2FE Fed Com 1H

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,825.0	7,598.4	-65.0	-7,359.5	14825.0' MD Projected to Bit

DIRECTIONAL

March 5, 2019

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

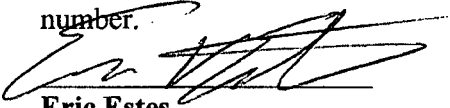
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Pavo Frio 29 30 B2FE Federal Com #001H
Palmillo East Bone Spring
Eddy County, New Mexico
API# 30-015-45405

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>
Victor Anguiano	Original Hole	200ft. to 14,756ft.	12-19-18 to 01-04-19	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.


Eric 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 Frio 29 30 B2FE Fed Com #1HM181158

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



March 5, 2019

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of December 19, 2018, through January 4, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 200feet to a depth of 14,756feet; 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 Frio 29 30 B2FE Federal Com#001H, well API # 30-015-45405 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.

A handwritten signature in black ink, appearing to read "Eric Estes", written over a horizontal line.

Eric 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



Wells Operator Data

OCD Permitting[Home](#) > [Wells](#) > [Well Details](#)**30-015-45405 PAVO FRIO 29 28 B2FE FEDERAL COM #001H [322846]****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:	State
Surface Location:	F-29-18S-29E 2100 FNL 2450 FWL		
Lat/Long:	32.7199223, -104.0975389 NAD83		
GL Elevation:	3480		
KB Elevation:		Sing/Mult Compl:	Single
DF Elevation:		Potash Waiver:	False

Proposed Formation and/or Notes**Depths**

Proposed:	14638	Total Vertical Depth:	0
Measured Vertical Depth:	0	Plugback Measured:	0

Formation Tops

Formation	Top	Producing	Method Obtained
-----------	-----	-----------	-----------------

Event Dates

Initial APD Approval:	10/24/2018	Current APD Expiration:	10/24/2020
Most Recent APD Approval:	11/07/2018		
APD Cancellation:			
APD Extension Approval:			
Spud:		Gas Capture Plan Received:	11/06/2018
Approved Temporary		TA Expiration:	
Abandonment:			
Shut In:			
Plug and Abandoned Intent		PNR Expiration:	
Received:		Last MIT/BHT:	
Well Plugged:			
Site Release:			
Last Inspection:			

History**Quick Links**

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spill](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE F	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project: Eddy County, N.M. Nad (83)	
Map System:	US State Plane 1983
Geo Datum:	North American Datum 1983
Map Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Co
--------------	--

Site Position:		Northing:	625,719.90 usft	Latitude:	32° 43' 11.721 N
From:	Map	Easting:	613,854.20 usft	Longitude:	104° 5' 51.140 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well:		Pavo Frio 29 30 B2FE Fed Com 1H				
Well Position	+N/-S	0.0 usft	Northing:	625,719.90 usft	Latitude:	32° 43' 11.721 N
	+E/-W	0.0 usft	Easting:	613,854.20 usft	Longitude:	104° 5' 51.140 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,480.0 usft

Wellbore:	Original Hole
------------------	---------------

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/08/18	7.09	60.41	48,031.32565992

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	39.35

Survey Program		Date 01/16/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	14,825.0	Survey #1 (Original Hole)		

