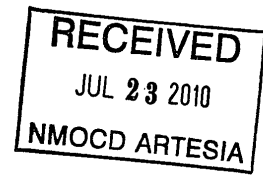


30 015 38044



Devon Energy, Inc.

Eddy County
Todd "36B" State
#20H
OH

Plan: Plan #1

Pathfinder X & Y Planning Report

WZ

15 July, 2010



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County	TVD Reference:	WELL @ 3531.40ft (15' KB Correction)
Site:	Todd "36B" State	MD Reference:	WELL @ 3531.40ft (15' KB Correction)
Well:	#20H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Project:	Eddy County
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Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Todd "36B" State
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Site Position:		Northing:	461,808.600 ft	Latitude:	32° 16' 5.336 N
From:	Map	Easting:	727,607.430 ft	Longitude:	103° 43' 50.462 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.32 °

Well	#20H
------	------

Well Position	+N-S	0.00 ft	Northing:	461,808.600 ft	Latitude:	32° 16' 5.336 N
	+E-W	0.00 ft	Easting:	727,607.430 ft	Longitude:	103° 43' 50.462 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,516.40 ft

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/30/2010	7.76	60.24	48,746

Design	Plan #1
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Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft) +N-S (ft) +E-W (ft) Direction (°)
	0.00 0.00 0.00 157.10

Survey Tool Program	Date 07/15/2010
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From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	14,184.88	Plan #1 (OH)	Pathfinder	Pathfinder MWD

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #20H
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Well:	#20H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	-3,531.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
100.00	0.00	0.00	100.00	-3,431.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
200.00	0.00	0.00	200.00	-3,331.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
300.00	0.00	0.00	300.00	-3,231.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
400.00	0.00	0.00	400.00	-3,131.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
500.00	0.00	0.00	500.00	-3,031.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
600.00	0.00	0.00	600.00	-2,931.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
700.00	0.00	0.00	700.00	-2,831.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
800.00	0.00	0.00	800.00	-2,731.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
900.00	0.00	0.00	900.00	-2,631.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,000.00	0.00	0.00	1,000.00	-2,531.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,100.00	0.00	0.00	1,100.00	-2,431.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,200.00	0.00	0.00	1,200.00	-2,331.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,300.00	0.00	0.00	1,300.00	-2,231.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,400.00	0.00	0.00	1,400.00	-2,131.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,500.00	0.00	0.00	1,500.00	-2,031.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,600.00	0.00	0.00	1,600.00	-1,931.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,700.00	0.00	0.00	1,700.00	-1,831.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,800.00	0.00	0.00	1,800.00	-1,731.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
1,900.00	0.00	0.00	1,900.00	-1,631.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
2,000.00	0.00	0.00	2,000.00	-1,531.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
2,100.00	0.00	0.00	2,100.00	-1,431.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
2,200.00	0.00	0.00	2,200.00	-1,331.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
2,300.00	0.00	0.00	2,300.00	-1,231.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
2,400.00	0.00	0.00	2,400.00	-1,131.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
2,500.00	0.00	0.00	2,500.00	-1,031.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43
2,600.00	0.00	0.00	2,600.00	-931.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43



