



COMPANY: Mewbourne Oil Company
WELL: Quick Draw Y10B Fee #2H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson #41

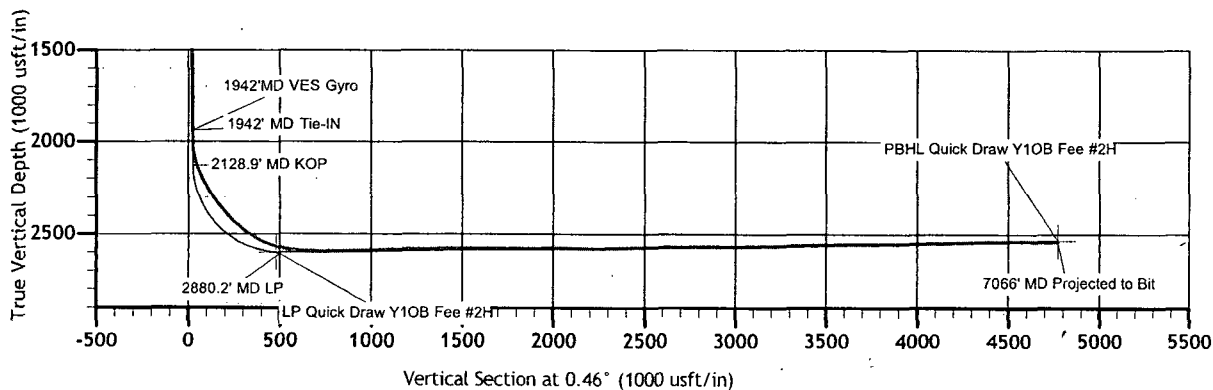
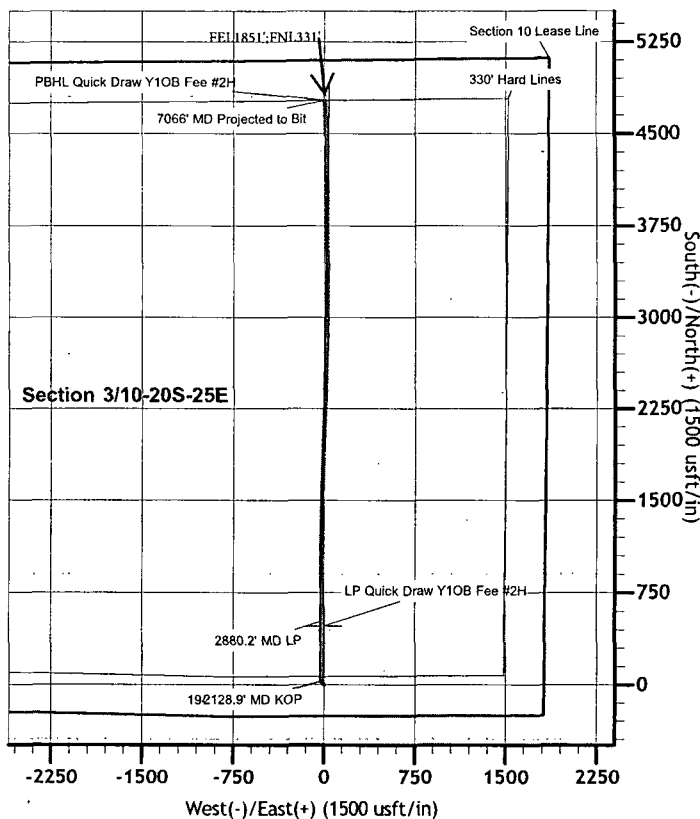
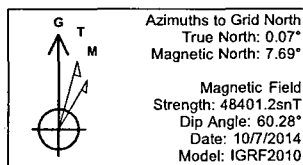


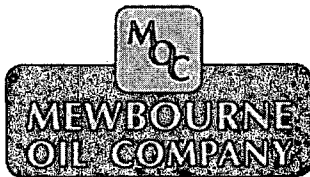
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.69°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001							Slot
3411 + 20 @ 3431.0usft (Patterson #41)							
GROUND ELEVATION: 3411.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	575157.70	458030.80	32° 34' 52.107 N	104° 28' 10.511 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	1942.0	1.47	298.75	1941.6	25.7	-25.5	0.00	0.00	25.5	
2	2128.9	1.47	298.75	2128.5	28.1	-29.7	0.00	0.00	27.8	
3	2880.2	90.85	0.96	2600.0	512.7	-32.5	12.00	62.19	512.4	
4	7140.9	90.85	0.96	2537.0	4772.3	38.6	0.00	0.00	4772.4	PBHL Quick Draw Y10B Fee #2H





NM OIL CONSERVATION
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Mewbourne Oil Company .

