



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H

Gazelle 22 B2MD Fed Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

23 July, 2018



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gazelle 22 B2MD Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Site:	Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B2MD Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea 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 22-23S-34E Gazelle 22 B2MD Fed Com #2H					
Site Position:		Northing:		467,921.70 usft		Latitude:		32° 17' 0.232 N			
From:		Map		Easting:		810,014.80 usft		Longitude:		103° 27' 50.143 W	
Position Uncertainty:		0.0 usft		Slot Radius:		13-3/16 "		Grid Convergence:		0.46 °	

Well	Gazelle 22 B2MD Fed Com #2H					
Well Position	+N/-S	0.0 usft	Northing:	467,921.70 usft	Latitude:	32° 17' 0.232 N
	+E/-W	0.0 usft	Easting:	810,014.80 usft	Longitude:	103° 27' 50.143 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,491.0 usft

Wellbore	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/25/2018	6.81	60.12	47,887.72336472

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	33.42

Survey Program		Date 7/23/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,124.0	15,405.0	Survey #1 (Original Hole)	MWD	MWD v3:standard declination

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)
925.0	0.37	2.79	925.0	-3.3	4.0	-0.5	0.00	0.00	0.00
1,124.0	1.10	28.10	1,124.0	-0.9	5.0	1.9	0.39	0.37	12.72
1,217.0	1.10	32.20	1,216.9	0.6	5.8	3.7	0.08	0.00	4.41
1,311.0	1.10	32.40	1,310.9	2.1	6.8	5.5	0.00	0.00	0.21
1,404.0	1.20	31.70	1,403.9	3.7	7.8	7.4	0.11	0.11	-0.75
1,498.0	1.30	23.20	1,497.9	5.5	8.7	9.4	0.22	0.11	-9.04
1,591.0	1.30	22.80	1,590.9	7.5	9.6	11.5	0.01	0.00	-0.43
1,685.0	1.40	20.40	1,684.8	9.5	10.4	13.7	0.12	0.11	-2.55
1,778.0	1.70	18.20	1,777.8	11.9	11.2	16.1	0.33	0.32	-2.37
1,871.0	1.70	18.80	1,870.8	14.5	12.1	18.8	0.02	0.00	0.65

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Site:	Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B2MD Fed Com #2H	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)
1,965.0	2.00	12.80	1,964.7	17.4	12.9	21.7	0.38	0.32	-6.38
2,058.0	0.70	13.20	2,057.7	19.6	13.4	23.7	1.40	-1.40	0.43
2,152.0	0.20	240.00	2,151.7	20.1	13.4	24.1	0.90	-0.53	-141.70
2,245.0	0.30	224.10	2,244.7	19.8	13.1	23.7	0.13	0.11	-17.10
2,338.0	0.00	146.00	2,337.7	19.6	12.9	23.5	0.32	-0.32	0.00
2,431.0	0.30	51.50	2,430.7	19.8	13.1	23.7	0.32	0.32	0.00
2,525.0	0.50	64.10	2,524.7	20.1	13.6	24.3	0.23	0.21	13.40
2,618.0	0.50	60.60	2,617.7	20.5	14.4	25.0	0.03	0.00	-3.76
2,712.0	0.60	73.00	2,711.7	20.8	15.2	25.7	0.16	0.11	13.19
2,805.0	1.10	127.60	2,804.7	20.4	16.4	26.1	0.96	0.54	58.71
2,898.0	1.40	134.10	2,897.6	19.1	17.9	25.8	0.36	0.32	6.99
2,991.0	1.60	133.00	2,990.6	17.4	19.7	25.4	0.22	0.22	-1.18
3,085.0	2.20	123.80	3,084.6	15.5	22.1	25.1	0.71	0.64	-9.79
3,178.0	1.70	104.60	3,177.5	14.2	24.9	25.6	0.88	-0.54	-20.65
3,272.0	1.60	90.00	3,271.5	13.8	27.6	26.7	0.46	-0.11	-15.53
3,365.0	2.30	139.90	3,364.4	12.4	30.1	26.9	1.90	0.75	53.66
3,459.0	3.10	153.50	3,458.3	8.7	32.4	25.1	1.08	0.85	14.47
3,552.0	2.40	146.10	3,551.2	4.8	34.6	23.1	0.84	-0.75	-7.96
3,646.0	2.20	131.10	3,645.1	2.0	37.1	22.1	0.67	-0.21	-15.96
3,739.0	2.70	130.40	3,738.0	-0.6	40.1	21.6	0.54	0.54	-0.75
3,833.0	2.50	102.40	3,832.0	-2.5	43.8	22.1	1.35	-0.21	-29.79
3,926.0	1.40	113.80	3,924.9	-3.4	46.8	23.0	1.25	-1.18	12.26
4,019.0	0.60	158.90	4,017.9	-4.3	48.0	22.9	1.15	-0.86	48.49
4,113.0	0.70	140.20	4,111.9	-5.2	48.6	22.4	0.25	0.11	-19.89
4,206.0	1.20	108.40	4,204.9	-5.9	49.9	22.5	0.76	0.54	-34.19
4,300.0	2.40	102.30	4,298.8	-6.7	52.7	23.5	1.29	1.28	-6.49
4,393.0	3.20	113.70	4,391.7	-8.1	57.0	24.6	1.04	0.86	12.26
4,486.0	4.80	140.70	4,484.5	-12.2	61.9	23.9	2.61	1.72	29.03
4,580.0	5.90	167.00	4,578.1	-19.9	65.4	19.4	2.83	1.17	27.98
4,673.0	6.60	190.10	4,670.5	-29.8	65.6	11.2	2.79	0.75	24.84
4,767.0	5.70	219.70	4,764.0	-38.8	61.6	1.6	3.46	-0.96	31.49
4,860.0	6.30	243.60	4,856.5	-44.6	54.1	-7.4	2.74	0.65	25.70
4,964.0	7.30	250.10	4,959.8	-49.4	42.8	-17.6	1.21	0.96	6.25
5,044.0	7.60	251.10	5,039.1	-52.8	33.0	-25.9	0.41	0.38	1.25
5,138.0	5.90	255.60	5,132.5	-56.0	22.4	-34.4	1.89	-1.81	4.79
5,231.0	5.80	252.80	5,225.0	-58.6	13.3	-41.6	0.33	-0.11	-3.01
5,325.0	6.40	253.70	5,318.5	-61.5	3.8	-49.2	0.65	0.64	0.96
5,418.0	6.20	247.50	5,410.9	-64.9	-5.9	-57.4	0.76	-0.22	-6.67
5,511.0	5.10	249.40	5,503.4	-68.2	-14.4	-64.9	1.20	-1.18	2.04
5,605.0	4.60	251.60	5,597.1	-70.9	-21.8	-71.2	0.57	-0.53	2.34
5,698.0	4.70	257.50	5,689.8	-72.9	-29.1	-76.9	0.53	0.11	6.34
5,791.0	4.60	256.40	5,782.5	-74.6	-36.5	-82.3	0.14	-0.11	-1.18

