



COMPANY: Mewbourne Oil Company
WELL: Quick Draw 10 Y2AP 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°

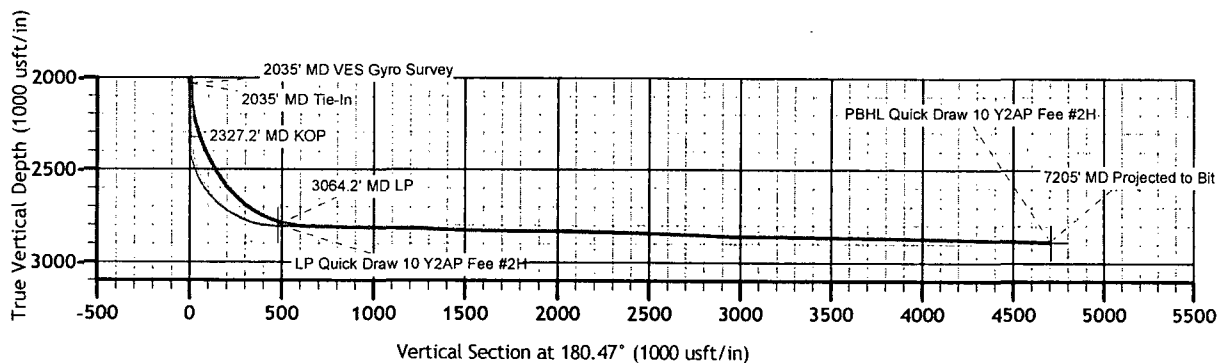
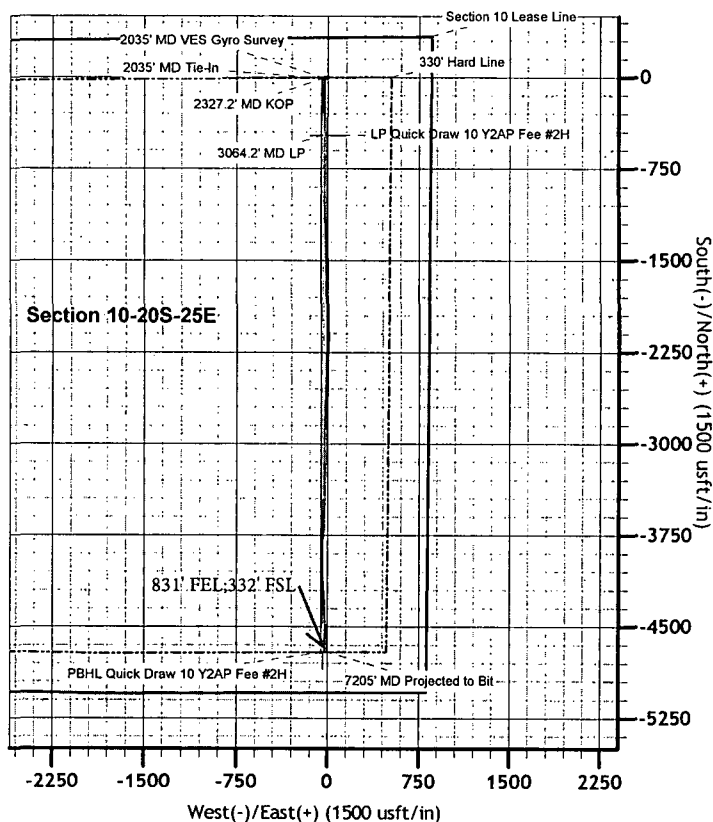
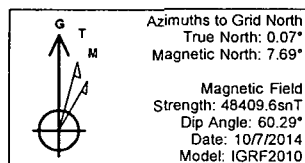
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001
3395 +20 @ 3415.0usft (Patterson #41)
GROUND ELEVATION: 3395.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	579939.10	459034.80	32° 35' 39.435 N	104° 27' 58.847 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	2035.0	0.80	241.44	2034.7	-5.5	-31.0	0.00	0.00	5.8	
2	2327.2	0.80	241.44	2326.9	-7.5	-34.6	0.00	0.00	7.7	
3	3064.2	88.82	179.98	2801.0	-475.1	-40.1	12.00	-61.47	475.4	
4	7296.5	88.82	179.98	2888.0	-4706.5	-39.0	0.00	0.00	4706.7	PBHL Quick Draw 10 Y2AP Fee #2H





NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 23 2015

RECEIVED

Mewbourne Oil Company .