Eddy County, New Mexico

Section 10-20S-25E Quick Draw Y1OB #2H

Quick Draw 10 Y1OB Fee #2H

Original Hole

Design: Original Hole

Standard Survey Report

19 November, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Quick Draw 10 Y10B Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	3411 + 20 @ 3431.0usft (Patterson #41)
Site:	Section 10-20S-25E Quick Draw Y10B #2H	MD Reference:	3411 + 20 @ 3431.0usft (Patterson #41)
Well:	Quick Draw 10 Y10B Fee #2H	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 10-20S-25E Quick Draw Y10B #2H		
Site Position:	Map	Northing:	575,157.70 usft
From:		Easting:	458,030.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 34' 52.107 N
		Longitude:	104° 28' 10.511 W
		Grid Convergence:	-0.07 °

Well	Quick Draw 10 Y10B Fee #2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 34' 52.107 N
		Longitude:	104° 28' 10.511 W
		Ground Level:	3,411.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/7/2014	7.62	60.28	48,401

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	0.46

Survey Program	Date 11/19/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	1,942.0	VES Gyro Survey #1 (Original Hole)	NSG-CT_WL
1,999.0	7,066.0	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	0.47	263.00	100.0	0.0	-0.4	-0.1	0.47	0.47	0.00
	200.0	0.49	297.83	200.0	0.1	-1.2	0.1	0.29	0.02	34.83
	300.0	1.03	327.73	300.0	1.1	-2.1	1.0	0.65	0.54	29.90
	400.0	1.03	330.35	400.0	2.6	-3.0	2.6	0.05	0.00	2.62
	500.0	1.16	329.54	500.0	4.3	-3.9	4.2	0.13	0.13	-0.81
	600.0	1.16	329.51	599.9	6.0	-5.0	6.0	0.00	0.00	-0.03
	700.0	1.29	329.20	699.9	7.8	-6.0	7.8	0.13	0.13	-0.31
	800.0	1.35	323.68	799.9	9.8	-7.3	9.7	0.14	0.06	-5.52
	900.0	1.53	312.08	899.9	11.6	-9.0	11.5	0.34	0.18	-11.60



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Quick Draw 10 Y10B Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	3411 + 20 @ 3431.0usft (Patterson #41)
Site:	Section 10-20S-25E Quick Draw Y10B #2H	MD Reference:	3411 + 20 @ 3431.0usft (Patterson #41)
Well:	Quick Draw 10 Y10B Fee #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker EDM