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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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
5,886.0	5.10	255.80	5,877.2	-76.5	-44.2	-88.2	0.53	0.53	-0.63
5,980.0	5.10	252.90	5,970.8	-78.8	-52.3	-94.6	0.27	0.00	-3.09
6,073.0	5.40	255.30	6,063.4	-81.1	-60.5	-101.0	0.40	0.32	2.58
6,166.0	5.80	255.40	6,155.9	-83.4	-69.3	-107.8	0.43	0.43	0.11
6,260.0	5.90	255.00	6,249.5	-85.9	-78.5	-114.9	0.11	0.11	-0.43
6,353.0	6.30	256.00	6,341.9	-88.3	-88.1	-122.2	0.45	0.43	1.08
6,447.0	6.30	255.60	6,435.4	-90.9	-98.1	-129.9	0.05	0.00	-0.43
6,540.0	6.40	255.30	6,527.8	-93.4	-108.0	-137.5	0.11	0.11	-0.32
6,634.0	6.10	252.30	6,621.2	-96.3	-117.9	-145.3	0.47	-0.32	-3.19
6,727.0	6.10	250.70	6,713.7	-99.4	-127.2	-153.1	0.18	0.00	-1.72
6,820.0	4.40	254.10	6,806.3	-102.0	-135.3	-159.7	1.86	-1.83	3.66
6,914.0	3.90	259.40	6,900.1	-103.6	-141.9	-164.7	0.67	-0.53	5.64
7,007.0	5.40	255.20	6,992.8	-105.3	-149.3	-170.1	1.65	1.61	-4.52
7,100.0	6.00	252.20	7,085.3	-107.9	-158.1	-177.2	0.72	0.65	-3.23
7,193.0	6.10	249.60	7,177.8	-111.1	-167.4	-184.9	0.31	0.11	-2.80
7,287.0	6.20	248.20	7,271.2	-114.7	-176.8	-193.1	0.19	0.11	-1.49
7,380.0	5.80	243.80	7,363.7	-118.7	-185.7	-201.3	0.66	-0.43	-4.73
7,473.0	6.00	242.30	7,456.2	-123.0	-194.2	-209.6	0.27	0.22	-1.61
7,566.0	5.30	243.60	7,548.8	-127.2	-202.3	-217.6	0.77	-0.75	1.40
7,659.0	5.20	240.20	7,641.4	-131.2	-209.9	-225.1	0.35	-0.11	-3.66
7,752.0	4.80	242.30	7,734.0	-135.1	-217.0	-232.2	0.47	-0.43	2.26
7,844.0	3.80	249.70	7,825.8	-137.9	-223.2	-238.1	1.24	-1.09	8.04
7,937.0	3.40	251.30	7,918.6	-139.9	-228.7	-242.7	0.44	-0.43	1.72
8,031.0	3.40	254.50	8,012.4	-141.5	-234.0	-247.0	0.20	0.00	3.40
8,124.0	3.70	258.30	8,105.3	-142.9	-239.6	-251.2	0.41	0.32	4.09
8,218.0	4.30	261.00	8,199.0	-144.0	-246.1	-255.8	0.67	0.64	2.87
8,311.0	4.80	259.60	8,291.7	-145.3	-253.4	-260.8	0.55	0.54	-1.51
8,404.0	6.10	255.10	8,384.3	-147.3	-262.0	-267.2	1.47	1.40	-4.84
8,497.0	5.70	255.30	8,476.8	-149.7	-271.2	-274.3	0.43	-0.43	0.22
8,590.0	4.70	258.10	8,569.4	-151.7	-279.4	-280.5	1.11	-1.08	3.01
8,683.0	4.70	261.00	8,662.1	-153.0	-286.9	-285.7	0.26	0.00	3.12
8,776.0	5.90	255.00	8,754.7	-154.9	-295.3	-291.9	1.42	1.29	-6.45
8,870.0	4.70	254.70	8,848.3	-157.1	-303.7	-298.4	1.28	-1.28	-0.32
8,963.0	4.90	239.80	8,941.0	-160.2	-310.8	-304.8	1.35	0.22	-16.02
9,056.0	4.80	253.60	9,033.7	-163.2	-317.9	-311.4	1.26	-0.11	14.84
9,149.0	5.90	254.50	9,126.3	-165.6	-326.3	-317.9	1.19	1.18	0.97
9,243.0	7.90	257.30	9,219.6	-168.3	-337.2	-326.2	2.16	2.13	2.98
9,336.0	8.70	259.10	9,311.6	-171.1	-350.4	-335.7	0.90	0.86	1.94
9,429.0	6.20	266.80	9,403.8	-172.7	-362.3	-343.7	2.89	-2.69	8.28
9,522.0	5.00	245.80	9,496.4	-174.6	-371.0	-350.1	2.53	-1.29	-22.58
9,616.0	3.60	247.20	9,590.1	-177.4	-377.5	-356.0	1.49	-1.49	1.49
9,709.0	2.20	262.20	9,683.0	-178.8	-381.9	-359.6	1.70	-1.51	16.13
9,803.0	1.80	265.10	9,776.9	-179.2	-385.2	-361.7	0.44	-0.43	3.09

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Well:	Gazelle 22 B2MD Fed Com #2H	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)
9,833.7	1.69	260.57	9,807.6	-179.3	-386.1	-362.3	0.58	-0.36	-14.74
New B.B. Gazelle 22 B2MD Fed Com #2H									
9,836.2	1.68	260.18	9,810.1	-179.3	-386.2	-362.4	0.58	-0.34	-15.78
B.B. Gazelle 22 B2MD Fed Com #2H									
9,846.7	1.64	258.48	9,820.6	-179.4	-386.5	-362.6	0.58	-0.34	-16.21
New 2 B.B. Gazelle 22 B2MD Fed Com #2H									
9,896.0	1.50	249.50	9,869.9	-179.7	-387.8	-363.6	0.58	-0.29	-18.21
9,934.0	1.10	249.50	9,907.9	-180.0	-388.6	-364.3	1.05	-1.05	0.00
9,974.0	1.10	255.20	9,947.9	-180.3	-389.3	-364.9	0.27	0.00	14.25
10,005.0	3.90	330.50	9,978.8	-179.4	-390.1	-364.6	12.17	9.03	242.90
10,036.0	8.80	341.60	10,009.6	-176.3	-391.4	-362.7	16.22	15.81	35.81
10,067.0	13.50	346.00	10,040.1	-170.5	-393.0	-358.8	15.40	15.16	14.19
10,098.0	17.70	349.70	10,069.9	-162.3	-394.7	-352.9	13.92	13.55	11.94
10,129.0	20.90	356.80	10,099.2	-152.2	-395.9	-345.1	12.78	10.32	22.90
10,160.0	23.80	358.70	10,127.8	-140.4	-396.3	-335.5	9.64	9.35	6.13
10,191.0	28.00	359.70	10,155.7	-126.9	-396.5	-324.3	13.62	13.55	3.23
10,222.0	30.10	3.10	10,182.8	-111.8	-396.1	-311.5	8.61	6.77	10.97
10,253.0	31.30	1.90	10,209.5	-96.0	-395.5	-297.9	4.35	3.87	-3.87
10,285.0	34.30	5.20	10,236.4	-78.7	-394.4	-282.9	10.91	9.38	10.31
10,316.0	37.90	5.90	10,261.4	-60.6	-392.6	-266.8	11.69	11.61	2.26
10,347.0	42.20	2.80	10,285.1	-40.7	-391.1	-249.3	15.29	13.87	-10.00
10,378.0	46.90	357.90	10,307.2	-18.9	-391.0	-231.1	18.78	15.16	-15.81
10,409.0	52.10	354.20	10,327.4	4.6	-392.7	-212.4	19.07	16.77	-11.94
10,440.0	57.30	353.20	10,345.3	29.7	-395.4	-193.0	16.98	16.77	-3.23
10,471.0	62.00	354.40	10,360.9	56.3	-398.3	-172.4	15.52	15.16	3.87
10,482.0	62.90	354.90	10,366.0	66.0	-399.2	-164.8	9.12	8.18	4.55
10,537.0	67.20	355.90	10,389.2	115.7	-403.2	-125.5	7.99	7.82	1.82
10,539.2	67.43	355.89	10,390.1	117.7	-403.4	-123.9	10.65	10.65	-0.33
LP Gazelle 22 B2MD Fed Com #2H									
10,568.0	70.50	355.80	10,400.4	144.5	-405.3	-102.6	10.65	10.65	-0.32
10,599.0	72.80	355.60	10,410.2	173.9	-407.5	-79.3	7.44	7.42	-0.65
10,630.0	74.50	355.50	10,418.9	203.5	-409.8	-55.8	5.49	5.48	-0.32
10,661.0	78.50	355.40	10,426.1	233.6	-412.2	-32.1	12.91	12.90	-0.32
10,692.0	82.30	354.90	10,431.3	264.0	-414.8	-8.1	12.36	12.26	-1.61
10,723.0	85.80	355.00	10,434.5	294.7	-417.5	16.1	11.29	11.29	0.32
10,754.0	87.20	354.90	10,436.4	325.5	-420.2	40.3	4.53	4.52	-0.32
10,786.0	88.70	354.70	10,437.5	357.4	-423.1	65.3	4.73	4.69	-0.63
10,817.0	91.30	354.60	10,437.5	388.2	-426.0	89.4	8.39	8.39	-0.32
10,910.0	90.90	356.30	10,435.7	480.9	-433.4	162.7	1.88	-0.43	1.83
11,004.0	90.30	358.90	10,434.8	574.8	-437.3	239.0	2.84	-0.64	2.77
11,097.0	88.50	0.30	10,435.7	667.8	-438.0	316.2	2.45	-1.94	1.51
11,190.0	88.70	1.00	10,438.0	760.8	-436.9	394.4	0.78	0.22	0.75
11,284.0	88.40	0.50	10,440.4	854.7	-435.7	473.5	0.62	-0.32	-0.53

