

44965



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 36-24-24S-28E Fleetwood 36-25 W0NK St Com

Fleetwood 36-25 W0NK St Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

27 December, 2018

STRYKER
DIRECTIONAL

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fleetwood 36-25 W0NK St Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Site:	Section 36-24-24S-28E Fleetwood 36-25 W0NK St Com	MD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Well:	Fleetwood 36-25 W0NK St 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 36-24-24S-28E Fleetwood 36-25 W0NK St Com			
Site Position:		Northing:	424,689.50 usft	Latitude:	32° 10' 1.985 N
From:	Map	Easting:	630,951.80 usft	Longitude:	104° 2' 37.383 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Fleetwood 36-25 W0NK St Com 1H					
Well Position	+N/-S	0.0 usft	Northing:	424,689.50 usft	Latitude:	32° 10' 1.985 N
	+E/-W	0.0 usft	Easting:	630,951.80 usft	Longitude:	104° 2' 37.383 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,945.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	09/21/18	7.03	59.92	47,727.96344773

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	177.53

Survey Program		Date	12/27/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
402.0	17,020.0	MWD Survey #1 (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)
402.0	0.82	192.80	402.0	-3.9	0.2	3.9	0.00	0.00	0.00
Phoenix Gryo Survey									
570.0	1.10	141.40	569.9	-6.4	0.9	6.4	0.52	0.17	-30.60
755.0	3.10	88.00	754.8	-7.6	7.0	7.9	1.40	1.08	-28.86
949.0	0.90	351.40	948.7	-5.9	12.0	6.4	1.71	-1.13	-49.79
1,140.0	0.90	327.60	1,139.7	-3.1	11.0	3.6	0.19	0.00	-12.46
1,330.0	0.20	263.50	1,329.7	-1.9	9.9	2.3	0.44	-0.37	-33.74
1,520.0	0.40	254.10	1,519.7	-2.1	8.9	2.5	0.11	0.11	-4.95
1,711.0	0.70	270.60	1,710.7	-2.3	7.1	2.6	0.18	0.16	8.64
1,901.0	0.30	317.60	1,900.7	-1.9	5.6	2.2	0.29	-0.21	24.74

