



30015 42974

Mewbourne Oil Company .

Eddy County, New Mexico

Section 20-29--23S-27E Sterling Pound 20-29 W2DE

Sterling Pound 20-29 W2DE State Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

22 October, 2015

NM OIL CONSERVATION

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Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Sterling Pound 20-29 W2DE State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Site:	Section20-29-23S-27E Sterling Pound 20-29 W2DE	MD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Well:	Sterling Pound 20-29 W2DE State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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	Section20-29-23S-27E Sterling Pound 20-29 W2DE		
Site Position:		Northing:	471,804.90 usft
From:	Map	Easting:	535,672.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 49.400 N
		Longitude:	104° 13' 4.382 W
		Grid Convergence:	0.06 °

Well	Sterling Pound 20-29 W2DE State Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 471,804.90 usft
	+E/-W	0.0 usft	Easting: 535,672.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	25.0 usft
		Latitude:	32° 17' 49.400 N
		Longitude:	104° 13' 4.382 W
		Ground Level:	3,185.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/11/2015	7.45	60.05	48,094

Design	Original Hole		
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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	179.93

Survey Program	Date 10/22/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,111.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
9,195.0	16,725.0	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	0.74	265.84	100.0	0.0	-0.6	0.0	0.74	0.74	0.00
200.0	0.98	264.25	200.0	-0.2	-2.1	0.2	0.24	0.24	-1.59
300.0	1.47	247.49	300.0	-0.8	-4.2	0.8	0.60	0.49	-16.76
400.0	1.68	245.54	399.9	-1.9	-6.7	1.8	0.22	0.21	-1.95
500.0	1.89	242.38	499.9	-3.2	-9.5	3.2	0.23	0.21	-3.16
600.0	1.92	245.71	599.8	-4.7	-12.5	4.7	0.11	0.03	3.33
700.0	0.23	178.02	699.8	-5.6	-14.0	5.6	1.84	-1.69	-67.69



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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)
800.0	1.22	60.12	799.8	-5.2	-13.1	5.2	1.34	0.99	-117.90
900.0	1.43	89.15	899.8	-4.7	-10.9	4.7	0.69	0.21	29.03
1,000.0	1.73	110.63	999.7	-5.2	-8.2	5.2	0.66	0.30	21.48
1,100.0	1.98	124.44	1,099.7	-6.7	-5.4	6.7	0.51	0.25	13.81
1,200.0	2.17	112.56	1,199.6	-8.4	-2.2	8.4	0.47	0.19	-11.88
1,300.0	2.96	95.53	1,299.5	-9.4	2.1	9.4	1.09	0.79	-17.03
1,400.0	3.60	80.78	1,399.4	-9.1	7.8	9.1	1.05	0.64	-14.75
1,500.0	0.80	17.66	1,499.3	-8.0	11.1	8.0	3.32	-2.80	-63.12
1,600.0	1.59	320.44	1,599.3	-6.2	10.4	6.2	1.34	0.79	-57.22
1,700.0	1.67	324.20	1,699.2	-4.0	8.7	4.0	0.13	0.08	3.76
1,800.0	1.60	345.31	1,799.2	-1.4	7.5	1.5	0.60	-0.07	21.11
1,900.0	1.71	10.64	1,899.1	1.4	7.4	-1.4	0.73	0.11	25.33
2,000.0	1.67	23.18	1,999.1	4.2	8.2	-4.2	0.37	-0.04	12.54
2,100.0	1.40	22.73	2,099.1	6.6	9.3	-6.6	0.27	-0.27	-0.45
2,200.0	1.45	23.05	2,199.0	8.9	10.2	-8.9	0.05	0.05	0.32
2,300.0	1.43	20.54	2,299.0	11.3	11.2	-11.2	0.07	-0.02	-2.51
2,400.0	1.04	7.58	2,399.0	13.3	11.7	-13.3	0.48	-0.39	-12.96
2,500.0	0.68	5.33	2,499.0	14.8	11.9	-14.8	0.36	-0.36	-2.25
2,600.0	0.60	42.91	2,599.0	15.8	12.3	-15.8	0.42	-0.08	37.58
2,700.0	0.36	108.75	2,699.0	16.1	13.0	-16.1	0.56	-0.24	65.84
2,800.0	0.30	351.79	2,799.0	16.2	13.2	-16.2	0.56	-0.06	-116.96
2,900.0	0.19	25.01	2,898.9	16.6	13.3	-16.6	0.18	-0.11	33.22
3,000.0	0.18	344.94	2,998.9	16.9	13.3	-16.9	0.13	-0.01	-40.07
3,100.0	0.13	51.71	3,098.9	17.2	13.3	-17.2	0.18	-0.05	66.77
3,200.0	0.23	348.69	3,198.9	17.4	13.4	-17.4	0.21	0.10	-63.02
3,300.0	0.11	296.34	3,298.9	17.7	13.3	-17.7	0.18	-0.12	-52.35
3,400.0	0.14	25.47	3,398.9	17.8	13.2	-17.8	0.18	0.03	89.13
3,500.0	0.21	249.14	3,498.9	17.9	13.1	-17.9	0.33	0.07	-136.33
3,600.0	0.20	213.05	3,598.9	17.7	12.8	-17.6	0.13	-0.01	-36.09
3,700.0	0.20	303.59	3,698.9	17.6	12.6	-17.6	0.28	0.00	90.54
3,800.0	0.24	292.85	3,798.9	17.8	12.3	-17.8	0.06	0.04	-10.74
3,900.0	0.21	271.85	3,898.9	17.9	11.9	-17.9	0.09	-0.03	-21.00
4,000.0	0.37	229.92	3,998.9	17.7	11.5	-17.7	0.26	0.16	-41.93
4,100.0	0.63	268.60	4,098.9	17.5	10.7	-17.4	0.41	0.26	38.68
4,200.0	0.76	273.99	4,198.9	17.5	9.5	-17.5	0.15	0.13	5.39
4,300.0	0.71	264.79	4,298.9	17.5	8.2	-17.5	0.13	-0.05	-9.20
4,400.0	0.82	279.96	4,398.9	17.5	6.9	-17.5	0.23	0.11	15.17
4,500.0	0.54	278.72	4,498.9	17.7	5.7	-17.7	0.28	-0.28	-1.24
4,600.0	0.60	301.25	4,598.9	18.1	4.8	-18.1	0.23	0.06	22.53
4,700.0	0.49	284.52	4,698.9	18.5	3.9	-18.5	0.19	-0.11	-16.73
4,800.0	0.36	16.85	4,798.9	18.9	3.6	-18.9	0.62	-0.13	92.33
4,900.0	0.16	263.43	4,898.9	19.2	3.5	-19.2	0.45	-0.20	-113.42