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gazelle 22 B2MD Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Site:	Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B2MD Fed Com #2H	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)
11,377.0	89.40	0.80	10,442.2	947.7	-434.6	551.7	1.12	1.08	0.32
11,471.0	89.00	359.70	10,443.5	1,041.7	-434.2	630.4	1.25	-0.43	-1.17
11,564.0	90.90	1.10	10,443.6	1,134.7	-433.6	708.3	2.54	2.04	1.51
11,658.0	91.00	0.70	10,442.0	1,228.7	-432.1	787.6	0.44	0.11	-0.43
11,751.0	90.40	0.50	10,440.9	1,321.7	-431.1	865.7	0.68	-0.65	-0.22
11,845.0	89.70	0.30	10,440.8	1,415.7	-430.5	944.6	0.77	-0.74	-0.21
11,938.0	89.90	0.90	10,441.1	1,508.7	-429.5	1,022.7	0.68	0.22	0.65
12,032.0	89.30	0.20	10,441.8	1,602.6	-428.6	1,101.7	0.98	-0.64	-0.74
12,125.0	89.00	359.50	10,443.2	1,695.6	-428.9	1,179.1	0.82	-0.32	-0.75
12,218.0	89.80	2.00	10,444.1	1,788.6	-427.6	1,257.4	2.82	0.86	2.69
12,312.0	89.70	2.70	10,444.5	1,882.5	-423.8	1,337.9	0.75	-0.11	0.74
12,406.0	89.50	2.90	10,445.2	1,976.4	-419.2	1,418.8	0.30	-0.21	0.21
12,499.0	90.20	0.10	10,445.4	2,069.4	-416.8	1,497.8	3.10	0.75	-3.01
12,593.0	90.50	359.50	10,444.9	2,163.4	-417.1	1,576.0	0.71	0.32	-0.64
12,686.0	90.20	359.30	10,444.3	2,256.4	-418.1	1,653.1	0.39	-0.32	-0.22
12,779.0	89.50	359.00	10,444.5	2,349.4	-419.4	1,730.0	0.82	-0.75	-0.32
12,873.0	89.60	358.80	10,445.3	2,443.3	-421.2	1,807.4	0.24	0.11	-0.21
12,966.0	89.50	358.90	10,446.0	2,536.3	-423.1	1,884.0	0.15	-0.11	0.11
13,060.0	88.90	358.20	10,447.3	2,630.3	-425.5	1,961.1	0.98	-0.64	-0.74
13,153.0	88.80	357.50	10,449.2	2,723.2	-429.0	2,036.8	0.76	-0.11	-0.75
13,247.0	89.60	0.20	10,450.5	2,817.2	-430.9	2,114.2	3.00	0.85	2.87
13,340.0	89.10	359.60	10,451.6	2,910.1	-431.0	2,191.7	0.84	-0.54	-0.65
13,434.0	92.00	359.20	10,450.6	3,004.1	-432.0	2,269.6	3.11	3.09	-0.43
13,527.0	92.60	359.40	10,446.9	3,097.0	-433.1	2,346.5	0.68	0.65	0.22
13,620.0	90.10	1.10	10,444.7	3,190.0	-432.7	2,424.3	3.25	-2.69	1.83
13,714.0	90.50	1.60	10,444.2	3,284.0	-430.5	2,504.0	0.68	0.43	0.53
13,807.0	88.20	0.40	10,445.3	3,376.9	-428.9	2,582.5	2.79	-2.47	-1.29
13,900.0	89.10	0.60	10,447.5	3,469.9	-428.1	2,660.5	0.99	0.97	0.22
13,994.0	88.20	0.30	10,449.7	3,563.9	-427.3	2,739.4	1.01	-0.96	-0.32
14,088.0	89.50	358.40	10,451.6	3,657.9	-428.4	2,817.2	2.45	1.38	-2.02
14,182.0	88.70	357.60	10,453.1	3,751.8	-431.7	2,893.8	1.20	-0.85	-0.85
14,276.0	90.10	359.00	10,454.0	3,845.7	-434.5	2,970.7	2.11	1.49	1.49
14,369.0	89.00	358.70	10,454.8	3,938.7	-436.3	3,047.3	1.23	-1.18	-0.32
14,463.0	87.90	358.00	10,457.3	4,032.6	-439.1	3,124.2	1.39	-1.17	-0.74
14,557.0	88.20	359.50	10,460.5	4,126.6	-441.1	3,201.5	1.63	0.32	1.60
14,652.0	89.90	0.50	10,462.1	4,221.5	-441.1	3,280.7	2.08	1.79	1.05
14,746.0	91.60	1.30	10,460.9	4,315.5	-439.6	3,360.0	2.00	1.81	0.85
14,839.0	92.20	0.80	10,457.8	4,408.4	-437.9	3,438.5	0.84	0.65	-0.54
14,933.0	91.00	0.50	10,455.2	4,502.4	-436.9	3,517.5	1.32	-1.28	-0.32
15,026.0	92.50	0.50	10,452.3	4,595.4	-436.0	3,595.5	1.61	1.61	0.00
15,121.0	89.20	358.30	10,450.9	4,690.3	-437.0	3,674.3	4.17	-3.47	-2.32
15,180.2	89.33	358.24	10,451.7	4,748.5	-438.8	3,722.7	0.24	0.21	-0.11