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fleetwood 36-25 W0NK St Com 1H
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Well:	Fleetwood 36-25 W0NK St 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)
2,091.0	0.80	84.90	2,090.7	-1.4	6.6	1.7	0.53	0.26	67.00
2,281.0	1.40	87.90	2,280.6	-1.2	10.2	1.7	0.32	0.32	1.58
2,472.0	2.20	94.30	2,471.5	-1.4	16.2	2.1	0.43	0.42	3.35
2,568.0	1.80	98.80	2,567.5	-1.8	19.5	2.6	0.45	-0.42	4.69
2,693.0	1.60	96.50	2,692.4	-2.3	23.2	3.3	0.17	-0.16	-1.84
2,883.0	4.60	107.10	2,882.1	-4.8	33.1	6.3	1.60	1.58	5.58
3,074.0	4.60	105.00	3,072.5	-9.1	47.9	11.1	0.09	0.00	-1.10
3,263.0	4.40	101.50	3,260.9	-12.5	62.3	15.2	0.18	-0.11	-1.85
3,454.0	4.00	99.60	3,451.4	-15.1	76.0	18.3	0.22	-0.21	-0.99
3,644.0	5.10	100.40	3,640.8	-17.7	90.9	21.6	0.58	0.58	0.42
3,834.0	6.80	111.30	3,829.8	-23.3	109.7	28.0	1.07	0.89	5.74
4,024.0	6.60	110.40	4,018.5	-31.2	130.4	36.8	0.12	-0.11	-0.47
4,214.0	5.80	110.20	4,207.4	-38.3	149.6	44.7	0.42	-0.42	-0.11
4,405.0	5.90	112.00	4,397.4	-45.3	167.8	52.5	0.11	0.05	0.94
4,596.0	6.10	102.10	4,587.3	-51.1	186.8	59.1	0.55	0.10	-5.18
4,786.0	5.60	102.50	4,776.4	-55.2	205.7	64.1	0.26	-0.26	0.21
4,977.0	5.10	101.50	4,966.5	-59.0	223.1	68.5	0.27	-0.26	-0.52
5,167.0	4.10	101.50	5,155.9	-62.0	238.1	72.2	0.53	-0.53	0.00
5,358.0	4.00	102.00	5,346.4	-64.7	251.3	75.5	0.06	-0.05	0.26
5,548.0	3.60	100.60	5,536.0	-67.2	263.6	78.5	0.22	-0.21	-0.74
5,739.0	3.50	104.10	5,726.6	-69.7	275.2	81.5	0.12	-0.05	1.83
5,928.0	3.40	101.30	5,915.3	-72.2	286.3	84.5	0.10	-0.05	-1.48
6,118.0	4.70	96.40	6,104.8	-74.2	299.5	87.1	0.71	0.68	-2.58
6,308.0	4.50	97.80	6,294.2	-76.1	314.6	89.6	0.12	-0.11	0.74
6,498.0	4.70	98.30	6,483.6	-78.2	329.7	92.4	0.11	0.11	0.26
6,687.0	4.80	112.60	6,672.0	-82.4	344.7	97.2	0.63	0.05	7.57
6,874.0	3.50	119.60	6,858.5	-88.2	356.9	103.5	0.74	-0.70	3.74
7,065.0	0.80	91.50	7,049.3	-91.1	363.3	106.7	1.48	-1.41	-14.71
7,256.0	2.50	86.60	7,240.2	-90.9	368.8	106.7	0.89	0.89	-2.57
7,444.0	4.30	97.90	7,427.9	-91.6	379.9	107.9	1.02	0.96	6.01
7,633.0	2.80	90.10	7,616.5	-92.6	391.5	109.4	0.83	-0.79	-4.13
7,822.0	2.90	124.00	7,805.3	-95.3	400.1	112.5	0.88	0.05	17.94
8,013.0	3.60	110.60	7,996.0	-100.1	409.7	117.7	0.54	0.37	-7.02
8,203.0	4.30	109.20	8,185.5	-104.6	422.0	122.7	0.37	0.37	-0.74
8,393.0	4.30	110.80	8,375.0	-109.4	435.4	128.1	0.06	0.00	0.84
8,583.0	2.00	205.10	8,564.8	-115.0	440.6	133.9	2.57	-1.21	49.63
8,774.0	1.10	324.70	8,755.8	-116.5	438.2	135.3	1.42	-0.47	62.62
8,964.0	0.50	230.20	8,945.8	-115.5	436.5	134.2	0.65	-0.32	-49.74
9,118.2	0.98	214.71	9,099.9	-117.0	435.2	135.7	0.33	0.31	-10.05
B.B. Fleetwood 36-25 W0NK St Com 1H									
9,156.0	1.10	213.00	9,137.7	-117.6	434.8	136.2	0.33	0.32	-4.51
9,180.0	1.00	207.50	9,161.7	-118.0	434.6	136.6	0.59	-0.42	-22.92