Eddy County, New Mexico

Section 10-20S-25E Quick Draw 10 Y2AP Fee #2H

Quick Draw 10 Y2AP Fee #2H

Original Hole

Design: Original Hole

Standard Survey Report

02 December, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Quick Draw 10 Y2AP Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Site:	Section 10-20S-25E Quick Draw 10 Y2AP Fee #2H	MD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Well:	Quick Draw 10 Y2AP 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 10 Y2AP Fee #2H			
Site Position:		Northing:	579,939.10 usft	Latitude:	32° 35' 39.435 N
From:	Map	Easting:	459,034.80 usft	Longitude:	104° 27' 58.847 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.07 °

Well	Quick Draw 10 Y2AP Fee #2H					
Well Position	+N/-S	0.0 usft	Northing:	579,939.10 usft	Latitude:	32° 35' 39.435 N
	+E/-W	0.0 usft	Easting:	459,034.80 usft	Longitude:	104° 27' 58.847 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,395.0 usft

Wellbore	Original Hole				
-----------------	---------------	--	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/7/2014	7.62	60.29	48,410

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)	Direction (°)
	0.0	0.0	0.0	180.47

Survey Program	Date	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	12/2/2014	100.0	2,035.0	MS Gyro Survey (Original Hole)	GyroFlex	
		2,090.0	7,205.0	MWD Survey #2 (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	0.60	245.90	100.0	-0.2	-0.5	0.2	0.60	0.60	0.00
	200.0	0.75	240.97	200.0	-0.7	-1.5	0.8	0.16	0.15	-4.93
	300.0	0.96	248.65	300.0	-1.4	-2.9	1.4	0.24	0.21	7.68
	400.0	1.39	241.60	400.0	-2.2	-4.7	2.3	0.45	0.43	-7.05
	500.0	1.34	272.33	499.9	-2.8	-7.0	2.8	0.72	-0.05	30.73
	600.0	1.36	267.21	599.9	-2.8	-9.3	2.9	0.12	0.02	-5.12
	700.0	1.25	278.79	699.9	-2.7	-11.6	2.8	0.29	-0.11	11.58
	800.0	1.15	267.04	799.9	-2.6	-13.7	2.7	0.27	-0.10	-11.75



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Quick Draw 10 Y2AP Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Site:	Section 10-20S-25E Quick Draw 10 Y2AP Fee #2H	MD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Well:	Quick Draw 10 Y2AP 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)
900.0	0.81	281.45	899.8	-2.5	-15.4	2.6	0.42	-0.34	14.41
1,000.0	0.98	274.26	999.8	-2.3	-16.9	2.4	0.20	0.17	-7.19
1,100.0	0.79	288.16	1,099.8	-2.0	-18.4	2.1	0.29	-0.19	13.90
1,200.0	0.64	280.33	1,199.8	-1.7	-19.6	1.8	0.18	-0.15	-7.83
1,300.0	0.77	277.25	1,299.8	-1.5	-20.8	1.7	0.14	0.13	-3.08
1,400.0	0.61	274.44	1,399.8	-1.4	-22.0	1.5	0.16	-0.16	-2.81
1,500.0	0.76	249.43	1,499.8	-1.6	-23.2	1.8	0.33	0.15	-25.01
1,600.0	0.97	233.72	1,599.8	-2.3	-24.5	2.5	0.31	0.21	-15.71
1,700.0	1.15	240.74	1,699.8	-3.3	-26.0	3.5	0.22	0.18	7.02
1,800.0	1.05	246.70	1,799.7	-4.1	-27.8	4.4	0.15	-0.10	5.96
1,900.0	0.80	250.23	1,899.7	-4.7	-29.3	5.0	0.26	-0.25	3.53
2,035.0	0.80	241.44	2,034.7	-5.5	-31.0	5.8	0.09	0.00	-6.51
2035' MD VES Gyro Survey									
2,090.0	0.90	251.50	2,089.7	-5.8	-31.7	6.1	0.33	0.18	18.29
2,122.0	2.40	212.80	2,121.7	-6.5	-32.3	6.7	5.59	4.69	-120.94
2,154.0	6.40	197.10	2,153.6	-8.7	-33.2	9.0	12.94	12.50	-49.06
2,186.0	10.80	190.10	2,185.2	-13.4	-34.3	13.7	14.11	13.75	-21.88
2,217.0	14.20	184.50	2,215.5	-20.0	-35.1	20.3	11.63	10.97	-18.06
2,249.0	16.40	184.80	2,246.4	-28.5	-35.7	28.8	6.88	6.88	0.94
2,281.0	18.40	185.40	2,276.9	-38.0	-36.6	38.3	6.28	6.25	1.88
2,313.0	19.60	184.30	2,307.1	-48.4	-37.5	48.7	3.91	3.75	-3.44
2,344.0	21.50	182.10	2,336.2	-59.2	-38.1	59.5	6.61	6.13	-7.10
2,376.0	22.60	180.60	2,365.8	-71.2	-38.4	71.6	3.86	3.44	-4.69
2,408.0	23.90	179.60	2,395.2	-83.9	-38.4	84.2	4.25	4.06	-3.13
2,440.0	25.80	178.60	2,424.3	-97.3	-38.2	97.6	6.08	5.94	-3.13
2,472.0	27.80	178.70	2,452.8	-111.7	-37.8	112.1	6.25	6.25	0.31
2,504.0	29.60	180.10	2,480.9	-127.1	-37.7	127.4	6.00	5.63	4.38
2,535.0	30.90	181.10	2,507.7	-142.7	-37.8	143.0	4.50	4.19	3.23
2,567.0	33.10	180.70	2,534.8	-159.7	-38.1	160.0	6.91	6.88	-1.25
2,598.0	35.80	179.80	2,560.4	-177.2	-38.2	177.5	8.86	8.71	-2.90
2,630.0	38.90	178.70	2,585.8	-196.6	-37.9	196.9	9.91	9.69	-3.44
2,662.0	41.20	178.40	2,610.3	-217.2	-37.4	217.5	7.21	7.19	-0.94
2,694.0	43.80	177.40	2,633.9	-238.8	-36.6	239.1	8.39	8.13	-3.13
2,725.0	46.90	177.80	2,655.7	-260.8	-35.7	261.1	10.04	10.00	1.29
2,757.0	50.10	178.20	2,676.9	-284.8	-34.8	285.1	10.04	10.00	1.25
2,789.0	53.50	178.90	2,696.7	-309.9	-34.2	310.2	10.76	10.63	2.19
2,820.0	56.80	179.20	2,714.4	-335.4	-33.8	335.6	10.67	10.65	0.97
2,852.0	60.60	179.10	2,731.0	-362.7	-33.4	363.0	11.88	11.88	-0.31
2,883.0	64.00	178.20	2,745.4	-390.1	-32.7	390.4	11.26	10.97	-2.90
2,915.0	66.50	178.50	2,758.8	-419.2	-31.9	419.4	7.86	7.81	0.94
2,946.0	69.80	178.70	2,770.3	-447.9	-31.2	448.2	10.66	10.65	0.65
2,978.0	73.60	178.90	2,780.4	-478.3	-30.6	478.5	11.89	11.88	0.63



