

NM OIL CONSERVATION
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15-42936

Mewbourne Oil Company .

Eddy County, New Mexico

Section 3-24S-28E Yardbirds 3 W2DM Fee #1H

Yardbirds 3 W2DM Fee #1H

Original Hole

Design: Original Hole

Standard Survey Report

21 April, 2015

↓
Provide signature page for Survey





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Yardbirds 3 W2DM Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	3042 + 20 @ 3062.0usft (Patterson # 243)
Site:	Section 3-24S-28E Yardbirds 3 W2DM Fee #1H	MD Reference:	3042 + 20 @ 3062.0usft (Patterson # 243)
Well:	Yardbirds 3 W2DM Fee #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	Section 3-24S-28E Yardbirds 3 W2DM Fee #1H		
Site Position:		Northing:	456,087.20 usft
From:	Map	Easting:	578,333.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 13.128 N
		Longitude:	104° 4' 47.789 W
		Grid Convergence:	0.14 °

Well	Yardbirds 3 W2DM Fee #1H		
Well Position	+N/-S	0.0 usft	Northing: 456,087.20 usft
	+E/-W	0.0 usft	Easting: 578,333.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 15' 13.128 N
		Longitude:	104° 4' 47.789 W
		Ground Level:	3,042.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	3/19/2015	7.43
			Dip Angle (°) 60.03
			Field Strength (nT) 48,134

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)
	0.0	0.0	0.0
			Direction (°) 187.27

Survey Program	Date 4/21/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	9,630.0	VES Gyro Survey #1 (Original Hole)	NSG-CT_WL
9,812.0	14,830.0	MWD Survey #2 (Original Hole)	MWD
			Description
			Continuous north-seeking gyro on wireline
			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	0.20	286.89	100.0	0.1	-0.2	0.0	0.20	0.20	0.00	
200.0	0.19	320.69	200.0	0.2	-0.4	-0.2	0.11	-0.01	33.80	
300.0	0.17	308.15	300.0	0.4	-0.7	-0.4	0.04	-0.02	-12.54	
400.0	0.10	319.16	400.0	0.6	-0.8	-0.5	0.07	-0.07	11.01	
500.0	0.25	337.59	500.0	0.9	-1.0	-0.7	0.16	0.15	18.43	
600.0	0.17	300.46	600.0	1.2	-1.2	-1.0	0.15	-0.08	-37.13	
700.0	0.11	291.40	700.0	1.3	-1.4	-1.1	0.06	-0.06	-9.06	
800.0	0.05	273.52	800.0	1.3	-1.5	-1.1	0.06	-0.06	-17.88	
900.0	0.20	290.04	900.0	1.4	-1.7	-1.1	0.15	0.15	16.52	