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Well:	Fleetwood 36-25 W0NK St 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)
9,249.0	2.10	336.30	9,230.7	-117.4	433.8	136.0	4.11	1.59	186.67
9,280.0	6.30	349.80	9,261.6	-115.2	433.3	133.7	13.83	13.55	43.55
9,312.0	10.20	359.80	9,293.3	-110.6	433.0	129.2	12.94	12.19	31.25
9,343.0	13.60	4.20	9,323.6	-104.2	433.2	122.8	11.34	10.97	14.19
9,375.0	15.80	2.90	9,354.6	-96.1	433.7	114.7	6.95	6.88	-4.06
9,407.0	21.00	2.00	9,384.9	-86.0	434.1	104.7	16.27	16.25	-2.81
9,439.0	26.00	2.10	9,414.3	-73.3	434.6	92.0	15.63	15.63	0.31
9,471.0	30.50	3.70	9,442.4	-58.2	435.4	76.9	14.26	14.06	5.00
9,503.0	34.30	5.80	9,469.5	-41.1	436.8	59.9	12.38	11.88	6.56
9,535.0	38.20	7.30	9,495.3	-22.3	439.0	41.2	12.50	12.19	4.69
9,566.0	41.40	6.70	9,519.1	-2.6	441.4	21.6	10.40	10.32	-1.94
9,598.0	45.80	5.40	9,542.2	19.3	443.7	-0.2	14.03	13.75	-4.06
9,629.0	48.30	3.00	9,563.4	42.0	445.4	-22.7	9.86	8.06	-7.74
9,660.0	50.10	1.50	9,583.6	65.4	446.3	-46.1	6.86	5.81	-4.84
9,692.0	53.80	0.70	9,603.3	90.6	446.8	-71.3	11.73	11.56	-2.50
9,724.0	56.90	359.70	9,621.5	116.9	446.9	-97.6	10.02	9.69	-3.13
9,756.0	59.20	358.20	9,638.5	144.1	446.4	-124.7	8.21	7.19	-4.69
9,788.0	61.80	356.90	9,654.2	171.9	445.2	-152.5	8.86	8.13	-4.06
9,820.0	64.80	356.10	9,668.6	200.4	443.4	-181.1	9.64	9.38	-2.50
9,852.0	68.30	356.00	9,681.3	229.7	441.4	-210.5	10.94	10.94	-0.31
9,883.0	72.00	356.20	9,691.9	258.8	439.4	-239.6	11.95	11.94	0.65
9,915.0	75.80	356.90	9,700.7	289.5	437.6	-270.3	12.06	11.88	2.19
9,947.0	78.60	357.50	9,707.8	320.6	436.0	-301.5	8.94	8.75	1.88
9,970.0	80.60	358.20	9,712.0	343.2	435.2	-324.2	9.20	8.70	3.04
10,020.0	83.80	0.20	9,718.8	392.8	434.5	-373.7	7.53	6.40	4.00
10,084.0	87.80	0.50	9,723.4	456.6	434.9	-437.4	6.27	6.25	0.47
10,104.6	88.47	0.67	9,724.1	477.2	435.1	-458.0	3.33	3.23	0.83
LP Fleetwood 36-25 W0NK St Com 1H									
10,180.0	90.90	1.30	9,724.5	552.5	436.4	-533.2	3.33	3.23	0.83
10,275.0	89.80	0.60	9,723.9	647.5	438.0	-628.0	1.37	-1.16	-0.74
10,371.0	91.50	2.80	9,722.9	743.5	440.8	-723.8	2.90	1.77	2.29
10,466.0	87.10	359.10	9,724.0	838.4	442.4	-818.6	6.05	-4.63	-3.89
10,561.0	86.30	359.30	9,729.5	933.2	441.1	-913.4	0.87	-0.84	0.21
10,656.0	87.10	359.10	9,735.0	1,028.1	439.7	-1,008.2	0.87	0.84	-0.21
10,751.0	91.30	0.80	9,736.3	1,123.0	439.7	-1,103.0	4.77	4.42	1.79
10,846.0	90.30	359.90	9,735.0	1,218.0	440.2	-1,197.9	1.42	-1.05	-0.95
10,940.0	93.90	359.30	9,731.5	1,311.9	439.6	-1,291.8	3.88	3.83	-0.64
11,035.0	94.20	359.20	9,724.8	1,406.7	438.3	-1,386.5	0.33	0.32	-0.11
11,130.0	90.40	359.30	9,721.0	1,501.6	437.1	-1,481.4	4.00	-4.00	0.11
11,226.0	90.20	359.30	9,720.5	1,597.6	435.9	-1,577.3	0.21	-0.21	0.00
11,321.0	87.50	357.90	9,722.4	1,692.5	433.6	-1,672.3	3.20	-2.84	-1.47
11,416.0	93.90	0.60	9,721.2	1,787.5	432.4	-1,767.2	7.31	6.74	2.84
11,511.0	88.50	359.40	9,719.2	1,882.4	432.4	-1,862.0	5.82	-5.68	-1.26