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Com 1H	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
100.0	0.18	32.59	100.0	3,407.0	0.1	0.1	0.2	31.61	
200.0	1.02	348.22	200.0	3,307.0	1.1	0.0	1.1	359.14	
300.0	2.75	26.64	299.9	3,207.1	4.1	0.9	4.2	11.93	
400.0	3.39	37.34	399.8	3,107.2	8.6	3.7	9.4	23.43	
500.0	3.35	43.69	499.6	3,007.4	13.1	7.6	15.1	29.97	
600.0	3.37	53.45	599.5	2,907.5	17.0	11.9	20.7	35.12	
700.0	3.61	62.04	699.3	2,807.7	20.2	17.1	26.5	40.22	
800.0	4.14	61.30	799.0	2,708.0	23.4	23.0	32.8	44.53	
900.0	3.98	60.69	898.8	2,608.2	26.8	29.2	39.7	47.43	
1,000.0	4.03	56.47	998.5	2,508.5	30.5	35.2	46.5	49.09	
1,100.0	4.30	53.41	1,098.3	2,408.7	34.7	41.1	53.8	49.87	
1,221.0	4.60	58.40	1,218.9	2,288.1	39.9	48.9	63.1	50.78	
1,410.0	2.90	161.50	1,407.7	2,099.3	39.3	56.9	69.1	55.33	
1,599.0	0.40	118.80	1,596.6	1,910.4	34.5	59.0	68.3	59.68	
1,791.0	0.70	78.70	1,788.6	1,718.4	34.4	60.7	69.8	60.46	
1,980.0	1.00	112.70	1,977.5	1,529.5	34.0	63.4	71.9	61.79	
2,170.0	0.80	146.90	2,167.5	1,339.5	32.2	65.6	73.1	63.84	
2,359.0	1.10	137.70	2,356.5	1,150.5	29.8	67.5	73.8	66.21	
2,548.0	0.90	160.30	2,545.5	961.5	27.0	69.3	74.4	68.67	
2,737.0	1.10	152.90	2,734.4	772.6	24.0	70.6	74.6	71.20	
2,927.0	1.00	133.40	2,924.4	582.6	21.3	72.6	75.7	73.68	
3,116.0	0.80	19.30	3,113.4	393.6	21.4	74.3	77.3	73.94	
3,210.0	1.90	356.70	3,207.4	299.6	23.6	74.4	78.0	72.43	
3,305.0	1.70	358.40	3,302.3	204.7	26.5	74.3	78.9	70.34	
3,400.0	3.00	317.40	3,397.2	109.8	29.8	72.5	78.4	67.68	
3,495.0	2.90	323.70	3,492.1	14.9	33.5	69.4	77.1	64.22	
3,590.0	2.90	295.00	3,587.0	-80.0	36.5	65.8	75.3	61.00	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29.30 -18S-29E Pavo Frio 29 30 B2FE Fed Com 1H	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
3,684.0	3.20	280.20	3,680.9	-173.9	38.0	61.1	71.9	58.14	
3,779.0	3.00	281.20	3,775.7	-268.7	38.9	56.1	68.2	55.23	
3,874.0	3.10	276.70	3,870.6	-363.6	39.7	51.1	64.7	52.13	
3,968.0	3.10	280.10	3,964.5	-457.5	40.4	46.0	61.3	48.70	
4,063.0	2.90	246.00	4,059.3	-552.3	39.9	41.3	57.4	45.98	
4,158.0	3.20	250.90	4,154.2	-647.2	38.1	36.6	52.8	43.88	
4,252.0	3.30	247.50	4,248.0	-741.0	36.2	31.6	48.1	41.16	
4,347.0	2.50	225.80	4,342.9	-835.9	33.7	27.6	43.6	39.35	
4,441.0	2.50	199.70	4,436.8	-929.8	30.3	25.5	39.6	40.01	
4,536.0	2.40	193.50	4,531.8	-1,024.8	26.4	24.3	35.9	42.58	
4,630.0	2.50	198.20	4,625.7	-1,118.7	22.6	23.2	32.4	45.77	
4,725.0	2.50	192.70	4,720.6	-1,213.6	18.6	22.1	28.9	49.92	
4,820.0	2.50	195.00	4,815.5	-1,308.5	14.6	21.1	25.6	55.38	