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Site:	Section 3-24S-28E Yardbirds 3 W2DM Fee #1H	MD Reference:	3042 + 20 @ 3062.0usft (Patterson # 243)
Well:	Yardbirds 3 W2DM Fee #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)
1,000.0	0.37	283.97	1,000.0	1.5	-2.2	-1.2	0.17	0.17	-6.07
1,100.0	0.35	270.47	1,100.0	1.6	-2.8	-1.2	0.09	-0.02	-13.50
1,200.0	0.28	282.15	1,200.0	1.6	-3.4	-1.2	0.09	-0.07	11.68
1,300.0	0.39	279.12	1,300.0	1.7	-4.0	-1.2	0.11	0.11	-3.03
1,400.0	0.40	251.17	1,400.0	1.7	-4.6	-1.1	0.19	0.01	-27.95
1,500.0	0.23	328.19	1,500.0	1.7	-5.1	-1.1	0.41	-0.17	77.02
1,600.0	0.18	304.20	1,600.0	2.0	-5.3	-1.3	0.10	-0.05	-23.99
1,700.0	0.05	330.68	1,700.0	2.1	-5.4	-1.4	0.14	-0.13	26.48
1,800.0	0.56	56.83	1,800.0	2.4	-5.1	-1.8	0.56	0.51	86.15
1,900.0	1.38	70.10	1,900.0	3.1	-3.5	-2.6	0.84	0.82	13.27
2,000.0	1.63	54.27	1,999.9	4.3	-1.2	-4.2	0.48	0.25	-15.83
2,100.0	1.43	57.17	2,099.9	5.9	1.0	-5.9	0.21	-0.20	2.90
2,200.0	2.82	88.09	2,199.8	6.6	4.5	-7.1	1.75	1.39	30.92
2,300.0	4.53	96.10	2,299.6	6.3	10.9	-7.6	1.78	1.71	8.01
2,400.0	5.30	93.30	2,399.3	5.6	19.4	-8.0	0.81	0.77	-2.80
2,500.0	4.79	96.74	2,498.9	4.8	28.2	-8.4	0.59	-0.51	3.44
2,600.0	4.09	98.83	2,598.6	3.8	35.8	-8.3	0.72	-0.70	2.09
2,700.0	3.87	102.33	2,698.3	2.5	42.6	-7.9	0.33	-0.22	3.50
2,800.0	3.68	103.15	2,798.1	1.1	49.1	-7.3	0.20	-0.19	0.82
2,900.0	3.41	104.18	2,897.9	-0.4	55.1	-6.6	0.28	-0.27	1.03
3,000.0	3.20	107.19	2,997.8	-1.9	60.6	-5.8	0.27	-0.21	3.01
3,100.0	2.94	107.21	3,097.6	-3.5	65.7	-4.8	0.26	-0.26	0.02
3,200.0	2.89	108.58	3,197.5	-5.1	70.6	-3.9	0.09	-0.05	1.37
3,300.0	2.68	107.38	3,297.4	-6.6	75.2	-3.0	0.22	-0.21	-1.20
3,400.0	2.26	111.22	3,397.3	-8.0	79.3	-2.1	0.45	-0.42	3.84
3,500.0	1.76	114.85	3,497.2	-9.4	82.5	-1.2	0.52	-0.50	3.63
3,600.0	1.11	123.29	3,597.2	-10.5	84.7	-0.3	0.68	-0.65	8.44
3,700.0	1.08	132.77	3,697.2	-11.7	86.2	0.7	0.18	-0.03	9.48
3,800.0	0.96	128.69	3,797.1	-12.9	87.6	1.7	0.14	-0.12	-4.08
3,900.0	0.98	135.63	3,897.1	-14.0	88.8	2.6	0.12	0.02	6.94
4,000.0	0.89	138.08	3,997.1	-15.2	89.9	3.7	0.10	-0.09	2.45
4,100.0	1.00	133.82	4,097.1	-16.4	91.1	4.7	0.13	0.11	-4.26
4,200.0	0.79	140.65	4,197.1	-17.5	92.1	5.7	0.24	-0.21	6.83
4,300.0	0.84	149.48	4,297.1	-18.7	93.0	6.8	0.14	0.05	8.83
4,400.0	0.81	154.82	4,397.1	-19.9	93.6	7.9	0.08	-0.03	5.34
4,500.0	0.73	159.73	4,497.1	-21.2	94.1	9.1	0.10	-0.08	4.91
4,600.0	0.79	163.63	4,597.0	-22.4	94.6	10.3	0.08	0.06	3.90
4,700.0	0.76	180.86	4,697.0	-23.8	94.7	11.6	0.23	-0.03	17.23
4,800.0	0.76	198.70	4,797.0	-25.1	94.5	12.9	0.24	0.00	17.84
4,900.0	0.81	191.52	4,897.0	-26.4	94.2	14.2	0.11	0.05	-7.18
5,000.0	0.70	208.32	4,997.0	-27.6	93.7	15.5	0.25	-0.11	16.80
5,100.0	0.76	221.48	5,097.0	-28.6	93.0	16.6	0.18	0.06	13.16
5,200.0	0.56	229.65	5,197.0	-29.5	92.2	17.6	0.22	-0.20	8.17