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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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)	
11,606.0	88.40	359.10	9,721.8	1,977.4	431.1	-1,956.9	0.33	-0.11	-0.32	
11,701.0	90.00	355.20	9,723.1	2,072.2	426.4	-2,051.9	4.44	1.68	-4.11	
11,797.0	93.00	354.90	9,720.6	2,167.8	418.1	-2,147.8	3.14	3.13	-0.31	
11,892.0	90.60	354.40	9,717.6	2,262.3	409.3	-2,242.6	2.58	-2.53	-0.53	
11,987.0	88.20	358.70	9,718.6	2,357.1	403.6	-2,337.5	5.18	-2.53	4.53	
12,082.0	90.00	1.40	9,720.1	2,452.1	403.6	-2,432.4	3.42	1.89	2.84	
12,176.0	90.40	1.50	9,719.8	2,546.1	406.0	-2,526.2	0.44	0.43	0.11	
12,270.0	93.90	4.50	9,716.3	2,639.9	410.9	-2,619.7	4.90	3.72	3.19	
12,365.0	90.30	3.90	9,712.8	2,734.5	417.9	-2,714.0	3.84	-3.79	-0.63	
12,460.0	88.50	3.70	9,713.8	2,829.3	424.2	-2,808.4	1.91	-1.89	-0.21	
12,555.0	92.60	3.60	9,712.9	2,924.1	430.2	-2,902.8	4.32	4.32	-0.11	
12,650.0	89.30	1.90	9,711.3	3,019.0	434.8	-2,997.4	3.91	-3.47	-1.79	
12,745.0	90.60	2.00	9,711.4	3,113.9	438.0	-3,092.1	1.37	1.37	0.11	
12,841.0	90.60	358.30	9,710.4	3,209.9	438.3	-3,188.0	3.85	0.00	-3.85	
12,936.0	88.40	354.00	9,711.2	3,304.6	431.9	-3,282.9	5.08	-2.32	-4.53	
13,031.0	92.10	356.10	9,710.8	3,399.2	423.7	-3,377.8	4.48	3.89	2.21	
13,126.0	91.50	353.10	9,707.8	3,493.8	414.8	-3,472.6	3.22	-0.63	-3.16	
13,221.0	89.80	355.70	9,706.7	3,588.3	405.5	-3,567.5	3.27	-1.79	2.74	
13,315.0	89.10	0.50	9,707.6	3,682.2	402.4	-3,661.4	5.16	-0.74	5.11	
13,410.0	91.80	0.80	9,706.9	3,777.2	403.4	-3,756.3	2.86	2.84	0.32	
13,505.0	91.30	4.30	9,704.3	3,872.1	407.7	-3,850.9	3.72	-0.53	3.68	
13,600.0	88.70	3.60	9,704.3	3,966.8	414.2	-3,945.3	2.83	-2.74	-0.74	
13,695.0	92.70	7.50	9,703.2	4,061.3	423.4	-4,039.3	5.88	4.21	4.11	
13,790.0	89.50	9.90	9,701.3	4,155.2	437.8	-4,132.5	4.21	-3.37	2.53	
13,885.0	89.80	15.10	9,701.9	4,247.9	458.3	-4,224.2	5.48	0.32	5.47	
13,981.0	88.20	9.10	9,703.6	4,341.7	478.4	-4,317.1	6.47	-1.67	-6.25	
14,076.0	89.70	1.20	9,705.3	4,436.2	486.9	-4,411.1	8.46	1.58	-8.32	
14,171.0	89.40	357.30	9,706.1	4,531.2	485.7	-4,506.1	4.12	-0.32	-4.11	
14,266.0	96.50	358.30	9,701.2	4,626.0	482.1	-4,600.9	7.55	7.47	1.05	
14,361.0	93.60	356.80	9,692.8	4,720.5	478.0	-4,695.5	3.43	-3.05	-1.58	
14,456.0	91.30	357.70	9,688.8	4,815.3	473.5	-4,790.4	2.60	-2.42	0.95	
14,552.0	90.20	356.90	9,687.5	4,911.2	468.9	-4,886.4	1.42	-1.15	-0.83	
14,646.0	89.50	356.60	9,687.8	5,005.0	463.6	-4,980.4	0.81	-0.74	-0.32	