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Quick Draw 10 Y2AP Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Site:	Section 10-20S-25E Quick Draw 10 Y2AP Fee #2H	MD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Well:	Quick Draw 10 Y2AP 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)
2,985.5	74.23	179.10	2,782.5	-485.5	-30.4	485.8	8.75	8.38	2.61
LP Quick Draw 10 Y2AP Fee #2H									
3,009.0	76.20	179.70	2,788.5	-508.2	-30.2	508.5	8.75	8.39	2.57
3,040.0	79.60	179.60	2,795.0	-538.5	-30.0	538.8	10.97	10.97	-0.32
3,068.0	82.90	179.40	2,799.2	-566.2	-29.8	566.4	11.81	11.79	-0.71
3,147.0	89.10	179.50	2,804.7	-645.0	-29.0	645.2	7.85	7.85	0.13
3,211.0	88.80	179.20	2,805.9	-709.0	-28.3	709.2	0.66	-0.47	-0.47
3,306.0	88.60	179.10	2,808.1	-803.9	-26.9	804.1	0.24	-0.21	-0.11
3,401.0	89.00	178.50	2,810.0	-898.9	-24.9	899.1	0.76	0.42	-0.63
3,496.0	89.30	178.60	2,811.4	-993.8	-22.5	994.0	0.33	0.32	0.11
3,592.0	89.70	177.80	2,812.3	-1,089.8	-19.5	1,089.9	0.93	0.42	-0.83
3,686.0	89.20	179.30	2,813.2	-1,183.7	-17.1	1,183.8	1.68	-0.53	1.60
3,782.0	86.90	179.20	2,816.5	-1,279.7	-15.8	1,279.8	2.40	-2.40	-0.10
3,876.0	87.20	178.70	2,821.3	-1,373.5	-14.1	1,373.6	0.62	0.32	-0.53
3,972.0	87.20	178.10	2,826.0	-1,469.4	-11.4	1,469.4	0.62	0.00	-0.63
4,066.0	89.60	179.40	2,828.6	-1,563.3	-9.4	1,563.3	2.90	2.55	1.38
4,160.0	89.80	179.30	2,829.1	-1,657.3	-8.3	1,657.3	0.24	0.21	-0.11
4,255.0	89.90	179.10	2,829.3	-1,752.3	-7.0	1,752.3	0.24	0.11	-0.21
4,350.0	89.70	179.60	2,829.7	-1,847.3	-5.9	1,847.3	0.57	-0.21	0.53
4,445.0	89.80	179.70	2,830.1	-1,942.3	-5.3	1,942.3	0.15	0.11	0.11
4,540.0	90.00	179.10	2,830.3	-2,037.3	-4.3	2,037.3	0.67	0.21	-0.63
4,634.0	89.00	181.00	2,831.1	-2,131.3	-4.4	2,131.2	2.28	-1.06	2.02
4,728.0	88.40	181.40	2,833.2	-2,225.2	-6.4	2,225.2	0.77	-0.64	0.43
4,823.0	88.10	181.50	2,836.1	-2,320.2	-8.8	2,320.1	0.33	-0.32	0.11
4,917.0	88.40	180.80	2,839.0	-2,414.1	-10.7	2,414.1	0.81	0.32	-0.74
5,012.0	88.20	180.90	2,841.8	-2,509.0	-12.1	2,509.1	0.24	-0.21	0.11
5,107.0	88.00	181.60	2,845.0	-2,604.0	-14.2	2,604.0	0.77	-0.21	0.74
5,200.0	88.00	181.40	2,848.2	-2,696.9	-16.6	2,696.9	0.21	0.00	-0.22
5,296.0	88.00	180.80	2,851.5	-2,792.8	-18.4	2,792.9	0.62	0.00	-0.63
5,387.0	87.60	181.00	2,855.0	-2,883.7	-19.9	2,883.8	0.49	-0.44	0.22
5,481.0	89.50	181.40	2,857.4	-2,977.7	-21.8	2,977.7	2.07	2.02	0.43
5,573.0	89.40	181.40	2,858.3	-3,069.6	-24.1	3,069.7	0.11	-0.11	0.00
5,666.0	89.10	182.20	2,859.5	-3,162.6	-27.0	3,162.7	0.92	-0.32	0.86
5,760.0	88.70	181.60	2,861.3	-3,256.5	-30.1	3,256.6	0.77	-0.43	-0.64
5,853.0	89.60	181.20	2,862.7	-3,349.5	-32.4	3,349.6	1.06	0.97	-0.43
5,948.0	89.20	181.60	2,863.7	-3,444.4	-34.7	3,444.6	0.60	-0.42	0.42
6,041.0	89.40	181.60	2,864.8	-3,537.4	-37.3	3,537.6	0.22	0.22	0.00
6,133.0	89.00	182.10	2,866.1	-3,629.3	-40.3	3,629.5	0.70	-0.43	0.54
6,226.0	89.80	181.20	2,867.1	-3,722.3	-42.9	3,722.5	1.29	0.86	-0.97
6,318.0	89.60	180.70	2,867.6	-3,814.3	-44.5	3,814.5	0.59	-0.22	-0.54
6,412.0	89.50	180.70	2,868.3	-3,908.3	-45.6	3,908.5	0.11	-0.11	0.00
6,504.0	89.60	179.60	2,869.0	-4,000.3	-45.9	4,000.5	1.20	0.11	-1.20
6,597.0	87.90	177.50	2,871.1	-4,093.2	-43.5	4,093.4	2.90	-1.83	-2.26