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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)
5,000.0	0.13	265.85	4,998.9	19.1	3.3	-19.1	0.03	-0.03	2.42
5,100.0	0.05	188.15	5,098.9	19.1	3.2	-19.1	0.13	-0.08	-77.70
5,200.0	0.20	236.96	5,198.9	18.9	3.0	-18.9	0.17	0.15	48.81
5,300.0	0.31	184.22	5,298.9	18.6	2.8	-18.6	0.25	0.11	-52.74
5,400.0	0.29	167.81	5,398.9	18.1	2.9	-18.1	0.09	-0.02	-16.41
5,500.0	0.43	165.24	5,498.9	17.4	3.0	-17.4	0.14	0.14	-2.57
5,600.0	0.63	154.60	5,598.9	16.6	3.4	-16.6	0.22	0.20	-10.64
5,700.0	1.98	122.34	5,698.9	15.2	5.1	-15.2	1.49	1.35	-32.26
5,800.0	2.53	105.17	5,798.8	13.7	8.6	-13.7	0.87	0.55	-17.17
5,900.0	2.31	109.91	5,898.7	12.4	12.7	-12.4	0.30	-0.22	4.74
6,000.0	2.41	124.17	5,998.6	10.5	16.3	-10.5	0.59	0.10	14.26
6,100.0	1.97	136.57	6,098.5	8.1	19.2	-8.1	0.64	-0.44	12.40
6,200.0	2.01	117.57	6,198.5	6.0	22.0	-6.0	0.66	0.04	-19.00
6,300.0	2.22	92.74	6,298.4	5.1	25.5	-5.1	0.93	0.21	-24.83
6,400.0	2.23	91.57	6,398.3	5.0	29.3	-5.0	0.05	0.01	-1.17
6,500.0	1.92	113.76	6,498.3	4.3	32.8	-4.2	0.85	-0.31	22.19
6,600.0	0.81	139.49	6,598.2	3.1	34.8	-3.0	1.24	-1.11	25.73
6,700.0	0.79	154.67	6,698.2	1.9	35.6	-1.9	0.21	-0.02	15.18
6,800.0	0.48	142.05	6,798.2	0.9	36.1	-0.9	0.34	-0.31	-12.62
6,900.0	0.37	168.90	6,898.2	0.3	36.4	-0.2	0.22	-0.11	26.85
7,000.0	0.56	214.39	6,998.2	-0.4	36.2	0.5	0.40	0.19	45.49
7,100.0	0.37	219.35	7,098.2	-1.1	35.7	1.1	0.19	-0.19	4.96
7,200.0	0.53	245.64	7,198.2	-1.5	35.1	1.6	0.26	0.16	26.29
7,300.0	0.62	268.47	7,298.2	-1.7	34.1	1.8	0.24	0.09	22.83
7,400.0	0.62	259.88	7,398.2	-1.8	33.1	1.9	0.09	0.00	-8.59
7,500.0	0.55	245.47	7,498.2	-2.1	32.1	2.2	0.16	-0.07	-14.41
7,600.0	1.37	282.14	7,598.2	-2.1	30.5	2.1	0.99	0.82	36.67
7,700.0	1.89	254.68	7,698.1	-2.3	27.7	2.3	0.92	0.52	-27.46
7,800.0	2.23	231.83	7,798.1	-3.9	24.6	3.9	0.88	0.34	-22.85
7,900.0	2.85	195.77	7,898.0	-7.5	22.4	7.5	1.68	0.62	-36.06
8,000.0	2.82	207.12	7,997.9	-12.1	20.6	12.1	0.56	-0.03	11.35
8,100.0	3.34	216.60	8,097.7	-16.6	17.8	16.6	0.73	0.52	9.48
8,200.0	3.34	213.54	8,197.6	-21.4	14.4	21.4	0.18	0.00	-3.06
8,300.0	2.52	211.00	8,297.4	-25.7	11.7	25.7	0.83	-0.82	-2.54
8,400.0	2.77	210.39	8,397.3	-29.7	9.3	29.7	0.25	0.25	-0.61
8,500.0	2.71	225.13	8,497.2	-33.4	6.4	33.4	0.71	-0.06	14.74
8,600.0	2.30	221.59	8,597.1	-36.6	3.4	36.6	0.44	-0.41	-3.54
8,700.0	1.95	223.84	8,697.0	-39.3	0.9	39.3	0.36	-0.35	2.25
8,800.0	1.50	213.76	8,797.0	-41.6	-1.0	41.6	0.54	-0.45	-10.08
8,900.0	1.20	208.34	8,897.0	-43.6	-2.2	43.6	0.33	-0.30	-5.42
9,000.0	1.02	207.28	8,996.9	-45.3	-3.1	45.3	0.18	-0.18	-1.06
9,100.0	1.26	163.98	9,096.9	-47.2	-3.2	47.2	0.87	0.24	-43.30