4,914.0	2.50	229.40	4,909.4	-1,402.4	11.3	19.0	22.1	59.38	
5,009.0	2.20	219.90	5,004.3	-1,497.3	8.5	16.3	18.4	62.40	
5,104.0	2.30	224.00	5,099.3	-1,592.3	5.7	13.8	14.9	67.39	
5,198.0	2.00	218.90	5,193.2	-1,686.2	3.1	11.4	11.8	74.82	
5,293.0	2.30	230.00	5,288.1	-1,781.1	0.6	8.9	9.0	86.24	
5,388.0	1.80	240.10	5,383.1	-1,876.1	-1.4	6.2	6.3	102.60	
5,486.0	2.10	239.80	5,481.0	-1,974.0	-3.1	3.3	4.5	132.82	
5,580.0	1.20	239.40	5,575.0	-2,068.0	-4.4	1.0	4.5	167.76	
5,675.0	1.50	242.00	5,669.9	-2,162.9	-5.5	-1.0	5.6	190.24	
5,770.0	1.80	254.40	5,764.9	-2,257.9	-6.5	-3.5	7.4	208.53	
5,865.0	2.00	252.80	5,859.8	-2,352.8	-7.4	-6.6	9.9	221.57	
5,959.0	1.20	306.50	5,953.8	-2,446.8	-7.3	-8.9	11.5	230.72	
6,054.0	1.50	307.20	6,048.8	-2,541.8	-5.9	-10.7	12.2	240.95	
6,148.0	1.60	284.40	6,142.8	-2,635.8	-4.9	-13.0	13.8	249.38	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE F	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
6,243.0	1.70	290.40	6,237.7	-2,730.7	-4.1	-15.6	16.1	255.40	
6,338.0	1.10	325.70	6,332.7	-2,825.7	-2.8	-17.4	17.6	260.83	
6,432.0	0.40	324.80	6,426.7	-2,919.7	-1.8	-18.1	18.2	264.34	
6,527.0	0.40	317.20	6,521.7	-3,014.7	-1.3	-18.5	18.5	266.05	
6,621.0	0.60	271.00	6,615.7	-3,108.7	-1.0	-19.2	19.2	266.93	
6,716.0	0.50	265.40	6,710.7	-3,203.7	-1.1	-20.1	20.2	267.00	
6,810.0	0.70	273.90	6,804.7	-3,297.7	-1.0	-21.1	21.1	267.16	
6,905.0	1.20	222.90	6,899.6	-3,392.6	-1.7	-22.4	22.4	265.56	
7,000.0	1.50	220.00	6,994.6	-3,487.6	-3.4	-23.8	24.1	261.84	
7,094.0	0.60	228.70	7,088.6	-3,581.6	-4.7	-25.0	25.4	259.39	
7,146.0	0.70	255.90	7,140.6	-3,633.6	-4.9	-25.5	26.0	259.04	
7,214.0	3.30	270.40	7,208.6	-3,701.6	-5.0	-27.9	28.3	259.77	
7,245.0	7.30	274.30	7,239.4	-3,732.4	-4.9	-30.7	31.1	260.98	
7,277.0	12.00	273.80	7,271.0	-3,764.0	-4.5	-36.1	36.4	262.89	
7,308.0	15.70	273.10	7,301.0	-3,794.0	-4.1	-43.5	43.7	264.66	
7,340.0	18.50	272.00	7,331.6	-3,824.6	-3.7	-52.9	53.0	266.05	
7,372.0	21.10	271.00	7,361.7	-3,854.7	-3.4	-63.7	63.8	266.97	
7,403.0	24.00	268.90	7,390.4	-3,883.4	-3.4	-75.6	75.7	267.43	
7,435.0	27.30	267.50	7,419.2	-3,912.2	-3.8	-89.5	89.5	267.54	
7,466.0	31.00	267.40	7,446.3	-3,939.3	-4.5	-104.5	104.6	267.53	
7,498.0	33.70	268.30	7,473.3	-3,966.3	-5.2	-121.6	121.8	267.57	
7,530.0	36.40	268.00	7,499.5	-3,992.5	-5.7	-140.0	140.1	267.65	
7,561.0	40.50	268.10	7,523.8	-4,016.8	-6.4	-159.3	159.4	267.70	
7,593.0	43.50	267.50	7,547.6	-4,040.6	-7.2	-180.7	180.8	267.71	
7,624.0	46.70	267.30	7,569.4	-4,062.4	-8.2	-202.6	202.8	267.68	