Pathfinder
Pathfinder X & Y Planning Report



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Project:	Eddy County	TVD Reference:	WELL @ 3531.40ft (15' KB Correction)
Site:	Todd "36B" State	MD Reference:	WELL @ 3531.40ft (15' KB Correction)
Well:	#20H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
2,700.00	0.00	0.00	2,700.00	-831.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
2,800.00	0.00	0.00	2,800.00	-731.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
2,900.00	0.00	0.00	2,900.00	-631.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,000.00	0.00	0.00	3,000.00	-531.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,100.00	0.00	0.00	3,100.00	-431.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,200.00	0.00	0.00	3,200.00	-331.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,300.00	0.00	0.00	3,300.00	-231.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,400.00	0.00	0.00	3,400.00	-131.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,500.00	0.00	0.00	3,500.00	-31.40	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,600.00	0.00	0.00	3,600.00	68.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,700.00	0.00	0.00	3,700.00	168.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,800.00	0.00	0.00	3,800.00	268.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
3,900.00	0.00	0.00	3,900.00	368.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,000.00	0.00	0.00	4,000.00	468.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,100.00	0.00	0.00	4,100.00	568.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,200.00	0.00	0.00	4,200.00	668.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,300.00	0.00	0.00	4,300.00	768.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,400.00	0.00	0.00	4,400.00	868.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,500.00	0.00	0.00	4,500.00	968.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,600.00	0.00	0.00	4,600.00	1,068.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,700.00	0.00	0.00	4,700.00	1,168.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,800.00	0.00	0.00	4,800.00	1,268.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
4,900.00	0.00	0.00	4,900.00	1,368.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
5,000.00	0.00	0.00	5,000.00	1,468.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
5,100.00	0.00	0.00	5,100.00	1,568.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
5,200.00	0.00	0.00	5,200.00	1,668.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	
5,300.00	0.00	0.00	5,300.00	1,768.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43	



Pathfinder
Pathfinder X & Y Planning Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County	TVD Reference:	WELL @ 3531.40ft (15' KB Correction)
Site:	Todd "36B" State	MD Reference:	WELL @ 3531.40ft (15' KB Correction)
Well:	#20H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
5,400.00	0.00	0.00	5,400.00	1,868.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
5,500.00	0.00	0.00	5,500.00	1,968.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
5,600.00	0.00	0.00	5,600.00	2,068.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
5,700.00	0.00	0.00	5,700.00	2,168.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
5,800.00	0.00	0.00	5,800.00	2,268.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
5,900.00	0.00	0.00	5,900.00	2,368.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,000.00	0.00	0.00	6,000.00	2,468.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,100.00	0.00	0.00	6,100.00	2,568.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,200.00	0.00	0.00	6,200.00	2,668.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,300.00	0.00	0.00	6,300.00	2,768.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,400.00	0.00	0.00	6,400.00	2,868.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,500.00	0.00	0.00	6,500.00	2,968.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,600.00	0.00	0.00	6,600.00	3,068.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,700.00	0.00	0.00	6,700.00	3,168.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,800.00	0.00	0.00	6,800.00	3,268.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
6,900.00	0.00	0.00	6,900.00	3,368.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,000.00	0.00	0.00	7,000.00	3,468.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,100.00	0.00	0.00	7,100.00	3,568.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,200.00	0.00	0.00	7,200.00	3,668.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,300.00	0.00	0.00	7,300.00	3,768.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,400.00	0.00	0.00	7,400.00	3,868.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,500.00	0.00	0.00	7,500.00	3,968.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,600.00	0.00	0.00	7,600.00	4,068.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,700.00	0.00	0.00	7,700.00	4,168.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,800.00	0.00	0.00	7,800.00	4,268.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
7,900.00	0.00	0.00	7,900.00	4,368.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
8,000.00	0.00	0.00	8,000.00	4,468.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43