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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)
9,111.0	1.33	154.05	9,107.9	-47.4	-3.1	47.4	2.13	0.64	-90.27
9111' MD Phoenix Gyro Survey									
9,195.0	3.60	187.60	9,191.8	-50.9	-3.1	50.9	3.09	2.70	39.94
9,226.0	6.90	186.40	9,222.7	-53.7	-3.4	53.7	10.65	10.65	-3.87
9,258.0	10.30	186.70	9,254.3	-58.5	-4.0	58.5	10.63	10.63	0.94
9,289.0	13.10	181.60	9,284.7	-64.7	-4.4	64.7	9.62	9.03	-16.45
9,321.0	15.90	177.30	9,315.7	-72.7	-4.3	72.7	9.37	8.75	-13.44
9,353.0	18.50	175.50	9,346.2	-82.2	-3.7	82.2	8.29	8.13	-5.63
9,384.0	20.70	178.10	9,375.4	-92.6	-3.1	92.6	7.63	7.10	8.39
9,416.0	23.60	178.30	9,405.1	-104.6	-2.7	104.6	9.07	9.06	0.63
9,448.0	25.50	178.90	9,434.2	-117.9	-2.4	117.9	5.99	5.94	1.88
9,479.0	28.90	178.60	9,461.8	-132.1	-2.1	132.1	10.98	10.97	-0.97
9,511.0	32.00	178.20	9,489.3	-148.3	-1.6	148.3	9.71	9.69	-1.25
9,543.0	34.50	177.40	9,516.1	-165.8	-1.0	165.8	7.93	7.81	-2.50
9,574.0	37.40	176.00	9,541.2	-184.0	0.1	184.0	9.72	9.35	-4.52
9,606.0	41.20	176.00	9,566.0	-204.2	1.5	204.2	11.88	11.88	0.00
9,638.0	43.80	178.90	9,589.5	-225.8	2.5	225.8	10.17	8.13	9.06
9,669.0	45.90	180.80	9,611.5	-247.7	2.5	247.7	8.04	6.77	6.13
9,701.0	48.00	181.50	9,633.4	-271.0	2.0	271.0	6.75	6.56	2.19
9,732.0	49.30	181.60	9,653.8	-294.3	1.4	294.3	4.20	4.19	0.32
9,764.0	50.30	180.30	9,674.5	-318.7	1.0	318.7	4.40	3.13	-4.06
9,796.0	52.40	179.80	9,694.5	-343.7	1.0	343.7	6.67	6.56	-1.56
9,827.0	55.30	179.20	9,712.8	-368.7	1.2	368.8	9.48	9.35	-1.94
9,859.0	58.10	179.30	9,730.3	-395.5	1.6	395.5	8.75	8.75	0.31
9,891.0	60.60	179.00	9,746.6	-423.0	2.0	423.0	7.85	7.81	-0.94
9,922.0	62.10	178.10	9,761.5	-450.2	2.7	450.2	5.47	4.84	-2.90
9,954.0	63.50	177.40	9,776.1	-478.6	3.8	478.7	4.79	4.38	-2.19
9,985.0	65.20	176.40	9,789.6	-506.5	5.3	506.6	6.21	5.48	-3.23
10,017.0	67.50	176.70	9,802.4	-535.8	7.1	535.8	7.24	7.19	0.94
10,077.4	72.37	177.67	9,823.1	-592.4	9.8	592.5	8.21	8.06	1.61
LP Sterling Pound 20 29 W2DE St Com #1H									
10,079.0	72.50	177.70	9,823.6	-594.0	9.9	594.0	8.21	8.07	1.57
10,111.0	74.20	178.80	9,832.8	-624.6	10.8	624.6	6.25	5.31	3.44
10,143.0	77.50	179.70	9,840.6	-655.6	11.2	655.7	10.67	10.31	2.81
10,176.0	80.10	179.60	9,847.0	-688.0	11.4	688.0	7.88	7.88	-0.30
10,208.0	82.20	180.00	9,851.9	-719.6	11.5	719.6	6.68	6.56	1.25
10,240.0	84.60	180.70	9,855.6	-751.4	11.3	751.4	7.81	7.50	2.19
10,271.0	88.40	180.80	9,857.5	-782.3	10.9	782.4	12.26	12.26	0.32
10,303.0	92.40	181.00	9,857.3	-814.3	10.4	814.3	12.52	12.50	0.63
10,398.0	90.50	181.20	9,854.9	-909.3	8.6	909.3	2.01	-2.00	0.21
10,493.0	89.50	180.80	9,854.9	-1,004.3	7.0	1,004.3	1.13	-1.05	-0.42
10,587.0	89.50	181.30	9,855.7	-1,098.2	5.2	1,098.3	0.53	0.00	0.53