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gazelle 22 B2MD Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Site:	Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H	MD Reference:	3491 + 27 @ 3518.0usft (Patterson 250)
Well:	Gazelle 22 B2MD Fed Com #2H	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)
PBHL Gazelle 22 B2MD Fed Com #2H									
15,215.0	89.40	358.20	10,452.0	4,784.3	-439.9	3,751.1	0.24	0.21	-0.11
15,309.0	89.50	358.00	10,453.0	4,878.2	-443.0	3,827.8	0.24	0.11	-0.21
15,347.0	89.10	358.00	10,453.4	4,916.2	-444.4	3,858.8	1.05	-1.05	0.00
15,404.1	89.10	358.00	10,454.3	4,973.2	-446.3	3,905.3	0.00	0.00	0.00
15405.0' Projected to Bit									
15,405.0	89.10	358.00	10,454.3	4,974.1	-446.4	3,906.0	0.00	0.00	0.00
New PBHL Gazelle 22 B2MD Fed Com #2H									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,404.1	10,454.3	4,973.2	-446.3	15405.0' Projected to Bit

GEODETTIC ZONE: New Mexico Eastern Zone
3491 + 27 @ 3518.0usft (Patterson 250)

GROUND ELEVATION: 3491.0

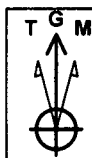
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	467921.70	810014.80	32° 17' 0.232 N	103° 27' 50.143 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSeet	Target
1	2991.0	1.60	133.00	2990.6	17.4	19.7	0.00	0.00	15.6	
2	4300.0	1.80	133.00	4299.1	-7.5	46.4	0.00	0.00	-11.7	
3	4460.0	0.00	0.00	4459.1	-9.0	48.0	1.00	180.00	-13.3	
4	4461.5	0.00	0.00	4460.6	-9.0	48.0	0.00	0.00	-13.3	
5	4834.7	5.60	248.27	4833.2	-15.8	31.1	1.50	248.27	-18.5	
6	9471.0	5.60	248.27	9447.4	-183.3	-389.1	0.00	0.00	-147.5	
7	9844.2	0.00	0.00	9820.0	-190.0	-406.0	1.50	180.00	-152.7	New 2 B.B. Gazelle 22 B2MD Fed Com #2H
8	9984.3	0.00	0.00	9960.1	-190.0	-406.0	0.00	0.00	-152.7	
9	10732.2	89.74	359.51	10437.6	285.3	-410.1	12.00	359.51	321.0	PBHL Gazelle 22 B2MD Fed Com #2H
10	15238.2	89.74	359.51	10458.0	4791.2	-448.6	0.00	0.00	4812.1	New PBHL Gazelle 22 B2MD Fed Com #2H
11	15426.3	89.74	359.51	10458.9	4978.2	-450.2	0.00	0.00	4999.5	

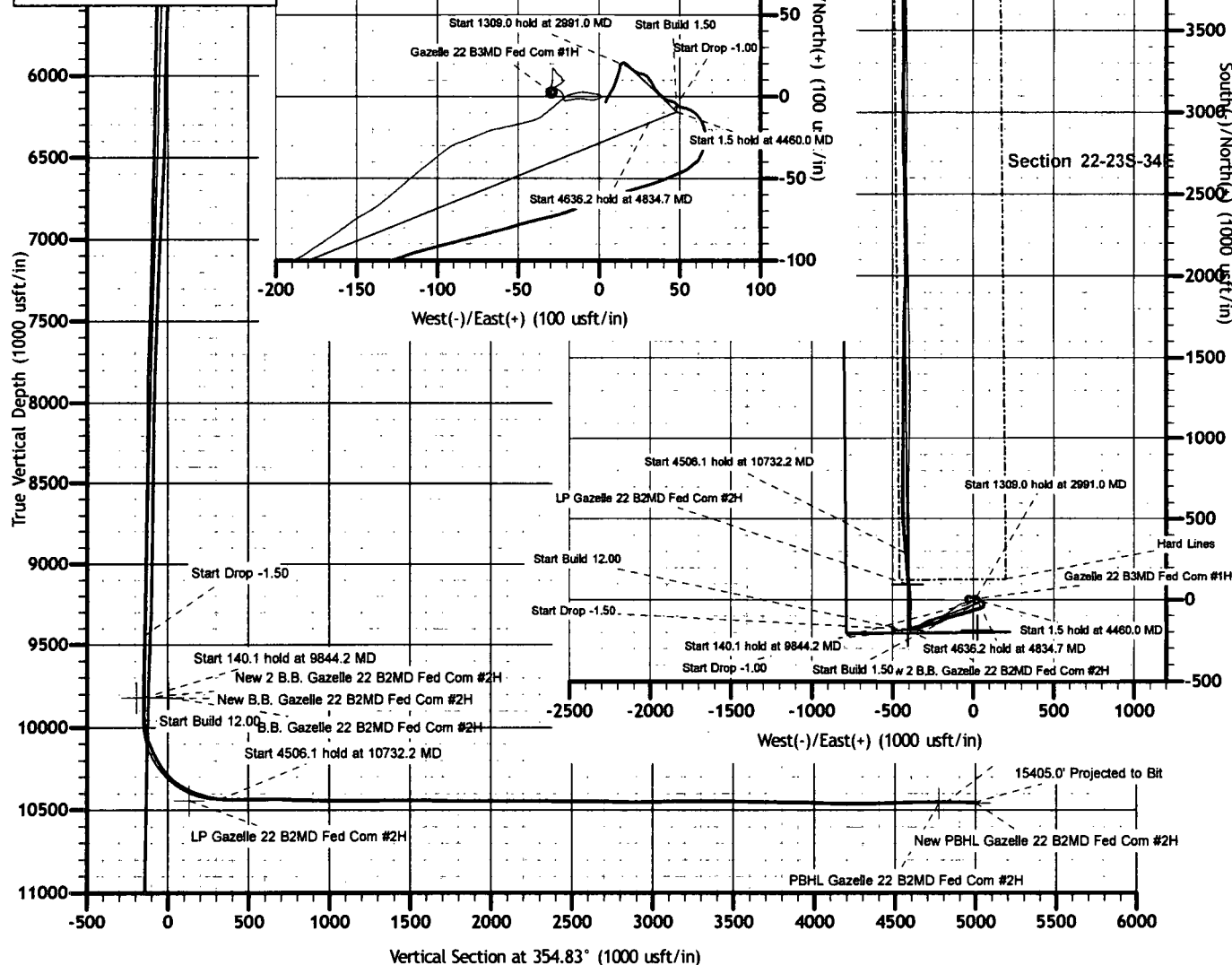
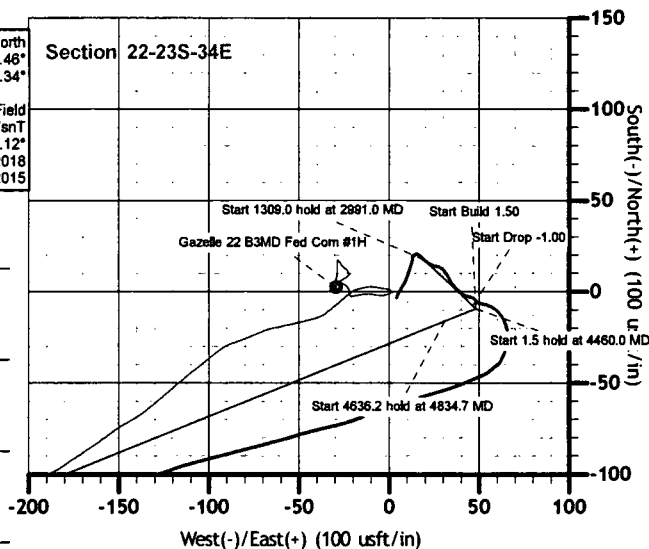
SHL: 200' FSL; 786' FWL
Section 22-23S-34E
PBHL: 330' FNL; 380' FWL
Section 22-23S-34E