7,656.0	50.60	268.00	7,590.6	-4,083.6	-9.2	-226.6	226.8	267.67	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Com 1H	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
7,657.8	50.80	268.06	7,591.7	-4,084.7	-9.3	-228.0	228.2	267.68	
LP Pavo Frio 29-30 B2FE Fed Com 1H									
7,688.0	54.20	269.10	7,610.1	-4,103.1	-9.8	-251.9	252.1	267.76	
7,719.0	57.90	269.90	7,627.4	-4,120.4	-10.1	-277.6	277.8	267.92	
7,751.0	62.40	270.60	7,643.3	-4,136.3	-9.9	-305.4	305.6	268.14	
7,782.0	65.90	270.60	7,656.8	-4,149.8	-9.6	-333.3	333.4	268.34	
7,814.0	68.90	270.40	7,669.1	-4,162.1	-9.4	-362.8	362.9	268.52	
7,846.0	72.20	269.00	7,679.8	-4,172.8	-9.5	-393.0	393.1	268.61	
7,877.0	75.30	268.80	7,688.5	-4,181.5	-10.1	-422.7	422.9	268.63	
7,909.0	78.60	268.40	7,695.7	-4,188.7	-10.9	-453.9	454.0	268.63	
7,940.0	82.80	268.50	7,700.7	-4,193.7	-11.7	-484.5	484.6	268.62	
7,972.0	85.70	268.70	7,703.9	-4,196.9	-12.5	-516.3	516.5	268.61	
7,986.0	86.50	268.60	7,704.9	-4,197.9	-12.8	-530.3	530.4	268.62	
8,066.0	90.20	271.80	7,707.2	-4,200.2	-12.5	-610.2	610.3	268.82	
8,161.0	90.20	269.50	7,706.8	-4,199.8	-11.5	-705.2	705.3	269.07	
8,255.0	91.10	269.20	7,705.8	-4,198.8	-12.5	-799.2	799.3	269.10	
8,350.0	92.40	269.20	7,702.9	-4,195.9	-13.8	-894.1	894.2	269.11	
8,445.0	88.70	268.80	7,701.9	-4,194.9	-15.5	-989.1	989.2	269.10	
8,540.0	86.60	267.90	7,705.8	-4,198.8	-18.2	-1,084.0	1,084.1	269.04	
8,634.0	89.20	272.00	7,709.3	-4,202.3	-18.3	-1,177.9	1,178.0	269.11	
8,729.0	92.20	272.90	7,708.1	-4,201.1	-14.3	-1,272.8	1,272.8	269.36	
8,823.0	90.20	273.20	7,706.2	-4,199.2	-9.3	-1,366.6	1,366.6	269.61	
8,918.0	92.60	272.70	7,703.8	-4,196.8	-4.4	-1,461.4	1,461.5	269.83	
9,013.0	91.20	272.60	7,700.7	-4,193.7	0.0	-1,556.3	1,556.3	270.00	
9,108.0	93.10	272.90	7,697.1	-4,190.1	4.6	-1,651.1	1,651.1	270.16	
9,202.0	93.20	273.90	7,692.0	-4,185.0	10.1	-1,744.8	1,744.8	270.33	
9,297.0	91.40	273.20	7,688.1	-4,181.1	16.0	-1,839.5	1,839.6	270.50	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M.: Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE F	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,391.0	90.10	270.60	7,686.9	-4,179.9	19.1	-1,933.5	1,933.6	270.57	
9,486.0	90.40	272.00	7,686.5	-4,179.5	21.3	-2,028.4	2,028.6	270.60	
9,580.0	86.70	270.40	7,688.9	-4,181.9	23.3	-2,122.4	2,122.5	270.63	
9,675.0	84.90	269.80	7,695.8	-4,188.8	23.4	-2,217.1	2,217.2	270.61	
9,769.0	91.60	266.90	7,698.7	-4,191.7	20.7	-2,311.0	2,311.1	270.51	
9,864.0	92.70	267.90	7,695.1	-4,188.1	16.4	-2,405.8	2,405.9	270.39	
9,958.0	92.60	267.90	7,690.8	-4,183.8	13.0	-2,499.6	2,499.7	270.30	