Pathfinder
Pathfinder X & Y Planning Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County	TVD Reference:	WELL @ 3531.40ft (15' KB Correction)
Site:	Todd "36B" State	MD Reference:	WELL @ 3531.40ft (15' KB Correction)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,100.00	0.00	0.00	8,100.00	4,568.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
8,200.00	0.00	0.00	8,200.00	4,668.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
8,300.00	0.00	0.00	8,300.00	4,768.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
8,400.00	0.00	0.00	8,400.00	4,868.60	0.00	0.00	0.00	0.00	461,808.60	727,607.43
8,473.50	0.00	0.00	8,473.50	4,942.10	0.00	0.00	0.00	0.00	461,808.60	727,607.43
8,500.00	2.39	157.10	8,499.99	4,968.59	-0.51	0.21	0.55	9.00	461,808.09	727,607.64
8,550.00	6.89	157.10	8,549.82	5,018.42	-4.23	1.79	4.59	9.00	461,804.37	727,609.22
8,600.00	11.39	157.10	8,599.17	5,067.77	-11.54	4.88	12.53	9.00	461,797.06	727,612.31
8,650.00	15.89	157.10	8,647.75	5,116.35	-22.40	9.46	24.31	9.00	461,786.20	727,616.89
8,700.00	20.39	157.10	8,695.25	5,163.85	-36.73	15.52	39.88	9.00	461,771.87	727,622.95
8,750.00	24.89	157.10	8,741.39	5,209.99	-54.46	23.00	59.12	9.00	461,754.14	727,630.43
8,800.00	29.39	157.10	8,785.87	5,254.47	-75.46	31.88	81.92	9.00	461,733.14	727,639.31
8,850.00	33.89	157.10	8,828.43	5,297.03	-99.62	42.08	108.14	9.00	461,708.98	727,649.51
8,900.00	38.39	157.10	8,868.79	5,337.39	-126.78	53.55	137.62	9.00	461,681.82	727,660.98
8,950.00	42.89	157.10	8,906.72	5,375.32	-156.77	66.22	170.18	9.00	461,651.83	727,673.65
9,000.00	47.39	157.10	8,941.98	5,410.58	-189.41	80.01	205.61	9.00	461,619.19	727,687.44
9,050.00	51.89	157.10	8,974.35	5,442.95	-224.50	94.83	243.70	9.00	461,584.10	727,702.26
9,100.00	56.39	157.10	9,003.63	5,472.23	-261.82	110.60	284.22	9.00	461,546.78	727,718.03
9,150.00	60.89	157.10	9,029.64	5,498.24	-301.14	127.21	326.91	9.00	461,507.46	727,734.64
9,200.00	65.40	157.10	9,052.22	5,520.82	-342.22	144.56	371.50	9.00	461,466.38	727,751.99
9,250.00	69.90	157.10	9,071.24	5,539.84	-384.81	162.55	417.73	9.00	461,423.79	727,769.98
9,300.00	74.40	157.10	9,086.56	5,555.16	-428.64	181.06	465.31	9.00	461,379.96	727,788.49
9,350.00	78.90	157.10	9,098.11	5,566.71	-473.44	199.99	513.95	9.00	461,335.16	727,807.42
9,400.00	83.40	157.10	9,105.80	5,574.40	-518.94	219.21	563.34	9.00	461,289.66	727,826.64
9,450.00	87.90	157.10	9,109.59	5,578.19	-564.86	238.60	613.18	9.00	461,243.74	727,846.03
9,468.56	89.57	157.10	9,110.00	5,578.60	-581.95	245.83	631.74	9.00	461,226.65	727,853.26
9,500.00	89.57	157.10	9,110.24	5,578.84	-610.91	258.06	663.18	0.00	461,197.69	727,865.49