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Sterling Pound 20-29 W2DE State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Site:	Section20-29--23S-27E Sterling Pound 20-29 W2DE	MD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Well:	Sterling Pound 20-29 W2DE State 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)	
10,682.0	88.20	180.40	9,857.6	-1,193.2	3.8	1,193.2	1.66	-1.37	-0.95	
10,777.0	86.70	179.80	9,861.8	-1,288.1	3.7	1,288.1	1.70	-1.58	-0.63	
10,872.0	88.00	178.70	9,866.2	-1,383.0	4.9	1,383.0	1.79	1.37	-1.16	
10,967.0	90.20	178.60	9,867.7	-1,478.0	7.1	1,478.0	2.32	2.32	-0.11	
11,062.0	91.00	180.30	9,866.7	-1,572.9	8.0	1,573.0	1.98	0.84	1.79	
11,157.0	92.40	181.00	9,863.9	-1,667.9	7.0	1,667.9	1.65	1.47	0.74	
11,252.0	91.00	182.50	9,861.1	-1,762.8	4.1	1,762.8	2.16	-1.47	1.58	
11,347.0	87.40	181.40	9,862.4	-1,857.7	0.8	1,857.7	3.96	-3.79	-1.16	
11,442.0	92.10	180.60	9,862.8	-1,952.7	-0.8	1,952.7	5.02	4.95	-0.84	
11,537.0	88.50	180.30	9,862.3	-2,047.7	-1.6	2,047.7	3.80	-3.79	-0.32	
11,631.0	85.70	180.30	9,867.1	-2,141.5	-2.1	2,141.5	2.98	-2.98	0.00	
11,726.0	88.30	180.10	9,872.0	-2,236.4	-2.4	2,236.4	2.74	2.74	-0.21	
11,821.0	89.90	179.90	9,873.5	-2,331.4	-2.4	2,331.4	1.70	1.68	-0.21	
11,916.0	92.80	180.70	9,871.3	-2,426.3	-2.9	2,426.3	3.17	3.05	0.84	
12,011.0	91.60	180.00	9,867.6	-2,521.3	-3.5	2,521.3	1.46	-1.26	-0.74	
12,106.0	92.40	180.90	9,864.3	-2,616.2	-4.2	2,616.2	1.27	0.84	0.95	
12,201.0	91.30	180.30	9,861.3	-2,711.1	-5.2	2,711.1	1.32	-1.16	-0.63	
12,296.0	86.20	178.20	9,863.3	-2,806.1	-4.0	2,806.1	5.81	-5.37	-2.21	
12,391.0	86.60	178.20	9,869.3	-2,900.8	-1.0	2,900.8	0.42	0.42	0.00	
12,486.0	89.10	178.10	9,872.9	-2,995.7	2.1	2,995.7	2.63	2.63	-0.11	
12,581.0	90.50	178.90	9,873.2	-3,090.7	4.6	3,090.7	1.70	1.47	0.84	
12,610.0	90.50	178.80	9,872.9	-3,119.7	5.1	3,119.7	0.34	0.00	-0.34	
12,705.0	89.60	179.00	9,872.9	-3,214.7	7.0	3,214.7	0.97	-0.95	0.21	
12,801.0	89.50	179.50	9,873.6	-3,310.6	8.2	3,310.7	0.53	-0.10	0.52	
12,896.0	89.10	175.60	9,874.8	-3,405.5	12.3	3,405.5	4.13	-0.42	-4.11	
12,991.0	95.20	177.80	9,871.2	-3,500.3	17.8	3,500.3	6.82	6.42	2.32	
13,082.0	91.50	177.70	9,865.9	-3,591.0	21.3	3,591.0	4.07	-4.07	-0.11	
13,177.0	88.80	178.60	9,865.6	-3,686.0	24.4	3,686.0	3.00	-2.84	0.95	
13,272.0	90.30	180.30	9,866.4	-3,780.9	25.3	3,781.0	2.39	1.58	1.79	
13,366.0	88.30	178.20	9,867.5	-3,874.9	26.5	3,874.9	3.08	-2.13	-2.23	
13,461.0	91.30	180.70	9,867.9	-3,969.9	27.4	3,969.9	4.11	3.16	2.63	
13,556.0	86.80	179.10	9,869.4	-4,064.9	27.6	4,064.9	5.03	-4.74	-1.68	
13,651.0	93.20	180.40	9,869.4	-4,159.8	28.0	4,159.8	6.87	6.74	1.37	
13,746.0	93.60	180.30	9,863.8	-4,254.6	27.4	4,254.7	0.43	0.42	-0.11	
13,841.0	89.90	181.40	9,860.9	-4,349.6	26.0	4,349.6	4.06	-3.89	1.16	
13,935.0	87.90	181.20	9,862.7	-4,443.5	23.9	4,443.5	2.14	-2.13	-0.21	
14,030.0	86.90	179.50	9,867.0	-4,538.4	23.3	4,538.4	2.07	-1.05	-1.79	
14,125.0	91.70	182.70	9,868.2	-4,633.3	21.5	4,633.4	6.07	5.05	3.37	
14,220.0	91.60	182.20	9,865.4	-4,728.2	17.4	4,728.2	0.54	-0.11	-0.53	
14,315.0	91.50	182.20	9,862.9	-4,823.1	13.8	4,823.1	0.11	-0.11	0.00	
14,410.0	90.30	181.80	9,861.4	-4,918.0	10.5	4,918.1	1.33	-1.26	-0.42	
14,505.0	91.70	184.20	9,859.7	-5,012.9	5.5	5,012.9	2.92	1.47	2.53	