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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)	
5,300.0	0.82	215.39	5,297.0	-30.4	91.4	18.5	0.31	0.26	-14.26	
5,400.0	0.74	181.23	5,397.0	-31.6	91.0	19.8	0.46	-0.08	-34.16	
5,500.0	0.52	229.96	5,497.0	-32.5	90.6	20.8	0.56	-0.22	48.73	
5,600.0	0.45	198.76	5,597.0	-33.2	90.1	21.5	0.27	-0.07	-31.20	
5,700.0	0.51	174.89	5,697.0	-34.0	90.1	22.3	0.21	0.06	-23.87	
5,800.0	0.72	222.92	5,797.0	-34.9	89.7	23.3	0.54	0.21	48.03	
5,900.0	0.57	177.61	5,897.0	-35.9	89.3	24.3	0.52	-0.15	-45.31	
6,000.0	0.70	192.28	5,997.0	-37.0	89.2	25.4	0.21	0.13	14.67	
6,100.0	0.62	207.86	6,096.9	-38.0	88.8	26.5	0.20	-0.08	15.58	
6,200.0	0.64	206.59	6,196.9	-39.0	88.3	27.5	0.02	0.02	-1.27	
6,300.0	0.52	224.21	6,296.9	-39.8	87.7	28.4	0.21	-0.12	17.62	
6,400.0	0.89	233.60	6,396.9	-40.6	86.8	29.3	0.39	0.37	9.39	
6,500.0	0.81	247.74	6,496.9	-41.3	85.5	30.2	0.22	-0.08	14.14	
6,600.0	0.77	284.65	6,596.9	-41.4	84.2	30.5	0.50	-0.04	36.91	
6,700.0	0.72	249.34	6,696.9	-41.5	82.9	30.7	0.45	-0.05	-35.31	
6,800.0	0.47	198.54	6,796.9	-42.1	82.2	31.4	0.56	-0.25	-50.80	
6,900.0	0.76	178.94	6,896.9	-43.2	82.1	32.4	0.35	0.29	-19.60	
7,000.0	0.98	172.40	6,996.9	-44.7	82.2	33.9	0.24	0.22	-6.54	
7,100.0	0.88	154.64	7,096.9	-46.2	82.7	35.4	0.30	-0.10	-17.76	
7,200.0	1.22	171.20	7,196.8	-48.0	83.2	37.0	0.45	0.34	16.56	
7,300.0	1.01	191.05	7,296.8	-49.9	83.2	39.0	0.44	-0.21	19.85	
7,400.0	1.23	182.32	7,396.8	-51.8	82.9	40.9	0.28	0.22	-8.73	
7,500.0	1.81	176.10	7,496.8	-54.5	83.0	43.5	0.60	0.58	-6.22	
7,600.0	3.57	160.14	7,596.7	-59.0	84.2	47.8	1.90	1.76	-15.96	
7,700.0	3.73	156.60	7,696.5	-64.9	86.5	53.4	0.28	0.16	-3.54	
7,800.0	3.40	162.91	7,796.3	-70.7	88.7	58.9	0.51	-0.33	6.31	
7,900.0	3.19	183.73	7,896.1	-76.3	89.4	64.4	1.21	-0.21	20.82	
8,000.0	3.27	195.39	7,995.9	-81.8	88.4	70.0	0.66	0.08	11.66	
8,100.0	3.17	199.56	8,095.8	-87.2	86.8	75.5	0.25	-0.10	4.17	
8,200.0	2.60	198.77	8,195.7	-91.9	85.1	80.4	0.57	-0.57	-0.79	
8,300.0	1.94	218.52	8,295.6	-95.4	83.3	84.1	1.01	-0.66	19.75	
8,400.0	1.57	226.41	8,395.5	-97.7	81.3	86.6	0.44	-0.37	7.89	
8,500.0	1.55	223.74	8,495.5	-99.6	79.3	88.8	0.08	-0.02	-2.67	
8,600.0	1.36	207.07	8,595.5	-101.6	77.9	91.0	0.46	-0.19	-16.67	
8,700.0	1.42	183.11	8,695.4	-103.9	77.3	93.3	0.58	0.06	-23.96	
8,800.0	1.40	149.90	8,795.4	-106.2	77.8	95.5	0.81	-0.02	-33.21	
8,900.0	1.06	158.67	8,895.4	-108.1	78.8	97.3	0.39	-0.34	8.77	
9,000.0	0.76	153.11	8,995.4	-109.6	79.4	98.7	0.31	-0.30	-5.56	
9,100.0	0.69	165.24	9,095.4	-110.8	79.8	99.8	0.17	-0.07	12.13	
9,200.0	0.83	151.13	9,195.4	-112.0	80.3	100.9	0.23	0.14	-14.11	
9,300.0	0.42	161.17	9,295.4	-113.0	80.8	101.8	0.42	-0.41	10.04	
9,400.0	0.71	203.60	9,395.3	-113.9	80.7	102.8	0.49	0.29	42.43	
9,500.0	0.90	192.80	9,495.3	-115.2	80.3	104.1	0.24	0.19	-10.80	