New PBHL Gazelle 22 B2MD Fed Com #2H
15405.0' Projected to Bit
PBHL Gazelle 22 B2MD Fed Com #2H
Start 188.0 hold at 15238.2 MD
102.0' FNL; 385.0' FWL



Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.34°
Magnetic Field
Strength: 47887.7snT
Dip Angle: 60.12°
Date: 5/25/2018
Model: IGRF2015

Section 22-23S-34E



Vertical Section at 354.83° (1000 usft/in)



COMPANY: Mewbourne Oil Company
WELL: Gazelle 22 B2MD Fed Com #2H
COUNTY: Lea County N. M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 250



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.34°

GEODETIC ZONE: New Mexico Eastern Zone

3491 + 27 @ 3518.0usft (Patterson 250)

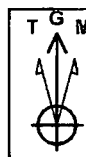
GROUND ELEVATION: 3491.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	467921.70	810014.80	32° 17' 0.232 N	103° 27' 50.143 W	

PLAN SECTIONS

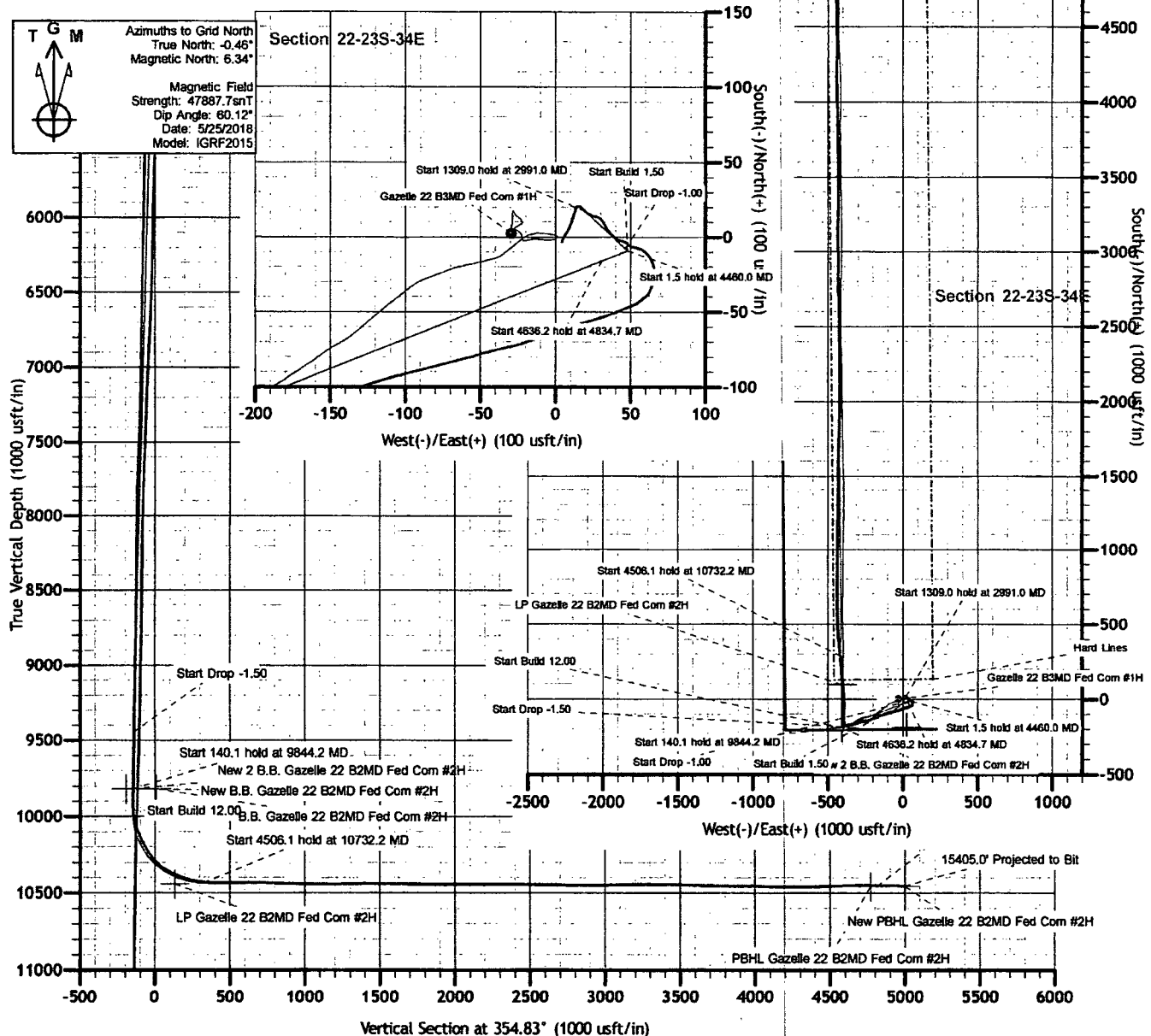
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	2991.0	1.80	133.00	2990.6	17.4	19.7	0.00	0.00	15.6	
2	4300.0	1.60	133.00	4299.1	-7.5	48.4	0.00	0.00	-11.7	
3	4460.0	0.00	0.00	4459.1	-9.0	48.0	1.00	180.00	-13.3	
4	4461.5	0.00	0.00	4460.6	-9.0	48.0	0.00	0.00	-13.3	
5	4834.7	5.60	248.27	4833.2	-15.8	31.1	1.50	248.27	-18.5	
6	9471.0	5.60	248.27	9447.4	-183.3	-389.1	0.00	0.00	-147.5	
7	9844.2	0.00	0.00	9820.0	-190.0	-408.0	1.50	180.00	-152.7	New 2 B.B. Gazelle 22 B2MD Fed Com #2H
8	9844.3	0.00	0.00	9860.1	-190.0	-406.0	0.00	0.00	-152.7	
9	10732.2	89.74	359.51	10437.6	285.3	-410.1	12.00	359.51	321.0	
10	15238.2	89.74	359.51	10458.0	4791.2	-448.6	0.00	0.00	4812.1	PBHL Gazelle 22 B2MD Fed Com #2H
11	15426.3	89.74	359.51	10458.9	4979.2	-450.2	0.00	0.00	4999.5	New PBHL Gazelle 22 B2MD Fed Com #2H

SHL: 200' FSL; 786' FWL
Section 22-23S-34E
PBHL: 330' FNL; 380' FWL
Section 22-23S-34E



Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.34°
Magnetic Field
Strength: 47897.7nT
Dip Angle: 80.12°
Date: 5/25/2018
Model: IGRF2015

Section 22-23S-34E





September 11, 2018

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

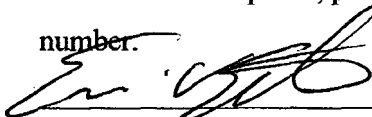
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Gazelle 22 B2MD Federal Com #002H
Antelope Ridge; Bone Spring, West
Lea County, New Mexico
API# 30-025-44941

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>
David Calabrese	Original Hole	1,124ft. to 15,347ft.	07-08-18 to 07-22-18	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\Gazelle 22 B2MD Fed Com #2H\M181083