14,741.0	91.60	358.50	9,686.9	5,099.9	459.6	-5,075.4	2.98	2.21	2.00	
14,836.0	90.60	358.00	9,685.0	5,194.9	456.6	-5,170.3	1.18	-1.05	-0.53	
14,931.0	89.50	357.70	9,684.9	5,289.8	453.1	-5,265.3	1.20	-1.16	-0.32	
15,026.0	91.00	358.50	9,684.5	5,384.7	449.9	-5,360.3	1.79	1.58	0.84	
15,120.0	89.70	358.40	9,684.0	5,478.7	447.4	-5,454.3	1.39	-1.38	-0.11	
15,215.0	89.50	358.40	9,684.6	5,573.6	444.7	-5,549.3	0.21	-0.21	0.00	
15,310.0	90.70	359.30	9,684.5	5,668.6	442.8	-5,644.3	1.58	1.26	0.95	
15,405.0	89.30	359.10	9,684.5	5,763.6	441.5	-5,739.2	1.49	-1.47	-0.21	
15,500.0	91.00	359.90	9,684.2	5,858.6	440.7	-5,834.2	1.98	1.79	0.84	
15,594.0	89.70	358.50	9,683.6	5,952.6	439.4	-5,928.1	2.03	-1.38	-1.49	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fleetwood 36-25 W0NK St Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Site:	Section 36-24-24S-28E Fleetwood 36-25 W0NK St Com	MD Reference:	2945 + 27 @ 2972.0usft (Patterson 562)
Well:	Fleetwood 36-25 W0NK St 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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
15,689.0	88.60	358.10	9,685.0	6,047.5	436.5	-6,023.1	1.23	-1.16	-0.42
15,784.0	88.30	358.30	9,687.6	6,142.5	433.6	-6,118.1	0.38	-0.32	0.21
15,879.0	90.00	358.80	9,689.0	6,237.4	431.2	-6,213.0	1.87	1.79	0.53
15,974.0	90.40	359.10	9,688.7	6,332.4	429.4	-6,308.0	0.53	0.42	0.32
16,070.0	90.30	358.80	9,688.1	6,428.4	427.7	-6,404.0	0.33	-0.10	-0.31
16,165.0	90.20	358.40	9,687.7	6,523.3	425.3	-6,498.9	0.43	-0.11	-0.42
16,260.0	89.90	358.40	9,687.6	6,618.3	422.7	-6,593.9	0.32	-0.32	0.00
16,355.0	89.90	357.80	9,687.8	6,713.3	419.5	-6,688.9	0.63	0.00	-0.63
16,449.0	90.60	357.70	9,687.4	6,807.2	415.8	-6,782.9	0.75	0.74	-0.11
16,544.0	90.30	357.80	9,686.6	6,902.1	412.1	-6,877.9	0.33	-0.32	0.11
16,639.0	89.00	357.20	9,687.2	6,997.0	408.0	-6,972.9	1.51	-1.37	-0.63
16,734.0	88.70	357.20	9,689.1	7,091.9	403.3	-7,067.9	0.32	-0.32	0.00
16,829.0	92.00	359.20	9,688.5	7,186.8	400.4	-7,162.9	4.06	3.47	2.11
16,924.0	89.00	358.40	9,687.7	7,281.8	398.4	-7,257.8	3.27	-3.16	-0.84
16,975.0	88.60	358.30	9,688.8	7,332.7	396.9	-7,308.8	0.81	-0.78	-0.20
17,020.0	88.60	358.30	9,689.9	7,377.7	395.6	-7,353.8	0.00	0.00	0.00
17020.0' MD Projected to Bit - PBHL Fleetwood 36-24 W0NK St Com 1H									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
402.0	402.0	-3.9	0.2	Phoenix Gryo Survey
17,020.0	9,689.9	7,377.7	395.6	17020.0' MD Projected to Bit