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Sterling Pound 20-29 W2DE State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Site:	Section20-29--23S-27E Sterling Pound 20-29 W2DE	MD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Well:	Sterling Pound 20-29 W2DE State 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)
14,600.0	86.90	182.90	9,860.9	-5,107.7	-0.4	5,107.7	5.23	-5.05	-1.37
14,694.0	89.70	183.80	9,863.7	-5,201.5	-5.9	5,201.4	3.13	2.98	0.96
14,789.0	86.10	179.50	9,867.2	-5,296.3	-8.6	5,296.3	5.90	-3.79	-4.53
14,884.0	85.50	178.80	9,874.1	-5,391.0	-7.2	5,391.0	0.97	-0.63	-0.74
14,979.0	88.00	181.00	9,879.5	-5,485.9	-7.0	5,485.9	3.50	2.63	2.32
15,073.0	90.50	181.50	9,880.7	-5,579.8	-9.1	5,579.8	2.71	2.66	0.53
15,168.0	88.80	178.90	9,881.3	-5,674.8	-9.4	5,674.8	3.27	-1.79	-2.74
15,263.0	91.30	179.60	9,881.2	-5,769.8	-8.2	5,769.8	2.73	2.63	0.74
15,358.0	90.80	179.00	9,879.5	-5,864.8	-7.0	5,864.8	0.82	-0.53	-0.63
15,453.0	90.10	179.60	9,878.7	-5,959.8	-5.9	5,959.8	0.97	-0.74	0.63
15,548.0	89.40	179.10	9,879.2	-6,054.8	-4.8	6,054.8	0.91	-0.74	-0.53
15,643.0	87.60	178.30	9,881.6	-6,149.7	-2.6	6,149.7	2.07	-1.89	-0.84
15,737.0	88.90	178.30	9,884.5	-6,243.6	0.2	6,243.6	1.38	1.38	0.00
15,832.0	92.40	180.00	9,883.4	-6,338.6	1.6	6,338.6	4.10	3.68	1.79
15,927.0	92.10	179.60	9,879.7	-6,433.5	1.9	6,433.5	0.53	-0.32	-0.42
16,022.0	92.40	178.90	9,876.0	-6,528.4	3.1	6,528.4	0.80	0.32	-0.74
16,117.0	92.00	181.60	9,872.3	-6,623.4	2.7	6,623.3	2.87	-0.42	2.84
16,212.0	88.40	180.40	9,872.0	-6,718.3	1.1	6,718.3	3.99	-3.79	-1.26
16,307.0	88.00	180.40	9,875.0	-6,813.3	0.4	6,813.3	0.42	-0.42	0.00
16,402.0	87.30	179.20	9,878.9	-6,908.2	0.7	6,908.2	1.46	-0.74	-1.26
16,497.0	90.20	180.40	9,881.0	-7,003.2	1.1	7,003.1	3.30	3.05	1.26
16,592.0	90.30	179.80	9,880.5	-7,098.2	0.9	7,098.1	0.64	0.11	-0.63
16,672.0	89.20	179.30	9,880.9	-7,178.1	1.5	7,178.1	1.51	-1.38	-0.63
16,725.0	89.20	179.30	9,881.6	-7,231.1	2.2	7,231.1	0.00	0.00	0.00
16725' MD Projected to Bit - PBHL Sterling Pound 20-29 W2DE st Com #1H									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,111.0	9,107.9	-47.4	-3.1	9111' MD Phoenix Gyro Survey
16,725.0	9,881.6	-7,231.1	2.2	16725' MD Projected to Bit



November 13, 2015

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
Sterling Pound 20/29 W2DE State Com #1H
Forehand Ranch; Wolfcamp, Southwest
Eddy County, New Mexico
API# 30-015-42974

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>
John Bult	Original Hole	9,195ft. to 16,672ft.	10-01-15 to 10-22-15	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\Sterling Pound 20-29 State Com #1H\M151105

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



November 13, 2015

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 October 02, 2015, through October 22, 2015 conduct or supervise the taking of a SEDS MWD Survey from a depth of 9,195 feet to a depth of 16,672 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 Sterling Pound 20/29 W2DE State Com #1H well, API # **30-015-42974** 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

Stryker Directional

Sterling Pound 20-29 W2DE State Com #1H

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Sterling Pound 20-29 W2DE State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Site:	Section 20-29--23S-27E Sterling Pound 20-29 W2	MD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Well:	Sterling Pound 20-29 W2DE State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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 20-29--23S-27E Sterling Pound 20-29 W2DE		
Site Position:			
From:		North:	32° 17' 49.400 N
Position Uncertainty:	Map	East:	104° 13' 4.382 W
	0.0 usft	Slot Radius:	0.06 °
			Grid Convergence:

Well	Sterling Pound 20-29 W2DE State Com #1H		
Well Position			
Well Position	+N/-S	North:	32° 17' 49.400 N
	+E/-W	East:	104° 13' 4.382 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,185.0 usft
	0.0 usft		
	0.0 usft		

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Field Strength
	IGRF2015	9/11/2015	(nT)
		7.45	48,094
		60.05	

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	Tie On Depth:
		ACTUAL	0.0
Vertical Section:		Depth From (TVD)	Direction
		(usft)	(°)
		0.0	179.93
		+N/-S	
		(usft)	
		0.0	
		+E/-W	
		(usft)	
		0.0	