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	1.53	311.17	999.8	13.4	-11.0	13.3	0.02	0.00	-0.91
1,100.0	1.26	320.40	1,099.8	15.1	-12.7	15.0	0.35	-0.27	9.23
1,200.0	1.22	325.95	1,199.8	16.8	-14.0	16.7	0.13	-0.04	5.55
1,300.0	1.00	325.17	1,299.7	18.4	-15.1	18.3	0.22	-0.22	-0.78
1,400.0	1.00	318.27	1,399.7	19.8	-16.2	19.7	0.12	0.00	-6.90
1,500.0	1.01	303.77	1,499.7	20.9	-17.5	20.8	0.25	0.01	-14.50
1,600.0	1.08	292.97	1,599.7	21.8	-19.1	21.6	0.21	0.07	-10.80
1,700.0	1.05	301.90	1,699.7	22.6	-20.7	22.5	0.17	-0.03	8.93
1,800.0	1.36	305.39	1,799.7	23.8	-22.5	23.6	0.32	0.31	3.49
1,900.0	1.51	301.88	1,899.6	25.2	-24.6	25.0	0.17	0.15	-3.51
1,942.0	1.47	298.75	1,941.6	25.7	-25.5	25.5	0.22	-0.10	-7.45
1942 MD VES Gyro									
1,999.0	1.20	325.30	1,998.6	26.6	-26.5	26.4	1.17	-0.47	46.58
2,031.0	3.10	347.40	2,030.6	27.7	-26.9	27.5	6.37	5.94	69.06
2,062.0	8.00	1.70	2,061.4	30.7	-27.0	30.5	16.30	15.81	46.13
2,093.0	13.80	5.50	2,091.8	36.5	-26.6	36.3	18.84	18.71	12.26
2,125.0	18.80	5.50	2,122.6	45.5	-25.7	45.3	15.63	15.63	0.00
2,156.0	22.30	5.50	2,151.6	56.3	-24.7	56.1	11.29	11.29	0.00
2,188.0	25.30	5.80	2,180.8	69.1	-23.4	69.0	9.38	9.38	0.94
2,219.0	28.10	5.20	2,208.5	83.0	-22.1	82.8	9.07	9.03	-1.94
2,251.0	29.30	5.20	2,236.6	98.3	-20.7	98.1	3.75	3.75	0.00
2,282.0	31.50	5.80	2,263.3	113.9	-19.2	113.8	7.16	7.10	1.94
2,314.0	34.10	4.50	2,290.2	131.2	-17.6	131.0	8.42	8.13	-4.06
2,345.0	35.70	1.40	2,315.7	148.9	-16.7	148.8	7.70	5.16	-10.00
2,377.0	36.80	0.70	2,341.5	167.8	-16.4	167.7	3.67	3.44	-2.19
2,408.0	39.30	0.30	2,365.9	186.9	-16.2	186.8	8.10	8.06	-1.29
2,440.0	41.70	0.50	2,390.2	207.7	-16.1	207.6	7.51	7.50	0.63
2,471.0	44.20	0.70	2,412.9	228.8	-15.8	228.7	8.08	8.06	0.65
2,503.0	47.00	1.10	2,435.3	251.7	-15.5	251.5	8.80	8.75	1.25
2,534.0	49.40	0.60	2,456.0	274.8	-15.1	274.7	7.83	7.74	-1.61
2,566.0	52.40	359.10	2,476.1	299.6	-15.2	299.5	10.06	9.38	-4.69
2,598.0	55.10	358.40	2,495.1	325.4	-15.8	325.3	8.62	8.44	-2.19
2,630.0	58.10	357.90	2,512.7	352.1	-16.6	352.0	9.47	9.38	-1.56
2,661.0	60.70	359.80	2,528.4	378.8	-17.2	378.6	9.91	8.39	6.13
2,693.0	64.40	0.90	2,543.2	407.2	-17.0	407.0	11.96	11.56	3.44
2,724.0	68.70	1.80	2,555.5	435.6	-16.3	435.5	14.12	13.87	2.90
2,756.0	72.30	2.40	2,566.2	465.7	-15.2	465.6	11.39	11.25	1.88
2,779.9	74.54	1.88	2,573.0	488.6	-14.4	488.5	9.61	9.37	-2.20
LP Quick Draw Y10B Fee #2H									
2,788.0	75.30	1.70	2,575.1	496.4	-14.1	496.3	9.61	9.38	-2.16
2,820.0	77.80	1.40	2,582.6	527.5	-13.3	527.4	7.87	7.81	-0.94
2,851.0	80.60	1.00	2,588.4	558.0	-12.6	557.9	9.12	9.03	-1.29
2,883.0	83.40	360.00	2,592.8	589.7	-12.4	589.6	9.28	8.75	-3.13