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Quick Draw 10 Y2AP Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Site:	Section 10-20S-25E Quick Draw 10 Y2AP Fee #2H	MD Reference:	3395 +20 @ 3415.0usft (Patterson #41)
Well:	Quick Draw 10 Y2AP 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)
6,692.0	88.10	178.00	2,874.4	-4,188.1	-39.8	4,188.3	0.57	0.21	0.53
6,787.0	88.40	177.80	2,877.3	-4,283.0	-36.3	4,283.1	0.38	0.32	-0.21
6,883.0	88.70	177.20	2,879.7	-4,378.8	-32.1	4,379.0	0.70	0.31	-0.63
6,978.0	88.60	179.20	2,882.0	-4,473.8	-29.1	4,473.8	2.11	-0.11	2.11
7,074.0	89.00	178.40	2,884.0	-4,569.7	-27.1	4,569.8	0.93	0.42	-0.83
7,160.0	89.50	178.70	2,885.1	-4,655.7	-24.9	4,655.7	0.68	0.58	0.35
7,205.0	89.50	178.70	2,885.5	-4,700.7	-23.9	4,700.7	0.00	0.00	0.00

7205' MD Projected to Bit - PBHL Quick Draw 10 Y2AP Fee #2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,035.0	2,034.7	-5.5	-31.0	2035' MD VES Gyro Survey
7,205.0	2,885.5	-4,700.7	-23.9	7205' MD Projected to Bit