Stryker Directional

Sterling Pound 20 29 W2DE State Com #1H

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 20-29--23S-27E Sterling Pound 20-29 W2
Well: Sterling Pound 20-29 W2DE State Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Sterling Pound 20-29 W2DE State Com #1H
TVD Reference: 3185 + 25 @ 3210 0usft (Patterson 220)
MD Reference: 3185 + 25 @ 3210 0usft (Patterson 220)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program		Date	10/22/2015			
From (usft)	To (usft)	Survey (Wellbore)		Tool Name	Description	
100.0	9,111.0	Phoenix Gyro Survey (Original Hole)		NSG-CT_WL	Continuous north-seeking gyro on wireline	
9,195.0	16,725.0	MWD Survey (Original Hole)		MWD	MWD v3:standard declination	

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
9,111.0	1.33	154.05	9,107.9	-47.4	-3.1	47.4	47.5	183.80	0.00
9,195.0	3.60	187.60	9,191.8	-50.9	-3.1	50.9	51.0	183.45	3.09
9,226.0	6.90	186.40	9,222.7	-53.7	-3.4	53.7	53.8	183.63	10.65
9,258.0	10.30	186.70	9,254.3	-58.5	-4.0	58.5	58.6	183.87	10.63
9,289.0	13.10	181.60	9,284.7	-64.7	-4.4	64.7	64.9	183.87	9.62
9,321.0	15.90	177.30	9,315.7	-72.7	-4.3	72.7	72.9	183.36	9.37
9,353.0	18.50	175.50	9,346.2	-82.2	-3.7	82.2	82.3	182.55	8.29
9,384.0	20.70	178.10	9,375.4	-92.6	-3.1	92.6	92.6	181.92	7.63
9,416.0	23.60	178.30	9,405.1	-104.6	-2.7	104.6	104.7	181.49	9.07
9,448.0	25.50	178.90	9,434.2	-117.9	-2.4	117.9	117.9	181.17	5.99
9,479.0	28.90	178.60	9,461.8	-132.1	-2.1	132.1	132.1	180.91	10.98
9,511.0	32.00	178.20	9,489.3	-148.3	-1.6	148.3	148.3	180.63	9.71
9,543.0	34.50	177.40	9,516.1	-165.8	-1.0	165.8	165.8	180.33	7.93
9,574.0	37.40	176.00	9,541.2	-184.0	0.1	184.0	184.0	179.97	9.72
9,606.0	41.20	176.00	9,566.0	-204.2	1.5	204.2	204.2	179.58	11.87
9,638.0	43.80	178.90	9,588.5	-225.8	2.5	225.8	225.8	179.38	10.17
9,669.0	45.90	180.90	9,611.5	-247.7	2.5	247.7	247.7	179.42	8.04
9,701.0	48.00	181.50	9,633.4	-271.0	2.0	271.0	271.0	179.57	6.75
9,732.0	49.30	181.60	9,653.8	-294.3	1.4	294.3	294.3	179.73	4.20
9,764.0	50.30	180.30	9,674.5	-318.7	1.0	318.7	318.7	179.82	4.40
9,796.0	52.40	179.80	9,694.5	-343.7	1.0	343.7	343.7	179.84	6.67

Stryker Directional

Sterling Pound 20 29 W2DE State Com #1H

Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Sterling Pound 20-29 W2DE State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Site:	Section 20-29--23S-27E Sterling Pound 20-29 W2	MD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Well:	Sterling Pound 20-29 W2DE State 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)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
9,827.0	55.30	179.20	9,712.8	-368.7	1.2	368.8	368.8	179.81	9.48
9,859.0	58.10	179.30	9,730.3	-395.5	1.6	395.5	395.5	179.77	8.75
9,891.0	60.60	179.00	9,746.6	-423.0	2.0	423.0	423.0	179.73	7.85
9,922.0	62.10	178.10	9,761.5	-450.2	2.7	450.2	450.2	179.66	5.47
9,954.0	63.50	177.40	9,776.1	-478.6	3.8	478.7	478.7	179.55	4.79
9,985.0	65.20	176.40	9,789.6	-506.5	5.3	506.6	506.6	179.40	6.21
10,017.0	67.50	176.70	9,802.4	-535.8	7.1	535.8	535.9	179.25	7.24
10,079.0	72.50	177.70	9,823.6	-594.0	9.9	594.0	594.1	179.05	8.21
10,111.0	74.20	178.80	9,832.8	-624.6	10.8	624.6	624.7	179.01	6.25
10,143.0	77.50	179.70	9,840.6	-655.6	11.2	655.7	655.7	179.02	10.67
10,176.0	80.10	179.60	9,847.0	-688.0	11.4	688.0	688.1	179.05	7.88
10,208.0	82.20	180.00	9,851.9	-719.6	11.5	719.6	719.7	179.08	6.68
10,240.0	84.60	180.70	9,855.6	-751.4	11.3	751.4	751.5	179.14	7.81
10,271.0	88.40	180.80	9,857.5	-782.3	10.9	782.4	782.4	179.20	12.26
10,303.0	92.40	181.00	9,857.3	-814.3	10.4	814.3	814.4	179.27	12.52
10,398.0	90.50	181.20	9,854.9	-909.3	8.6	909.3	909.3	179.46	2.01
10,493.0	89.50	180.80	9,854.9	-1,004.3	7.0	1,004.3	1,004.3	179.60	1.13
10,587.0	89.50	181.30	9,855.7	-1,098.2	5.2	1,098.3	1,098.3	179.73	0.53
10,682.0	88.20	180.40	9,857.6	-1,193.2	3.8	1,193.2	1,193.2	179.82	1.86
10,777.0	86.70	179.80	9,861.8	-1,288.1	3.7	1,288.1	1,288.1	179.84	1.70
10,872.0	88.00	178.70	9,866.2	-1,383.0	4.9	1,383.0	1,383.0	179.80	1.79
10,967.0	90.20	178.60	9,867.7	-1,478.0	7.1	1,478.0	1,478.0	179.72	2.32
11,062.0	91.00	180.30	9,866.7	-1,572.9	8.0	1,573.0	1,573.0	179.71	1.98
11,157.0	92.40	181.00	9,863.9	-1,667.9	7.0	1,667.9	1,667.9	179.76	1.65
11,252.0	91.00	182.50	9,861.1	-1,762.8	4.1	1,762.8	1,762.8	179.87	2.16
11,347.0	87.40	181.40	9,862.4	-1,857.7	0.8	1,857.7	1,857.7	179.97	3.95
11,442.0	92.10	180.60	9,862.8	-1,952.7	-0.8	1,952.7	1,952.7	180.02	5.02