Pathfinder
Pathfinder X & Y Planning Report



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Site:	Todd "36B" State	MD Reference:	WELL @ 3531.40ft (15' KB Correction)
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MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,600.00	89.57	157.10	9,110.99	5,579.59	-703.02	296.97	763.17	0.00	461,105.58	727,904.40
9,700.00	89.57	157.10	9,111.74	5,580.34	-795.14	335.88	863.17	0.00	461,013.46	727,943.31
9,800.00	89.57	157.10	9,112.49	5,581.09	-887.26	374.79	963.17	0.00	460,921.34	727,982.22
9,900.00	89.57	157.10	9,113.24	5,581.84	-979.37	413.70	1,063.17	0.00	460,829.23	728,021.13
10,000.00	89.57	157.10	9,113.99	5,582.59	-1,071.49	452.61	1,163.16	0.00	460,737.11	728,060.04
10,100.00	89.57	157.10	9,114.74	5,583.34	-1,163.60	491.53	1,263.16	0.00	460,645.00	728,098.96
10,200.00	89.57	157.10	9,115.49	5,584.09	-1,255.72	530.44	1,363.16	0.00	460,552.88	728,137.87
10,300.00	89.57	157.10	9,116.24	5,584.84	-1,347.84	569.35	1,463.15	0.00	460,460.76	728,176.78
10,400.00	89.57	157.10	9,116.99	5,585.59	-1,439.95	608.26	1,563.15	0.00	460,368.65	728,215.69
10,500.00	89.57	157.10	9,117.74	5,586.34	-1,532.07	647.17	1,663.15	0.00	460,276.53	728,254.60
10,600.00	89.57	157.10	9,118.49	5,587.09	-1,624.18	686.08	1,763.15	0.00	460,184.42	728,293.51
10,700.00	89.57	157.10	9,119.24	5,587.84	-1,716.30	724.99	1,863.14	0.00	460,092.30	728,332.42
10,800.00	89.57	157.10	9,119.99	5,588.59	-1,808.42	763.90	1,963.14	0.00	460,000.18	728,371.33
10,900.00	89.57	157.10	9,120.74	5,589.34	-1,900.53	802.82	2,063.14	0.00	459,908.07	728,410.25
11,000.00	89.57	157.10	9,121.49	5,590.09	-1,992.65	841.73	2,163.13	0.00	459,815.95	728,449.16
11,100.00	89.57	157.10	9,122.24	5,590.84	-2,084.76	880.64	2,263.13	0.00	459,723.84	728,488.07
11,200.00	89.57	157.10	9,122.99	5,591.59	-2,176.88	919.55	2,363.13	0.00	459,631.72	728,526.98
11,300.00	89.57	157.10	9,123.74	5,592.34	-2,269.00	958.46	2,463.13	0.00	459,539.60	728,565.89
11,400.00	89.57	157.10	9,124.50	5,593.10	-2,361.11	997.37	2,563.12	0.00	459,447.49	728,604.80
11,500.00	89.57	157.10	9,125.25	5,593.85	-2,453.23	1,036.28	2,663.12	0.00	459,355.37	728,643.71
11,600.00	89.57	157.10	9,126.00	5,594.60	-2,545.34	1,075.20	2,763.12	0.00	459,263.26	728,682.63
11,700.00	89.57	157.10	9,126.75	5,595.35	-2,637.46	1,114.11	2,863.12	0.00	459,171.14	728,721.54
11,800.00	89.57	157.10	9,127.50	5,596.10	-2,729.58	1,153.02	2,963.11	0.00	459,079.02	728,760.45
11,900.00	89.57	157.10	9,128.25	5,596.85	-2,821.69	1,191.93	3,063.11	0.00	458,986.91	728,799.36
12,000.00	89.57	157.10	9,129.00	5,597.60	-2,913.81	1,230.84	3,163.11	0.00	458,894.79	728,838.27
12,100.00	89.57	157.10	9,129.75	5,598.35	-3,005.92	1,269.75	3,263.10	0.00	458,802.68	728,877.18
12,200.00	89.57	157.10	9,130.50	5,599.10	-3,098.04	1,308.66	3,363.10	0.00	458,710.56	728,916.09