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



Microsoft MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 22-23S-34E Gazelle 22 B2MD Fed Com:
Well: Gazelle 22 B2MD Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B2MD Fed Com #2H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Lea 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 22-23S-34E Gazelle 22 B2MD Fed Com #2H		
Site Position:		Northing:	467,921.70 usft
From:	Map	Easting:	810,014.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 0.232 N
		Longitude:	103° 27' 50.143 W
		Grid Convergence:	0.46 °

Well	Gazelle 22 B2MD Fed Com #2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 17' 0.232 N
		Longitude:	103° 27' 50.143 W
		Ground Level:	3,491.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	5/25/2018	(°)
			6.81
			Dip Angle
			(°)
			60.12
			Field Strength
			(nT)
			47,887.72336473

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			33.42

Survey Program	Date 7/23/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1,124.0	15,405.0	Survey #1 (Original Hole)	MWD
			Description
			MWD v3:standard declination

Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 22-23S-34E Gazelle 22 B2MD Fed Com
Well: Gazelle 22 B2MD Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B2MD Fed Com #2H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
925.0	0.37	2.79	925.0	2,593.0	-3.3	4.0	5.2	129.13	Tie-In
1,124.0	1.10	28.10	1,124.0	2,394.0	-0.9	5.0	5.0	100.79	
1,217.0	1.10	32.20	1,216.9	2,301.1	0.6	5.8	5.9	84.14	
1,311.0	1.10	32.40	1,310.9	2,207.1	2.1	6.8	7.1	72.67	
1,404.0	1.20	31.70	1,403.9	2,114.1	3.7	7.8	8.6	64.58	
1,498.0	1.30	23.20	1,497.9	2,020.1	5.5	8.7	10.3	57.70	
1,591.0	1.30	22.80	1,590.9	1,927.1	7.5	9.6	12.1	52.02	
1,685.0	1.40	20.40	1,684.8	1,833.2	9.5	10.4	14.1	47.45	
1,778.0	1.70	18.20	1,777.8	1,740.2	11.9	11.2	16.3	43.27	
1,871.0	1.70	18.80	1,870.8	1,647.2	14.5	12.1	18.9	39.76	
1,965.0	2.00	12.80	1,964.7	1,553.3	17.4	12.9	21.7	36.48	
2,058.0	0.70	13.20	2,057.7	1,460.3	19.6	13.4	23.7	34.36	
2,152.0	0.20	240.00	2,151.7	1,366.3	20.1	13.4	24.1	33.70	
2,245.0	0.30	224.10	2,244.7	1,273.3	19.8	13.1	23.7	33.42	
2,338.0	0.00	146.00	2,337.7	1,180.3	19.6	12.9	23.5	33.31	
2,431.0	0.30	51.50	2,430.7	1,087.3	19.8	13.1	23.7	33.49	
2,525.0	0.50	64.10	2,524.7	993.3	20.1	13.6	24.3	34.16	
2,618.0	0.50	60.60	2,617.7	900.3	20.5	14.4	25.0	35.04	
2,712.0	0.60	73.00	2,711.7	806.3	20.8	15.2	25.8	36.11	
2,805.0	1.10	127.60	2,804.7	713.3	20.4	16.4	26.2	38.70	
2,898.0	1.40	134.10	2,897.6	620.4	19.1	17.9	26.2	43.14	
2,991.0	1.60	133.00	2,990.6	527.4	17.4	19.7	26.3	48.46	
3,085.0	2.20	123.80	3,084.6	433.4	15.5	22.1	27.0	54.95	
3,178.0	1.70	104.60	3,177.5	340.5	14.2	24.9	28.7	60.38	
3,272.0	1.60	90.00	3,271.5	246.5	13.8	27.6	30.9	63.39	
3,365.0	2.30	139.90	3,364.4	153.6	12.4	30.1	32.5	67.62	
3,459.0	3.10	153.50	3,458.3	59.7	8.7	32.4	33.6	75.03	



Microsoft MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 22-23S-34E Gazelle 22 B2MD Fed Com
Well: Gazelle 22 B2MD Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B2MD Fed Com #2H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
3,552.0	2.40	146.10	3,551.2	-33.2	4.8	34.6	35.0	82.10
3,646.0	2.20	131.10	3,645.1	-127.1	-2.0	37.1	37.2	86.93
3,739.0	2.70	130.40	3,738.0	-220.0	-0.6	40.1	40.1	90.86
3,833.0	2.50	102.40	3,832.0	-314.0	-2.5	43.8	43.9	93.24
3,926.0	1.40	113.80	3,924.9	-408.9	-3.4	46.8	46.9	94.12
4,019.0	0.60	158.90	4,017.9	-499.9	-4.3	48.0	48.2	95.10
4,113.0	0.70	140.20	4,111.9	-593.9	-5.2	48.6	48.9	96.09
4,206.0	1.20	108.40	4,204.9	-686.9	-5.9	49.9	50.2	96.78
4,300.0	2.40	102.30	4,298.8	-780.8	-6.7	52.7	53.2	97.20
4,393.0	3.20	113.70	4,391.7	-873.7	-8.1	57.0	57.6	98.11
4,486.0	4.80	140.70	4,484.5	-966.5	-12.2	61.9	63.0	101.13
4,580.0	5.90	167.00	4,578.1	-1,060.1	-19.9	65.4	68.4	106.94
4,673.0	6.60	190.10	4,670.5	-1,152.5	-29.8	65.6	72.0	114.47
4,767.0	5.70	219.70	4,764.0	-1,246.0	-38.8	61.6	72.8	122.16
4,860.0	6.30	243.60	4,856.5	-1,338.5	-44.6	54.1	70.1	129.48
4,964.0	7.30	250.10	4,959.8	-1,441.8	-49.4	42.8	65.3	139.08
5,044.0	7.60	251.10	5,039.1	-1,521.1	-52.8	33.0	62.3	147.99
5,138.0	5.90	255.60	5,132.5	-1,614.5	-56.0	22.4	60.4	158.17
5,231.0	5.80	252.80	5,225.0	-1,707.0	-58.6	13.3	60.1	167.19
5,325.0	6.40	253.70	5,318.5	-1,800.5	-61.5	3.8	61.6	176.50
5,418.0	6.20	247.50	5,410.9	-1,892.9	-64.9	-5.9	65.1	185.16
5,511.0	5.10	249.40	5,503.4	-1,985.4	-68.2	-14.4	69.7	191.89
5,605.0	4.60	251.60	5,597.1	-2,079.1	-70.9	-21.8	74.2	197.13
5,698.0	4.70	257.50	5,689.8	-2,171.8	-72.9	-29.1	78.5	201.77
5,791.0	4.60	256.40	5,782.5	-2,264.5	-74.8	-36.5	83.0	206.04
5,886.0	5.10	255.80	5,877.2	-2,359.2	-76.5	-44.2	88.4	210.04
5,980.0	5.10	252.90	5,970.8	-2,452.8	-78.8	-52.3	94.6	213.57



Microsoft MWD Surveys



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Wellbore: Original Hole
Design: Original Hole