10,053.0	89.50	268.10	7,689.1	-4,182.1	9.7	-2,594.6	2,594.6	270.21	
10,148.0	87.00	268.50	7,692.0	-4,185.0	6.8	-2,689.5	2,689.5	270.15	
10,242.0	89.30	268.20	7,695.0	-4,188.0	4.1	-2,783.4	2,783.4	270.09	
10,337.0	92.10	266.50	7,693.8	-4,186.8	-0.3	-2,878.2	2,878.2	269.99	
10,432.0	92.60	267.10	7,689.9	-4,182.9	-5.6	-2,973.0	2,973.0	269.89	
10,526.0	89.90	265.60	7,687.9	-4,180.9	-11.5	-3,066.8	3,066.8	269.78	
10,621.0	90.60	268.20	7,687.5	-4,180.5	-16.7	-3,161.6	3,161.7	269.70	
10,716.0	89.80	268.00	7,687.1	-4,180.1	-19.8	-3,256.6	3,256.6	269.65	
10,810.0	91.00	269.00	7,686.5	-4,179.5	-22.3	-3,350.5	3,350.6	269.62	
10,905.0	92.30	270.90	7,683.7	-4,176.7	-22.4	-3,445.5	3,445.6	269.63	
11,000.0	91.20	271.20	7,680.8	-4,173.8	-20.6	-3,540.4	3,540.5	269.67	
11,093.0	92.20	270.30	7,678.1	-4,171.1	-19.4	-3,633.4	3,633.4	269.69	
11,188.0	92.80	270.90	7,673.9	-4,166.9	-18.4	-3,728.3	3,728.3	269.72	
11,282.0	93.50	271.20	7,668.8	-4,161.8	-16.7	-3,822.1	3,822.2	269.75	
11,378.0	92.20	272.00	7,664.0	-4,157.0	-14.0	-3,918.0	3,918.0	269.79	
11,472.0	91.70	272.20	7,660.8	-4,153.8	-10.6	-4,011.9	4,011.9	269.85	
11,567.0	90.50	272.00	7,659.0	-4,152.0	-7.1	-4,106.8	4,106.8	269.90	
11,661.0	90.20	271.70	7,658.4	-4,151.4	-4.1	-4,200.7	4,200.7	269.94	
11,756.0	90.40	272.10	7,657.9	-4,150.9	-0.9	-4,295.7	4,295.7	269.99	
11,850.0	88.40	270.80	7,658.9	-4,151.9	1.5	-4,389.6	4,389.6	270.02	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE F	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
11,945.0	89.30	269.90	7,660.8	-4,153.8	2.0	-4,484.6	4,484.6	270.03	
12,040.0	90.70	270.80	7,660.8	-4,153.8	2.6	-4,579.6	4,579.6	270.03	
12,134.0	91.30	269.70	7,659.2	-4,152.2	3.0	-4,673.6	4,673.6	270.04	
12,229.0	91.70	269.60	7,656.7	-4,149.7	2.5	-4,768.5	4,768.5	270.03	
12,323.0	90.50	269.20	7,654.9	-4,147.9	1.5	-4,862.5	4,862.5	270.02	
12,418.0	90.90	270.50	7,653.7	-4,146.7	1.2	-4,957.5	4,957.5	270.01	
12,513.0	91.60	271.60	7,651.6	-4,144.6	3.0	-5,052.5	5,052.5	270.03	
12,607.0	90.20	270.50	7,650.2	-4,143.2	4.7	-5,146.4	5,146.4	270.05	
12,702.0	90.70	271.00	7,649.4	-4,142.4	5.9	-5,241.4	5,241.4	270.06	
12,796.0	90.50	269.80	7,648.4	-4,141.4	6.6	-5,335.4	5,335.4	270.07	
12,891.0	89.80	267.00	7,648.2	-4,141.2	3.9	-5,430.4	5,430.4	270.04	
12,985.0	91.20	267.80	7,647.4	-4,140.4	-0.3	-5,524.3	5,524.3	270.00	
13,080.0	92.00	267.80	7,644.7	-4,137.7	-4.0	-5,619.2	5,619.2	269.96	
13,174.0	92.80	268.60	7,640.8	-4,133.8	-6.9	-5,713.0	5,713.0	269.93	
13,269.0	91.30	269.00	7,637.4	-4,130.4	-8.9	-5,807.9	5,808.0	269.91	