Pathfinder
Pathfinder X & Y Planning Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #20H:
Project:	Eddy County	TVD Reference:	WELL @ 3531.40ft (15' KB Correction)
Site:	Todd "36B" State	MD Reference:	WELL @ 3531.40ft (15' KB Correction)
Well:	#20H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
12,300.00	89.57	157.10	9,131.25	5,599.85	-3,190.16	1,347.57	3,463.10	0.00	458,618.44	728,955.00
12,400.00	89.57	157.10	9,132.00	5,600.60	-3,282.27	1,386.49	3,563.10	0.00	458,526.33	728,993.92
12,500.00	89.57	157.10	9,132.75	5,601.35	-3,374.39	1,425.40	3,663.09	0.00	458,434.21	729,032.83
12,600.00	89.57	157.10	9,133.50	5,602.10	-3,466.50	1,464.31	3,763.09	0.00	458,342.10	729,071.74
12,700.00	89.57	157.10	9,134.25	5,602.85	-3,558.62	1,503.22	3,863.09	0.00	458,249.98	729,110.65
12,800.00	89.57	157.10	9,135.00	5,603.60	-3,650.74	1,542.13	3,963.08	0.00	458,157.86	729,149.56
12,900.00	89.57	157.10	9,135.75	5,604.35	-3,742.85	1,581.04	4,063.08	0.00	458,065.75	729,188.47
13,000.00	89.57	157.10	9,136.50	5,605.10	-3,834.97	1,619.95	4,163.08	0.00	457,973.63	729,227.38
13,100.00	89.57	157.10	9,137.25	5,605.85	-3,927.08	1,658.86	4,263.08	0.00	457,881.52	729,266.29
13,200.00	89.57	157.10	9,138.00	5,606.60	-4,019.20	1,697.78	4,363.07	0.00	457,789.40	729,305.21
13,300.00	89.57	157.10	9,138.75	5,607.35	-4,111.31	1,736.69	4,463.07	0.00	457,697.29	729,344.12
13,400.00	89.57	157.10	9,139.50	5,608.10	-4,203.43	1,775.60	4,563.07	0.00	457,605.17	729,383.03
13,500.00	89.57	157.10	9,140.26	5,608.86	-4,295.55	1,814.51	4,663.06	0.00	457,513.05	729,421.94
13,600.00	89.57	157.10	9,141.01	5,609.61	-4,387.66	1,853.42	4,763.06	0.00	457,420.94	729,460.85
13,700.00	89.57	157.10	9,141.76	5,610.36	-4,479.78	1,892.33	4,863.06	0.00	457,328.82	729,499.76
13,800.00	89.57	157.10	9,142.51	5,611.11	-4,571.89	1,931.24	4,963.06	0.00	457,236.71	729,538.67
13,900.00	89.57	157.10	9,143.26	5,611.86	-4,664.01	1,970.16	5,063.05	0.00	457,144.59	729,577.59
14,000.00	89.57	157.10	9,144.01	5,612.61	-4,756.13	2,009.07	5,163.05	0.00	457,052.47	729,616.50
14,100.00	89.57	157.10	9,144.76	5,613.36	-4,848.24	2,047.98	5,263.05	0.00	456,960.36	729,655.41
14,185.53	89.57	157.10	9,145.40	5,614.00	-4,927.03	2,081.26	5,348.58	0.00	456,881.57	729,688.69
PBHL(T36Bs#20H)										

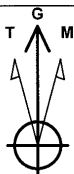
Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #20H
Project:	Eddy County	TVD Reference:	WELL @ 3531.40ft (15' KB Correction)
Site:	Todd "36B" State	MD Reference:	WELL @ 3531.40ft (15' KB Correction)
Well:	#20H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(T36Bs#20H)	0.00	0.00	9,145.00	-4,926.88	2,081.62	456,881.720	729,689.050	32° 15' 16.466 N	103° 43' 26.543 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Checked By: _____	Approved By: _____	Date: _____
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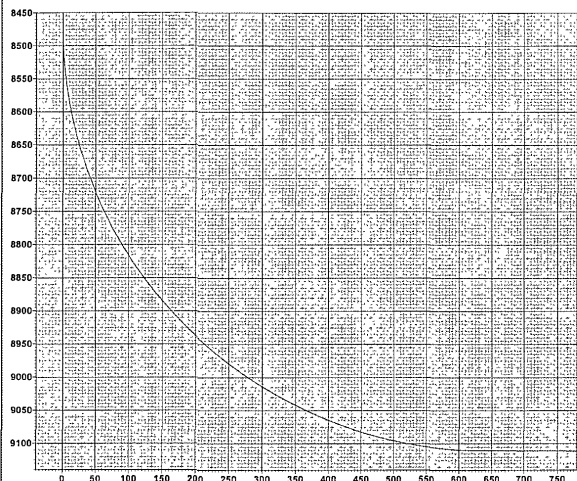


Project: Eddy County
Site: Todd "36B" State
Well: #20H
Wellbore: OH
Plan: Plan #1 (#20H/OH)