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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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)
9,630.0	0.62	203.58	9,625.3	-116.9	79.8	105.8	0.24	-0.22	8.29
9630' MD VES Gyro Survey									
9,812.0	3.60	213.60	9,807.2	-122.5	76.2	111.9	1.64	1.64	5.51
9,844.0	6.60	226.60	9,839.1	-124.6	74.3	114.2	9.99	9.38	40.63
9,875.0	9.50	232.20	9,869.7	-127.4	71.0	117.4	9.68	9.35	18.06
9,907.0	12.70	227.40	9,901.1	-131.4	66.3	122.0	10.40	10.00	-15.00
9,939.0	16.50	225.40	9,932.1	-137.0	60.5	128.2	11.98	11.88	-6.25
9,970.0	20.00	226.30	9,961.5	-143.7	53.5	135.8	11.33	11.29	2.90
10,002.0	22.60	224.20	9,991.4	-151.9	45.3	145.0	8.47	8.13	-6.56
10,033.0	24.90	220.30	10,019.7	-161.2	36.9	155.2	8.98	7.42	-12.58
10,066.0	26.70	217.00	10,049.4	-172.4	27.9	167.5	6.98	5.45	-10.00
10,097.0	28.20	214.60	10,076.9	-184.0	19.6	180.0	6.01	4.84	-7.74
10,129.0	31.30	212.30	10,104.7	-197.3	10.9	194.3	10.32	9.69	-7.19
10,160.0	34.60	212.00	10,130.7	-211.5	1.9	209.6	10.66	10.65	-0.97
10,192.0	37.90	210.50	10,156.5	-227.7	-7.9	226.9	10.68	10.31	-4.69
10,224.0	40.80	207.10	10,181.3	-245.5	-17.7	245.7	11.29	9.06	-10.63
10,255.0	43.40	203.10	10,204.3	-264.3	-26.5	265.5	12.05	8.39	-12.90
10,287.0	44.80	201.30	10,227.3	-284.9	-34.9	287.0	5.87	4.38	-5.63
10,319.0	46.40	200.50	10,249.7	-306.3	-43.0	309.3	5.31	5.00	-2.50
10,351.0	48.40	200.00	10,271.3	-328.4	-51.2	332.2	6.35	6.25	-1.56
10,382.0	50.30	198.30	10,291.5	-350.6	-58.9	355.2	7.41	6.13	-5.48
10,413.0	52.90	195.50	10,310.8	-373.8	-65.9	379.2	10.97	8.39	-9.03
10,444.0	55.40	193.40	10,328.9	-398.2	-72.2	404.1	9.76	8.06	-6.77
10,475.0	57.60	193.30	10,346.0	-423.3	-78.2	429.8	7.10	7.10	-0.32
10,507.0	61.20	193.10	10,362.3	-450.1	-84.5	457.2	11.26	11.25	-0.63
10,539.0	64.70	190.50	10,376.9	-478.0	-90.3	485.6	13.11	10.94	-8.13
10,570.0	65.70	188.40	10,389.9	-505.8	-94.9	513.7	6.94	3.23	-6.77
10,651.0	67.90	186.20	10,421.8	-579.6	-104.3	588.2	3.69	2.72	-2.72
10,662.8	68.30	186.13	10,426.2	-590.5	-105.5	599.1	3.49	3.44	-0.63
LP Yardbird 3 W2DM Fee #1H									
10,683.0	69.00	186.00	10,433.5	-609.2	-107.5	617.9	3.49	3.44	-0.62
10,714.0	71.10	186.50	10,444.1	-638.2	-110.7	647.1	6.94	6.77	1.61
10,746.0	76.00	185.50	10,453.2	-668.7	-113.9	677.7	15.60	15.31	-3.13
10,777.0	84.70	182.70	10,458.4	-699.1	-116.1	708.2	29.44	28.06	-9.03
10,809.0	88.60	182.90	10,460.2	-731.0	-117.6	740.0	12.20	12.19	0.63
10,841.0	88.40	184.20	10,461.1	-763.0	-119.6	772.0	4.11	-0.63	4.06
10,873.0	88.50	184.20	10,461.9	-794.9	-121.9	803.9	0.31	0.31	0.00
10,936.0	90.80	186.90	10,462.3	-857.6	-128.0	866.9	5.63	3.65	4.29
11,030.0	91.80	186.70	10,460.2	-950.9	-139.2	960.8	1.08	1.06	-0.21
11,125.0	91.10	188.80	10,457.8	-1,045.0	-152.0	1,055.8	2.33	-0.74	2.21
11,219.0	89.70	190.60	10,457.1	-1,137.6	-167.8	1,149.7	2.43	-1.49	1.91
11,313.0	88.20	191.10	10,458.9	-1,229.9	-185.5	1,243.5	1.68	-1.60	0.53
11,408.0	88.70	191.20	10,461.4	-1,323.1	-203.9	1,338.3	0.54	0.53	0.11
11,502.0	88.70	190.60	10,463.6	-1,415.4	-221.6	1,432.0	0.64	0.00	-0.64