Stryker Directional

Sterling Pound 20 29 W2DE State Com #1H

Company: Newbourn Oil Company
Project: Eddy County, New Mexico
Site: Section 20-29--23S-27E Sterling Pound 20-29 W2
Well: Sterling Pound 20-29 W2DE State Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Sterling Pound 20-29 W2DE State Com #1H
TVD Reference: 3185 + 25 @ 3210.0usft (Patterson 220)
MD Reference: 3185 + 25 @ 3210.0usft (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)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
11,537.0	88.50	180.30	9,882.3	-2,047.7	-1.6	2,047.7	2,047.7	180.04	3.80
11,631.0	85.70	180.30	9,887.1	-2,141.5	-2.1	2,141.5	2,141.5	180.06	2.98
11,726.0	88.30	180.10	9,872.0	-2,236.4	-2.4	2,236.4	2,236.4	180.06	2.74
11,821.0	89.90	179.90	9,873.5	-2,331.4	-2.4	2,331.4	2,331.4	180.06	1.70
11,916.0	92.80	180.70	9,871.3	-2,426.3	-2.9	2,426.3	2,426.3	180.07	3.17
12,011.0	91.60	180.00	9,867.6	-2,521.3	-3.5	2,521.3	2,521.3	180.08	1.46
12,106.0	92.40	180.90	9,864.3	-2,616.2	-4.2	2,616.2	2,616.2	180.09	1.27
12,201.0	91.30	180.30	9,861.3	-2,711.1	-5.2	2,711.1	2,711.1	180.11	1.32
12,296.0	86.20	178.20	9,863.3	-2,806.1	-4.0	2,806.1	2,806.1	180.08	5.81
12,391.0	86.60	178.20	9,869.3	-2,900.8	-1.0	2,900.8	2,900.8	180.02	0.42
12,486.0	89.10	178.10	9,872.9	-2,995.7	2.1	2,995.7	2,995.7	179.96	2.63
12,581.0	90.50	178.90	9,873.2	-3,090.7	4.6	3,090.7	3,090.7	179.92	1.70
12,610.0	90.50	178.80	9,872.9	-3,119.7	5.1	3,119.7	3,119.7	179.91	0.34
12,705.0	89.60	179.00	9,872.9	-3,214.7	7.0	3,214.7	3,214.7	179.88	0.97
12,801.0	89.50	179.50	9,873.6	-3,310.6	8.2	3,310.7	3,310.7	179.86	0.53
12,898.0	89.10	175.60	9,874.8	-3,405.5	12.3	3,405.5	3,405.5	179.79	4.13
12,991.0	95.20	177.80	9,871.2	-3,500.3	17.8	3,500.3	3,500.3	179.71	6.82
13,082.0	91.50	177.70	9,865.9	-3,591.0	21.3	3,591.1	3,591.1	179.66	4.07
13,177.0	88.80	178.60	9,865.6	-3,686.0	24.4	3,686.0	3,686.0	179.62	3.00
13,272.0	90.30	180.30	9,866.4	-3,780.9	25.3	3,781.0	3,781.0	179.62	2.39
13,366.0	88.30	178.20	9,867.5	-3,874.9	26.5	3,874.9	3,875.0	179.61	3.08
13,461.0	91.30	180.70	9,867.9	-3,969.9	27.4	3,969.9	3,970.0	179.60	4.11
13,556.0	86.80	179.10	9,869.4	-4,064.9	27.6	4,064.9	4,064.9	179.61	5.03
13,651.0	93.20	180.40	9,869.4	-4,159.8	28.0	4,159.8	4,159.9	179.61	6.87
13,746.0	93.60	180.30	9,863.8	-4,254.6	27.4	4,254.7	4,254.7	179.63	0.43
13,841.0	89.90	181.40	9,860.9	-4,349.6	26.0	4,349.6	4,349.6	179.66	4.06
13,935.0	87.90	181.20	9,862.7	-4,443.5	23.9	4,443.5	4,443.5	179.69	2.14