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TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
6,073.0	5.40	255.30	6,063.4	-2,545.4	-81.1	-60.5	101.2	216.71
6,166.0	5.80	255.40	6,155.9	-2,637.9	-83.4	-69.3	108.4	219.71
6,260.0	5.90	255.00	6,249.5	-2,731.5	-85.9	-78.5	116.3	222.45
6,353.0	6.30	256.00	6,341.9	-2,823.9	-88.3	-88.1	124.7	224.92
6,447.0	6.30	255.60	6,435.4	-2,917.4	-90.9	-98.1	133.7	227.19
6,540.0	6.40	255.30	6,527.8	-3,009.8	-93.4	-108.0	142.8	229.15
6,634.0	6.10	252.30	6,621.2	-3,103.2	-96.3	-117.9	152.2	230.76
6,727.0	6.10	250.70	6,713.7	-3,195.7	-99.4	-127.2	161.5	232.00
6,820.0	4.40	254.10	6,806.3	-3,288.3	-102.0	-135.3	169.5	232.99
6,914.0	3.90	259.40	6,900.1	-3,382.1	-103.6	-141.9	175.7	233.87
7,007.0	5.40	255.20	6,992.8	-3,474.8	-105.3	-149.3	182.7	234.80
7,100.0	6.00	252.20	7,085.3	-3,567.3	-107.9	-158.1	191.5	235.69
7,193.0	6.10	249.60	7,177.8	-3,659.8	-111.1	-167.4	200.9	236.42
7,287.0	6.20	248.20	7,271.2	-3,753.2	-114.7	-176.8	210.8	237.02
7,380.0	5.80	243.80	7,363.7	-3,845.7	-118.7	-185.7	220.4	237.41
7,473.0	6.00	242.30	7,456.2	-3,938.2	-123.0	-194.2	229.9	237.65
7,566.0	5.30	243.60	7,548.8	-4,030.8	-127.2	-202.3	239.0	237.85
7,659.0	5.20	240.20	7,641.4	-4,123.4	-131.2	-209.9	247.5	237.99
7,752.0	4.80	242.30	7,734.0	-4,216.0	-135.1	-217.0	255.6	238.09
7,844.0	3.80	249.70	7,825.8	-4,307.8	-137.9	-223.2	262.4	238.29
7,937.0	3.40	251.30	7,918.6	-4,400.6	-139.9	-228.7	268.1	238.55
8,031.0	3.40	254.50	8,012.4	-4,494.4	-141.5	-234.0	273.5	238.84
8,124.0	3.70	258.30	8,105.3	-4,587.3	-142.9	-239.6	279.0	239.20
8,218.0	4.30	261.00	8,199.0	-4,681.0	-144.0	-246.1	285.2	239.66
8,311.0	4.80	259.60	8,291.7	-4,773.7	-145.3	-253.4	292.1	240.17
8,404.0	6.10	255.10	8,384.3	-4,866.3	-147.3	-262.0	300.5	240.66
8,497.0	5.70	255.30	8,476.8	-4,958.8	-149.7	-271.2	309.8	241.10

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Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
8,590.0	4.70	258.10	8,569.4	-5,051.4	-151.7	-279.4	317.9	241.51
8,683.0	4.70	261.00	8,662.1	-5,144.1	-153.0	-286.9	325.2	241.92
8,776.0	5.90	255.00	8,754.7	-5,236.7	-154.9	-295.3	333.4	242.32
8,870.0	4.70	254.70	8,848.3	-5,330.3	-157.1	-303.7	341.9	242.64
8,963.0	4.90	239.80	8,941.0	-5,423.0	-160.2	-310.8	349.6	242.74
9,056.0	4.80	253.60	9,033.7	-5,515.7	-163.2	-317.9	357.4	242.82
9,149.0	5.90	254.50	9,126.3	-5,608.3	-165.6	-326.3	365.9	243.09
9,243.0	7.90	257.30	9,219.6	-5,701.6	-168.3	-337.2	376.9	243.47
9,336.0	8.70	259.10	9,311.6	-5,793.6	-171.1	-350.4	389.9	243.98
9,429.0	6.20	266.80	9,403.8	-5,885.8	-172.7	-362.3	401.3	244.52
9,522.0	5.00	245.80	9,496.4	-5,978.4	-174.6	-371.0	410.1	244.79
9,616.0	3.60	247.20	9,590.1	-6,072.1	-177.4	-377.5	417.1	244.82
9,709.0	2.20	262.20	9,683.0	-6,165.0	-178.8	-381.9	421.7	244.91
9,803.0	1.80	265.10	9,776.9	-6,258.9	-179.2	-385.2	424.8	245.05
9,833.7	1.69	260.57	9,807.6	-6,289.6	-179.3	-386.1	425.7	245.09
New B.B. Gazelle 22 B2MD Fed Com #2H								
9,836.2	1.68	260.18	9,810.1	-6,292.1	-179.3	-386.2	425.8	245.09
B.B. Gazelle 22 B2MD Fed Com #2H								
9,846.7	1.64	258.48	9,820.6	-6,302.6	-179.4	-386.5	426.1	245.10
New 2 B.B. Gazelle 22 B2MD Fed Com #2H								
9,896.0	1.50	249.50	9,869.9	-6,351.9	-179.7	-387.8	427.4	245.13
9,934.0	1.10	249.50	9,907.9	-6,389.9	-180.0	-388.6	428.3	245.14
9,974.0	1.10	255.20	9,947.9	-6,429.9	-180.3	-389.3	429.0	245.15
10,005.0	3.90	330.50	9,978.8	-6,460.8	-179.4	-390.1	429.4	245.30
10,036.0	8.80	341.60	10,009.6	-6,491.6	-176.3	-391.4	429.3	245.76
10,067.0	13.50	346.00	10,040.1	-6,522.1	-170.5	-393.0	428.4	246.55
10,098.0	17.70	349.70	10,069.9	-6,551.9	-162.3	-394.7	426.8	247.64



Microsoft
MWD Surveys



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Wellbore: Original Hole
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Local Co-ordinate Reference: Well Gazelle 22 B2MD Fed Com #2H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,129.0	20.90	356.80	10,099.2	-6,581.2	-152.2	-395.9	424.1	248.97
10,160.0	23.80	358.70	10,127.8	-6,609.8	-140.4	-396.3	420.5	250.49
10,191.0	28.00	359.70	10,155.7	-6,637.7	-126.9	-396.5	416.3	252.26
10,222.0	30.10	3.10	10,182.8	-6,664.8	-111.8	-396.1	411.6	254.24
10,253.0	31.30	1.90	10,209.5	-6,691.5	-96.0	-395.5	406.9	256.35
10,285.0	34.30	5.20	10,236.4	-6,718.4	-78.7	-394.4	402.1	258.71
10,316.0	37.90	5.90	10,261.4	-6,743.4	-60.6	-392.6	397.2	261.23
10,347.0	42.20	2.80	10,285.1	-6,767.1	-40.7	-391.1	393.2	264.06
10,378.0	46.90	357.90	10,307.2	-6,789.2	-18.9	-391.0	391.5	267.23
10,409.0	52.10	354.20	10,327.4	-6,809.4	4.6	-392.7	392.7	270.66
10,440.0	57.30	353.20	10,345.3	-6,827.3	29.7	-395.4	396.6	274.29
10,471.0	62.00	354.40	10,360.9	-6,842.9	56.3	-398.3	402.3	278.04
10,482.0	62.90	354.90	10,366.0	-6,848.0	66.0	-399.2	404.6	279.39
10,537.0	67.20	355.90	10,389.2	-6,871.2	115.7	-403.2	419.5	286.01
10,539.2	67.43	355.89	10,390.1	-6,872.1	117.7	-403.4	420.2	286.27
LP Gazelle 22 B2MD Fed Com #2H								
10,568.0	70.50	355.80	10,400.4	-6,882.4	144.5	-405.3	430.3	289.62
10,599.0	72.80	355.60	10,410.2	-6,892.2	173.9	-407.5	443.1	293.10
10,630.0	74.50	355.50	10,418.9	-6,900.9	203.5	-409.8	457.6	296.41
10,661.0	78.50	355.40	10,426.1	-6,908.1	233.6	-412.2	473.8	299.53
10,692.0	82.30	354.90	10,431.3	-6,913.3	264.0	-414.8	491.7	302.47
10,723.0	85.80	355.00	10,434.5	-6,916.5	294.7	-417.5	511.1	305.22
10,754.0	87.20	354.90	10,436.4	-6,918.4	325.5	-420.2	531.6	307.76
10,786.0	88.70	354.70	10,437.5	-6,919.5	357.4	-423.1	553.9	310.18
10,817.0	91.30	354.60	10,437.5	-6,919.5	388.2	-426.0	576.4	312.34
10,910.0	90.90	356.30	10,435.7	-6,917.7	480.9	-433.4	647.4	317.98
11,004.0	90.30	358.90	10,434.8	-6,916.8	574.8	-437.3	722.3	322.74

