

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
QUICK DRAW 10 Y2AP FEE 002H
EDDY

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 05 2015

STATE OF NEW MEXICO
DEVIATION REPORT

1542435

RECEIVED

378	1.60
903	1.48
1,345	0.56
1,757	0.25

BY: _____

Dora Garcia

STATE OF TEXAS

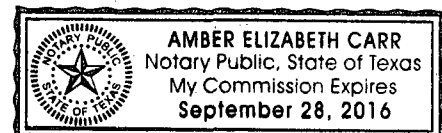
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Dora Garcia on behalf of Patterson-UTI Drilling Company LLC.

1/20/15, by

Amber Elizabeth Carr

Notary Public for Midland County, Texas
My Commission Expires:





COMPANY: Mewbourne Oil Company
 WELL: Quick Draw 10 Y2AP Fee #2H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #41

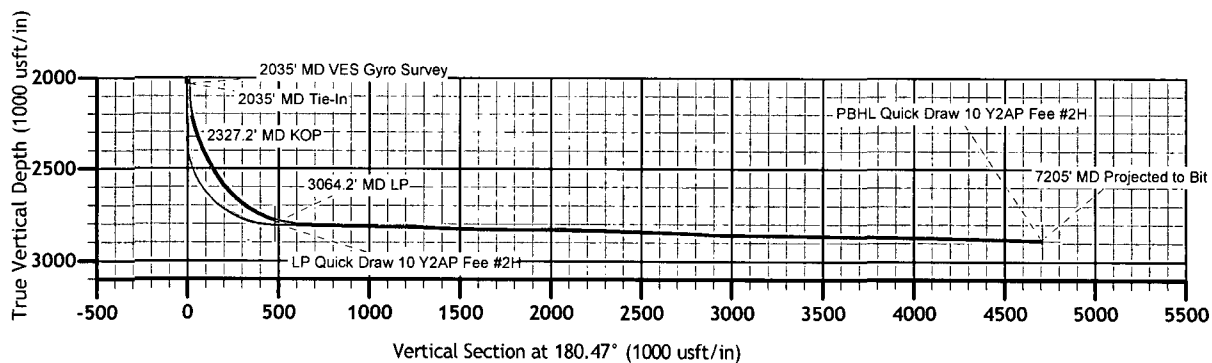
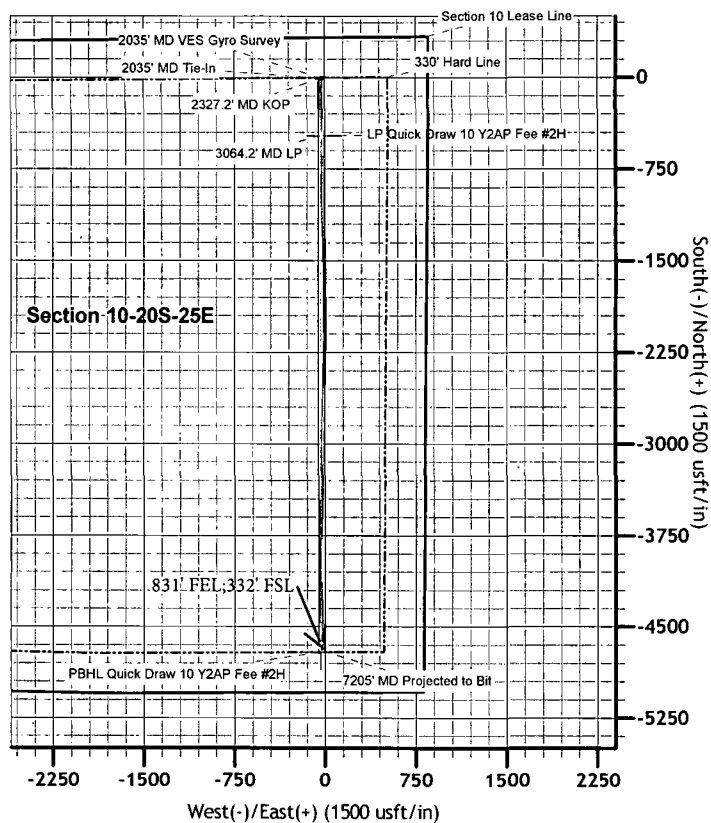
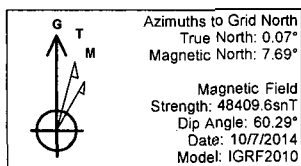


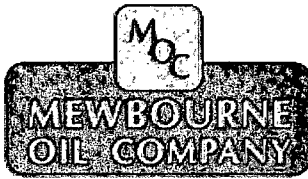
OFFICE: 936.582.7296

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

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	Diag	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

MAR 05 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
From:	Map	Easting:	459,034.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 35' 39.435 N
		Longitude:	104° 27' 58.847 W
		Grid Convergence:	-0.07 °

Well	Quick Draw 10 Y2AP Fee #2H		
Well Position	+N/-S	0.0 usft	Northing: 579,939.10 usft
	+E/-W	0.0 usft	Easting: 459,034.80 usft
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	12/2/2014	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
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

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