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Yardbirds 3 W2DM Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	3042 + 20 @ 3062.0usft (Patterson # 243)
Site:	Section 3-24S-28E Yardbirds 3 W2DM Fee #1H	MD Reference:	3042 + 20 @ 3062.0usft (Patterson # 243)
Well:	Yardbirds 3 W2DM Fee #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)
11,596.0	89.30	189.20	10,465.2	-1,508.0	-237.8	1,525.9	1.62	0.64	-1.49
11,691.0	90.80	189.90	10,465.1	-1,601.6	-253.5	1,620.8	1.74	1.58	0.74
11,786.0	90.80	189.10	10,463.8	-1,695.3	-269.2	1,715.8	0.84	0.00	-0.84
11,881.0	91.90	189.50	10,461.5	-1,789.0	-284.6	1,810.7	1.23	1.16	0.42
11,975.0	89.90	188.90	10,460.1	-1,881.8	-299.6	1,904.6	2.22	-2.13	-0.64
12,070.0	88.70	187.50	10,461.2	-1,975.8	-313.1	1,999.6	1.94	-1.26	-1.47
12,164.0	88.20	186.30	10,463.8	-2,069.1	-324.4	2,093.5	1.38	-0.53	-1.28
12,258.0	89.50	185.80	10,465.7	-2,162.6	-334.3	2,187.5	1.48	1.38	-0.53
12,353.0	89.60	186.40	10,466.4	-2,257.0	-344.4	2,282.5	0.64	0.11	0.63
12,447.0	89.30	186.30	10,467.3	-2,350.5	-354.8	2,376.5	0.34	-0.32	-0.11
12,542.0	87.80	185.60	10,469.7	-2,444.9	-364.7	2,471.4	1.74	-1.58	-0.74
12,636.0	88.00	186.30	10,473.2	-2,538.3	-374.4	2,565.3	0.77	0.21	0.74
12,730.0	92.90	187.30	10,472.4	-2,631.6	-385.5	2,659.3	5.32	5.21	1.06
12,825.0	92.40	186.80	10,468.0	-2,725.8	-397.2	2,754.2	0.74	-0.53	-0.53
12,920.0	89.60	184.20	10,466.4	-2,820.4	-406.3	2,849.1	4.02	-2.95	-2.74
13,015.0	91.80	184.80	10,465.2	-2,915.1	-413.7	2,944.0	2.40	2.32	0.63
13,111.0	92.70	185.00	10,461.4	-3,010.6	-421.9	3,039.8	0.96	0.94	0.21
13,205.0	92.30	184.80	10,457.3	-3,104.2	-430.0	3,133.6	0.48	-0.43	-0.21
13,299.0	91.40	185.80	10,454.3	-3,197.7	-438.6	3,227.5	1.43	-0.96	1.06
13,394.0	89.70	186.20	10,453.4	-3,292.2	-448.6	3,322.5	1.84	-1.79	0.42
13,488.0	89.80	186.50	10,453.8	-3,385.6	-459.0	3,416.5	0.34	0.11	0.32
13,583.0	88.80	186.40	10,455.0	-3,480.0	-469.6	3,511.5	1.06	-1.05	-0.11
13,677.0	88.90	186.80	10,456.9	-3,573.4	-480.4	3,605.5	0.44	0.11	0.43
13,772.0	89.80	187.30	10,457.9	-3,667.7	-492.1	3,700.4	1.08	0.95	0.53
13,866.0	88.80	186.90	10,459.1	-3,760.9	-503.7	3,794.4	1.15	-1.06	-0.43
13,961.0	90.60	186.90	10,459.6	-3,855.2	-515.1	3,889.4	1.89	1.89	0.00
14,055.0	92.10	187.00	10,457.4	-3,948.5	-526.5	3,983.4	1.60	1.60	0.11
14,150.0	91.30	187.70	10,454.5	-4,042.7	-538.6	4,078.4	1.12	-0.84	0.74
14,245.0	91.50	187.50	10,452.2	-4,136.8	-551.2	4,173.3	0.30	0.21	-0.21
14,340.0	91.00	187.80	10,450.1	-4,231.0	-563.8	4,268.3	0.61	-0.53	0.32
14,435.0	89.40	187.90	10,449.8	-4,325.1	-576.8	4,363.3	1.69	-1.68	0.11
14,528.0	89.70	188.00	10,450.5	-4,417.2	-589.7	4,456.3	0.34	0.32	0.11
14,624.0	89.80	188.00	10,451.0	-4,512.2	-603.0	4,552.3	0.10	0.10	0.00
14,718.0	90.40	188.00	10,450.8	-4,605.3	-616.1	4,646.3	0.64	0.64	0.00
14,786.0	92.40	188.00	10,449.1	-4,672.6	-625.6	4,714.2	2.94	2.94	0.00
14,830.0	92.40	188.00	10,447.3	-4,716.2	-631.7	4,758.2	0.00	0.00	0.00
14830' MD Projected to Bit - PBHL Yardbird 3 W2DM Fee #1H									