Stryker Directional

Sterling Pound 20 29 W2DE State Com #1H

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Sterling Pound 20-29 W2DE State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Site:	Section 20-29--23S-27E Sterling Pound 20-29 W2	MD Reference:	3185 + 25 @ 3210.0usft (Patterson 220)
Well:	Sterling Pound 20-29 W2DE State 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)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
14,030.0	86.90	179.50	9,867.0	-4,538.4	23.3	4,538.4	4,538.5	179.71	2.07
14,125.0	91.70	182.70	9,868.2	-4,633.3	21.5	4,633.4	4,633.4	179.73	6.07
14,220.0	91.60	182.20	9,865.4	-4,728.2	17.4	4,728.2	4,728.3	179.79	0.54
14,315.0	91.50	182.20	9,862.9	-4,823.1	13.8	4,823.1	4,823.1	179.84	0.11
14,410.0	90.30	181.30	9,861.4	-4,918.0	10.5	4,918.1	4,918.1	179.88	1.33
14,505.0	91.70	184.20	9,859.7	-5,012.9	5.5	5,012.9	5,012.9	179.94	2.92
14,600.0	86.90	182.90	9,860.9	-5,107.7	-0.4	5,107.7	5,107.7	180.00	5.23
14,694.0	89.70	183.90	9,863.7	-5,201.5	-5.9	5,201.4	5,201.5	180.06	3.13
14,789.0	86.10	179.50	9,867.2	-5,296.3	-8.6	5,296.3	5,296.3	180.09	5.90
14,884.0	85.50	178.80	9,874.1	-5,391.0	-7.2	5,391.0	5,391.1	180.08	0.97
14,979.0	88.00	181.00	9,878.5	-5,485.9	-7.0	5,485.9	5,485.9	180.07	3.50
15,073.0	90.50	181.50	9,880.7	-5,579.8	-9.1	5,579.8	5,579.9	180.09	2.71
15,168.0	88.80	178.90	9,881.3	-5,674.8	-9.4	5,674.8	5,674.8	180.10	3.27
15,263.0	91.30	179.60	9,881.2	-5,769.8	-8.2	5,769.8	5,769.8	180.08	2.73
15,358.0	90.80	179.00	9,879.5	-5,864.8	-7.0	5,864.8	5,864.8	180.07	0.82
15,453.0	90.10	179.60	9,878.7	-5,959.8	-5.9	5,959.8	5,959.8	180.06	0.97
15,548.0	89.40	179.10	9,879.2	-6,054.8	-4.8	6,054.8	6,054.8	180.05	0.91
15,643.0	87.60	178.30	9,881.6	-6,149.7	-2.6	6,149.7	6,149.7	180.02	2.07
15,737.0	88.90	178.30	9,884.5	-6,243.6	0.2	6,243.6	6,243.6	180.00	1.38
15,832.0	92.40	180.00	9,883.4	-6,338.6	1.6	6,338.6	6,338.6	179.99	4.10
15,927.0	92.10	179.60	9,879.7	-6,433.5	1.9	6,433.5	6,433.5	179.98	0.53
16,022.0	92.40	178.90	9,876.0	-6,528.4	3.1	6,528.4	6,528.4	179.97	0.80
16,117.0	92.00	181.60	9,872.3	-6,623.4	2.7	6,623.4	6,623.4	179.98	2.87
16,212.0	88.40	180.40	9,872.0	-6,718.3	1.1	6,718.3	6,718.3	179.99	3.99
16,307.0	88.00	180.40	9,875.0	-6,813.3	0.4	6,813.3	6,813.3	180.00	0.42
16,402.0	87.30	179.20	9,878.9	-6,908.2	0.7	6,908.2	6,908.2	179.99	1.46
16,497.0	90.20	180.40	9,881.0	-7,003.2	1.1	7,003.1	7,003.2	179.99	3.30

Stryker Directional

Sterling Pound 20 29 W2DE State Com #1H

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 20-29-23S-27E Sterling Pound 20-29 W2
Well: Sterling Pound 20-29 W2DE State Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Sterling Pound 20-29 W2DE State Com #1H
TVD Reference: 3185 + 25 @ 3210.0usft (Patterson 220)
MD Reference: 3185 + 25 @ 3210.0usft (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)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
16,592.0	90.30	179.80	9,880.5	-7,098.2	0.9	7,098.1	7,098.2	179.99	0.64
16,672.0	89.20	179.30	9,880.9	-7,178.1	1.5	7,178.1	7,178.1	179.99	1.51
16,725.0	89.20	179.30	9,881.6	-7,231.1	2.2	7,231.1	7,231.1	179.98	0.00

16725' MD Projected to Bit

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
16,725.0	9,881.6	-7,231.1	2.2	16725' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Sterling Pound 20-29 W2DE State 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 7.38°

OFFICE: 934.552.7296

GEODETIC ZONE: New Mexico East 3001										
3185 + 25 @ 3210.0usft (Patterson 220)										
GROUND ELEVATION: 3185.0										
+N/-S	+E/-W	North	East	Latitude	Longitude	Slot				
0.0	0.0	471804.90	535672.90	32° 17' 49.400 N	104° 13' 4.382 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	9111.0	1.33	154.05	9107.9	-47.4	-3.1	0.00	0.00	47.4	
2	9300.2	1.33	154.05	9297.1	-51.4	-1.2	0.00	0.00	51.4	
3	10186.6	89.83	179.96	9858.0	-622.5	4.9	10.00	25.92	622.5	
4	17010.3	89.83	179.96	9878.0	-7446.2	9.7	0.00	0.00	7445.2	PBHL Sterling Pound 20-29 W2DE st Com #1H

SHL 150' FNL; 710' FWL
 Section 20-23S-27E
 PBHL 2310' FNL; 710' FWL
 Section 29-23S-27E