Azimuths to Grid North
True North: -0.32°
Magnetic North: 7.43°

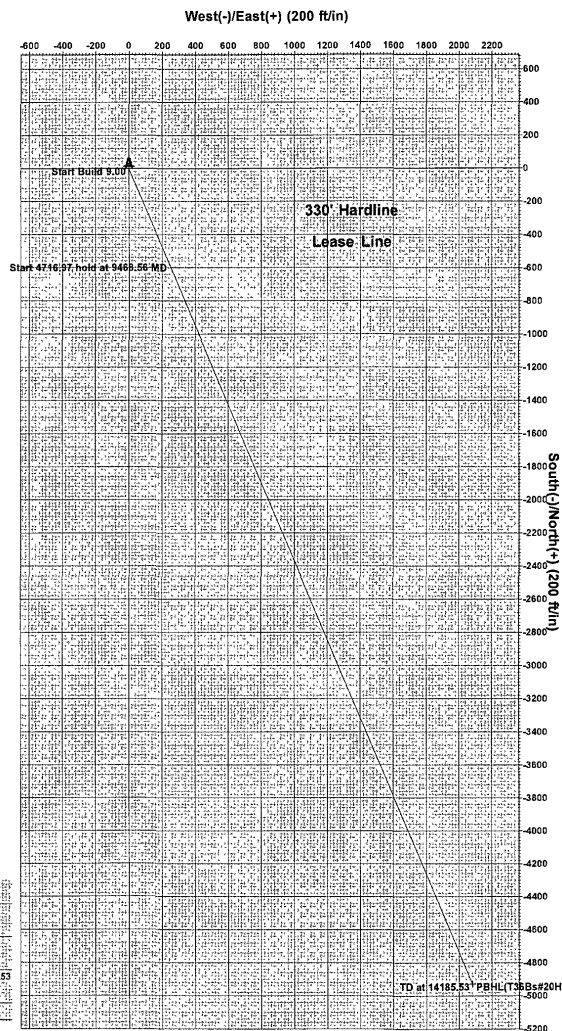
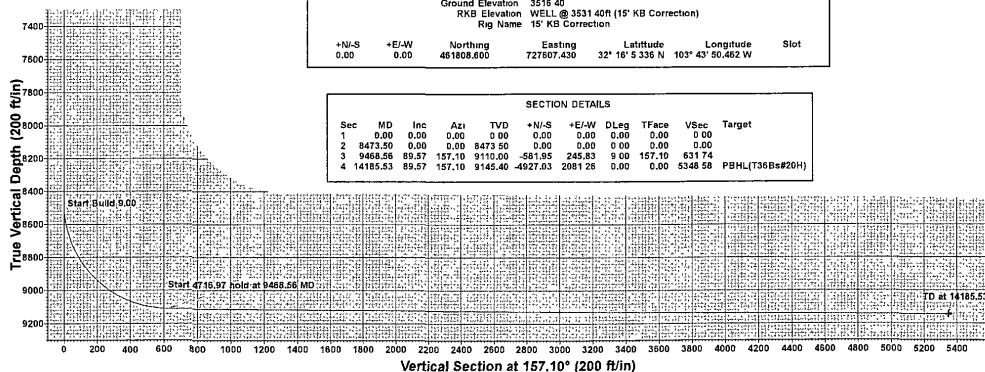
Magnetic Field
Strength: 48745.6nT
Dip Angle: 60.24°
Date: 07/30/2010
Model: IGRF200510



PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

WELL DETAILS #20H						
Ground Elevation		3516.40				
RKB Elevation		WELL @ 3631.40R (15' KB Correction)				
Rig Name		15' KB Correction				
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	461808.600	727607.430	32° 16' 5.336 N	103° 43' 50.462 W	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8473.50	0.00	0.00	8473.50	0.00	0.00	0.00	0.00	0.00	
3	9468.56	89.57	157.10	9110.00	-581.95	245.83	9.00	157.10	6317.4	
4	14185.53	89.57	157.10	9145.40	-4927.03	2081.28	0.00	0.00	5348.58	PBHL(T36B#20H)



Plan Plan #1 (#20H/OH)
Created By Nate Bingham Date 16 44, July 15 2010