Company: Mewbourne Oil Company
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TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
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Survey Calculation Method: Minimum Curvature
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,097.0	88.50	0.30	10,435.7	-6,917.7	667.8	-438.0	798.6	326.74
11,190.0	88.70	1.00	10,438.0	-6,920.0	760.8	-436.9	877.3	330.13
11,284.0	88.40	0.50	10,440.4	-6,922.4	854.7	-435.7	959.4	332.99
11,377.0	89.40	0.80	10,442.2	-6,924.2	947.7	-434.6	1,042.6	335.36
11,471.0	89.00	359.70	10,443.5	-6,925.5	1,041.7	-434.2	1,128.6	337.37
11,564.0	90.90	1.10	10,443.6	-6,925.6	1,134.7	-433.6	1,214.7	339.09
11,658.0	91.00	0.70	10,442.0	-6,924.0	1,228.7	-432.1	1,302.4	340.62
11,751.0	90.40	0.50	10,440.9	-6,922.9	1,321.7	-431.1	1,390.2	341.93
11,845.0	89.70	0.30	10,440.8	-6,922.8	1,415.7	-430.5	1,479.7	343.09
11,938.0	89.90	0.90	10,441.1	-6,923.1	1,508.7	-429.5	1,568.6	344.11
12,032.0	89.30	0.20	10,441.8	-6,923.8	1,602.6	-428.6	1,659.0	345.03
12,125.0	89.00	359.50	10,443.2	-6,925.2	1,695.6	-428.9	1,749.0	345.81
12,218.0	89.80	2.00	10,444.1	-6,926.1	1,788.6	-427.6	1,839.0	346.55
12,312.0	89.70	2.70	10,444.5	-6,926.5	1,882.5	-423.8	1,929.6	347.31
12,406.0	89.50	2.90	10,445.2	-6,927.2	1,976.4	-419.2	2,020.4	348.03
12,499.0	90.20	0.10	10,445.4	-6,927.4	2,069.4	-416.8	2,110.9	348.61
12,593.0	90.50	359.50	10,444.9	-6,926.9	2,163.4	-417.1	2,203.2	349.09
12,686.0	90.20	359.30	10,444.3	-6,926.3	2,256.4	-418.1	2,294.8	349.50
12,779.0	89.50	359.00	10,444.5	-6,926.5	2,349.4	-419.4	2,386.5	349.88
12,873.0	89.60	358.80	10,445.3	-6,927.3	2,443.3	-421.2	2,479.4	350.22
12,966.0	89.50	358.90	10,446.0	-6,928.0	2,536.3	-423.1	2,571.4	350.53
13,060.0	88.90	358.20	10,447.3	-6,929.3	2,630.3	-425.5	2,664.5	350.81
13,153.0	88.80	357.50	10,449.2	-6,931.2	2,723.2	-429.0	2,756.8	351.05
13,247.0	89.60	0.20	10,450.5	-6,932.5	2,817.2	-430.9	2,849.9	351.30
13,340.0	89.10	359.60	10,451.6	-6,933.6	2,910.1	-431.0	2,941.9	351.58
13,434.0	92.00	359.20	10,450.6	-6,932.6	3,004.1	-432.0	3,035.0	351.82
13,527.0	92.60	359.40	10,446.9	-6,928.9	3,097.0	-433.1	3,127.2	352.04



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,620.0	90.10	1.10	10,444.7	-6,926.7	3,190.0	-432.7	3,219.2	352.27
13,714.0	90.50	1.60	10,444.2	-6,926.2	3,284.0	-430.5	3,312.1	352.53
13,807.0	88.20	0.40	10,445.3	-6,927.3	3,376.9	-428.9	3,404.1	352.76
13,900.0	89.10	0.60	10,447.5	-6,929.5	3,469.9	-428.1	3,496.2	352.97
13,994.0	88.20	0.30	10,449.7	-6,931.7	3,563.9	-427.3	3,589.4	353.16
14,088.0	89.50	358.40	10,451.6	-6,933.6	3,657.9	-428.4	3,682.9	353.32
14,182.0	88.70	357.60	10,453.1	-6,935.1	3,751.8	-431.7	3,776.5	353.44
14,276.0	90.10	359.00	10,454.0	-6,936.0	3,845.7	-434.5	3,870.2	353.55
14,369.0	89.00	358.70	10,454.8	-6,936.8	3,938.7	-436.3	3,962.8	353.68
14,463.0	87.90	358.00	10,457.3	-6,939.3	4,032.6	-439.1	4,056.5	353.79
14,557.0	88.20	359.50	10,460.5	-6,942.5	4,126.6	-441.1	4,150.1	353.90
14,652.0	89.90	0.50	10,462.1	-6,944.1	4,221.5	-441.1	4,244.5	354.03
14,746.0	91.60	1.30	10,460.9	-6,942.9	4,315.5	-439.6	4,337.9	354.18
14,839.0	92.20	0.80	10,457.8	-6,939.8	4,408.4	-437.9	4,430.1	354.33
14,933.0	91.00	0.50	10,455.2	-6,937.2	4,502.4	-436.9	4,523.5	354.46
15,026.0	92.50	0.50	10,452.3	-6,934.3	4,595.4	-436.0	4,616.0	354.58
15,121.0	89.20	358.30	10,450.9	-6,932.9	4,690.3	-437.0	4,710.6	354.68
15,180.2	89.33	358.24	10,451.7	-6,933.7	4,749.5	-438.8	4,769.8	354.72
PBHL Gazelle 22 B2MD Fed Com #2H								
15,215.0	89.40	358.20	10,452.0	-6,934.0	4,784.3	-439.9	4,804.5	354.75
15,309.0	89.50	358.00	10,453.0	-6,935.0	4,878.2	-443.0	4,898.3	354.81
15,347.0	89.10	358.00	10,453.4	-6,935.4	4,916.2	-444.4	4,936.2	354.84
15,404.1	89.10	358.00	10,454.3	-6,936.3	4,973.2	-446.3	4,993.2	354.87
15405.0' Projected to Bit								
15,405.0	89.10	358.00	10,454.3	-6,936.3	4,974.1	-446.4	4,994.1	354.87
New PBHL Gazelle 22 B2MD Fed Com #2H								



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 22-23S-34E Gazelle 22 B2MD Fed Com
Well: Gazelle 22 B2MD Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B2MD Fed Com #2H
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,404.1	10,454.3	4,973.2	-446.3	15405.0' Projected to Bit