13,363.0	86.90	267.60	7,638.8	-4,131.8	-11.7	-5,901.9	5,901.9	269.89	
13,458.0	86.90	268.00	7,644.0	-4,137.0	-15.3	-5,996.7	5,996.7	269.85	
13,553.0	89.50	267.80	7,647.0	-4,140.0	-18.8	-6,091.5	6,091.6	269.82	
13,647.0	91.10	267.80	7,646.5	-4,139.5	-22.4	-6,185.5	6,185.5	269.79	
13,742.0	93.30	268.90	7,642.8	-4,135.8	-25.2	-6,280.4	6,280.4	269.77	
13,837.0	95.70	269.80	7,635.4	-4,128.4	-26.2	-6,375.0	6,375.1	269.76	
13,931.0	92.40	270.10	7,628.7	-4,121.7	-26.3	-6,468.8	6,468.8	269.77	
14,026.0	89.20	268.50	7,627.4	-4,120.4	-27.5	-6,563.8	6,563.8	269.76	
14,120.0	87.60	268.20	7,630.0	-4,123.0	-30.2	-6,657.7	6,657.8	269.74	
14,215.0	86.90	267.60	7,634.6	-4,127.6	-33.7	-6,752.5	6,752.6	269.71	
14,309.0	89.00	266.30	7,638.0	-4,131.0	-38.7	-6,846.3	6,846.4	269.68	
14,404.0	90.80	266.90	7,638.1	-4,131.1	-44.3	-6,941.1	6,941.3	269.63	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29 30 B2FE Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Site:	Section 29 30 -18S-29E Pavo Frio 29 30 B2FE Fed Com 1H	MD Reference:	3480 +27 @ 3507.0usft (Patterson 560)
Well:	Pavo Frio 29 30 B2FE Fed Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
14,498.0	93.80	267.80	7,634.4	-4,127.4	-48.6	-7,035.0	7,035.1	269.60	
14,593.0	96.80	268.30	7,625.6	-4,118.6	-51.9	-7,129.5	7,129.7	269.58	
14,687.0	96.20	266.40	7,614.9	-4,107.9	-56.2	-7,222.8	7,223.0	269.55	
14,756.0	97.10	266.30	7,606.9	-4,099.9	-60.5	-7,291.2	7,291.4	269.52	
14,825.0	97.10	266.30	7,598.4	-4,091.4	-65.0	-7,359.5	7,359.8	269.49	
14825.0' MD Projected to Bit - PBHL Pavo Frio 29-30 B2FE Fed Com 1H									

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
14,825.0	7,598.4	-65.0	-7,359.5	14825.0' MD Projected to Bit	



COMPANY: Mewbourne Oil Company
 WELL: Pavo Frio 29 30 B2FE Fed Com 1H
 COUNTY: Eddy County, N.M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson 560



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.96°

GEODETIC ZONE: New Mexico Eastern Zone										
3480 +27 @ 3507.0usft (Patterson 560)										
GROUND ELEVATION: 3480.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	625719.90	613854.20	32° 43' 11.721 N	104° 5' 51.140 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	7229.6	0.00	0.00	7229.6	0.0	0.0	0.00	0.00	0.0	
3	7985.8	90.75	269.78	7707.0	-1.9	-483.7	12.00	269.78	483.7	
4	14869.4	90.75	269.78	7617.0	-28.7	-7366.7	0.00	0.00	7366.7	PBHL Pavo Frio 29-30 B2FE Fed Com 1H

SHL: 2100' FNL; 2450' FWL
 Section 29-18S-29E
 PBHL: 2100' FNL; 100' FWL
 Section 30-18S-29E