Stryker Directional Survey Report



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Site:	Section 10-20S-25E Quick Draw Y1OB #2H	MD Reference:	3411 + 20 @ 3431.0usft (Patterson #41)
Well:	Quick Draw 10-Y1OB Fee #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
2,930.0	89.40	358.20	2,595.8	636.6	-13.1	636.4	13.33	12.77	-3.83
3,025.0	90.80	357.30	2,595.6	731.5	-16.8	731.3	1.75	1.47	-0.95
3,120.0	90.30	356.90	2,594.7	826.3	-21.6	826.1	0.67	-0.53	-0.42
3,215.0	91.10	358.50	2,593.6	921.3	-25.4	921.0	1.88	0.84	1.68
3,310.0	92.20	0.90	2,590.8	1,016.2	-25.9	1,016.0	2.78	1.16	2.53
3,405.0	92.00	0.70	2,587.3	1,111.1	-24.6	1,110.9	0.30	-0.21	-0.21
3,500.0	91.20	1.50	2,584.7	1,206.1	-22.8	1,205.9	1.19	-0.84	0.84
3,594.0	90.70	1.20	2,583.1	1,300.0	-20.6	1,299.8	0.62	-0.53	-0.32
3,689.0	91.10	1.20	2,581.6	1,395.0	-18.6	1,394.8	0.42	0.42	0.00
3,784.0	90.50	1.00	2,580.3	1,490.0	-16.8	1,489.8	0.67	-0.63	-0.21
3,880.0	90.30	1.20	2,579.6	1,586.0	-14.9	1,585.8	0.29	-0.21	0.21
3,974.0	90.20	1.00	2,579.2	1,679.9	-13.1	1,679.8	0.24	-0.11	-0.21
4,069.0	90.20	1.20	2,578.9	1,774.9	-11.3	1,774.8	0.21	0.00	0.21
4,163.0	90.30	1.40	2,578.5	1,868.9	-9.2	1,868.8	0.24	0.11	0.21
4,258.0	90.30	1.70	2,578.0	1,963.9	-6.6	1,963.8	0.32	0.00	0.32
4,352.0	89.80	1.60	2,577.9	2,057.8	-3.9	2,057.7	0.54	-0.53	-0.11
4,447.0	89.50	2.00	2,578.5	2,152.8	-0.9	2,152.7	0.53	-0.32	0.42
4,542.0	90.30	1.80	2,578.6	2,247.7	2.2	2,247.7	0.87	0.84	-0.21
4,637.0	91.70	2.10	2,577.0	2,342.7	5.5	2,342.6	1.51	1.47	0.32
4,732.0	91.30	2.20	2,574.5	2,437.6	9.0	2,437.5	0.43	-0.42	0.11
4,827.0	90.60	1.90	2,572.9	2,532.5	12.4	2,532.5	0.80	-0.74	-0.32
4,922.0	91.30	1.80	2,571.4	2,627.4	15.5	2,627.5	0.74	0.74	-0.11
5,016.0	90.80	1.90	2,569.6	2,721.4	18.5	2,721.4	0.54	-0.53	0.11
5,112.0	90.30	1.30	2,568.7	2,817.3	21.2	2,817.4	0.81	-0.52	-0.63
5,204.0	90.10	1.40	2,568.4	2,909.3	23.4	2,909.4	0.24	-0.22	0.11
5,298.0	89.70	0.50	2,568.6	3,003.3	24.9	3,003.4	1.05	-0.43	-0.96
5,389.0	92.00	359.40	2,567.2	3,094.3	24.9	3,094.4	2.80	2.53	-1.21
5,483.0	91.30	359.90	2,564.5	3,188.2	24.3	3,188.3	0.92	-0.74	0.53
5,576.0	90.90	0.30	2,562.7	3,281.2	24.5	3,281.3	0.61	-0.43	0.43
5,670.0	90.70	0.30	2,561.4	3,375.2	24.9	3,375.3	0.21	-0.21	0.00
5,762.0	91.80	359.80	2,559.4	3,467.2	25.0	3,467.2	1.31	1.20	-0.54
5,854.0	91.60	359.80	2,556.7	3,559.1	24.7	3,559.2	0.22	-0.22	0.00
5,947.0	91.00	359.90	2,554.6	3,652.1	24.5	3,652.2	0.65	-0.65	0.11
6,040.0	90.60	359.90	2,553.3	3,745.1	24.3	3,745.2	0.43	-0.43	0.00
6,132.0	90.00	359.90	2,552.8	3,837.1	24.1	3,837.1	0.65	-0.65	0.00
6,225.0	91.20	359.30	2,551.8	3,930.1	23.5	3,930.1	1.44	1.29	-0.65
6,319.0	90.90	359.40	2,550.1	4,024.0	22.4	4,024.1	0.34	-0.32	0.11
6,411.0	90.60	359.20	2,548.9	4,116.0	21.3	4,116.1	0.39	-0.33	-0.22
6,507.0	92.40	359.20	2,546.4	4,212.0	20.0	4,212.0	1.88	1.88	0.00
6,600.0	91.70	358.60	2,543.0	4,304.9	18.2	4,304.9	0.99	-0.75	-0.65
6,694.0	91.20	358.50	2,540.7	4,398.8	15.8	4,398.8	0.54	-0.53	-0.11
6,787.0	90.50	357.90	2,539.3	4,491.8	12.9	4,491.8	0.99	-0.75	-0.65
6,882.0	89.90	357.90	2,538.9	4,586.7	9.4	4,586.7	0.63	-0.63	0.00
6,977.0	89.50	358.10	2,539.4	4,681.7	6.1	4,681.6	0.47	-0.42	0.21



Stryker Directional Survey Report



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Project:	Eddy County, New Mexico	TVD Reference:	3411 + 20 @ 3431'0usft (Patterson #41)
Site:	Section 10-20S-25E Quick Draw Y1OB #2H	MD Reference:	3411 + 20 @ 3431'0usft (Patterson #41)
Well:	Quick Draw 10 Y1OB Fee #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)
7,066.0	89.50	358.10	2,540.2	4,770.6	3.1	4,770.5	0.00	0.00	0.00
7066' MD Projected to Bit - PBHL Quick Draw Y1OB Fee #2H									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,942.0	1,941.6	25.7	-25.5	1942' MD VES Gyro
7,066.0	2,540.2	4,770.6	3.1	7066' MD Projected to Bit