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Yardbirds 3 W2DM Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	3042 + 20 @ 3062.0usft (Patterson # 243)
Site:	Section 3-24S-28E Yardbirds 3 W2DM Fee #1H	MD Reference:	3042 + 20 @ 3062.0usft (Patterson # 243)
Well:	Yardbirds 3 W2DM Fee #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,630.0	9,625.3	-116.9	79.8	9630' MD VES Gyro Survey
14,830.0	10,447.3	-4,716.2	-631.7	14830' MD Projected to Bit



COMPANY: Mewbourne Oil Company.
WELL: Yardbirds 3 W2DM Fee #1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson # 243



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.30°

OFFICE: 936.582.7296

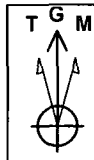
GEODETIC ZONE: New Mexico East 3001
3042 + 20 @ 3062.0usft (Patterson # 243)

GROUND ELEVATION: 3042.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	456087.20	578333.30	32° 15' 13.128 N	104° 4' 47.789 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	9630.0	0.62	203.58	9625.3	-116.9	79.8	0.00	0.00	105.8	
2	9830.0	0.62	203.58	9825.3	-118.8	78.9	0.00	0.00	107.9	
3	9949.3	14.05	298.08	9943.5	-112.6	65.8	11.82	96.96	103.4	
4	10753.3	90.00	186.77	10457.0	-577.8	-110.0	11.82	-110.73	587.0	LP Yardbird 3 W2DM Fee #1H
5	14928.6	90.00	186.77	10457.0	-4724.0	-602.2	0.00	0.00	4762.2	PBHL Yardbird 3 W2DM Fee #1H



Azimuths to Grid North
True North: -0.14°
Magnetic North: 7.30°

Magnetic Field
Strength: 48134.3snT
Dip Angle: 60.03°
Date: 3/19/2015
Model: IGRF2015

SHL : Section3-24S-28E

PBHL:Section3-24S-28E

