

Devon Energy Production Company, L.P.

Eddy County

Agate PWU "21"

#2H

OH

30-015-38605

Plan: Design #1

Pathfinder X & Y Planning Report

29 March, 2011

PATHFINDER
A Schlumberger Company

Pathfinder
Pathfinder X & Y Planning Report

Company: Devon Energy Production Company, L.P.

Project: Eddy County

Site: Agate PWU "21"

Well: #2H

Wellbore: OH

Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well #2H

WELL @ 3336.10usft (25' KB Correction)

WELL @ 3336.10usft (25' KB Correction)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

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

Site	Agate PWU "21"		
Site Position:		North:	32° 39' 7.230 N
From:	Map	Easting:	104° 5' 14.290 W
Position Uncertainty:	0.00 usft	Slot Radius:	0.13°
		Latitude:	
		Longitude:	
		Grid Convergence:	

Well	#2H		
Well Position		North:	32° 38' 55.108 N
		Easting:	104° 5' 14.342 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,311.10 usft
		Latitude:	
		Longitude:	
		Ground Level:	

Wellbore	OH		
Magnetics			
		Dip Angle	Field Strength
		(°)	(nT)
		60.52	48.872

Design	Design #1		
Audit Notes:			
Version:		Phase:	Tie On Depth:
		PLAN	0.00
Vertical Section:		Depth From (TVD)	Direction
		(usft)	(°)
		+N/S	+E/W
		(usft)	(usft)
		0.00	0.00
			90.05

Survey Tool Program	Date	03/29/11	
From	To	Survey (Wellbore)	Description
(usft)	(usft)		
0.00	12,229.84	Design #1 (OH)	MWD - Standard

Pathfinder
Pathfinder X & Y Planning Report

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Agate PWU "21"
Well: #2H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #2H
WELL @ 3336.10usft (25' KB Correction)
WELL @ 3336.10usft (25' KB Correction)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	3,336.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
100.00	0.00	0.00	100.00	3,236.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
200.00	0.00	0.00	200.00	3,136.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
300.00	0.00	0.00	300.00	3,036.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
400.00	0.00	0.00	400.00	2,936.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
500.00	0.00	0.00	500.00	2,836.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
600.00	0.00	0.00	600.00	2,736.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
700.00	0.00	0.00	700.00	2,636.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
800.00	0.00	0.00	800.00	2,536.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
900.00	0.00	0.00	900.00	2,436.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,000.00	0.00	0.00	1,000.00	2,336.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,100.00	0.00	0.00	1,100.00	2,236.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,200.00	0.00	0.00	1,200.00	2,136.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,300.00	0.00	0.00	1,300.00	2,036.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,400.00	0.00	0.00	1,400.00	1,936.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,500.00	0.00	0.00	1,500.00	1,836.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,600.00	0.00	0.00	1,600.00	1,736.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,700.00	0.00	0.00	1,700.00	1,636.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,800.00	0.00	0.00	1,800.00	1,536.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
1,900.00	0.00	0.00	1,900.00	1,436.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,000.00	0.00	0.00	2,000.00	1,336.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,100.00	0.00	0.00	2,100.00	1,236.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,200.00	0.00	0.00	2,200.00	1,136.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,300.00	0.00	0.00	2,300.00	1,036.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,400.00	0.00	0.00	2,400.00	936.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,500.00	0.00	0.00	2,500.00	836.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,600.00	0.00	0.00	2,600.00	736.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88

Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
 Project: Eddy County
 Site: Agate PWU "21"
 Well: #2H
 Wellbore: OH
 Design: Design #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well #2H
 WELL @ 3336.10usft (25' KB Correction)
 WELL @ 3336.10usft (25' KB Correction)
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
2,700.00	0.00	0.00	2,700.00	636.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,800.00	0.00	0.00	2,800.00	536.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
2,900.00	0.00	0.00	2,900.00	436.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,000.00	0.00	0.00	3,000.00	336.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,100.00	0.00	0.00	3,100.00	236.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,200.00	0.00	0.00	3,200.00	136.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,300.00	0.00	0.00	3,300.00	36.10	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,400.00	0.00	0.00	3,400.00	-63.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,500.00	0.00	0.00	3,500.00	-163.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,600.00	0.00	0.00	3,600.00	-263.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,700.00	0.00	0.00	3,700.00	-363.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,800.00	0.00	0.00	3,800.00	-463.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
3,900.00	0.00	0.00	3,900.00	-563.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,000.00	0.00	0.00	4,000.00	-663.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,100.00	0.00	0.00	4,100.00	-763.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,200.00	0.00	0.00	4,200.00	-863.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,300.00	0.00	0.00	4,300.00	-963.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,400.00	0.00	0.00	4,400.00	-1,063.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,500.00	0.00	0.00	4,500.00	-1,163.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,600.00	0.00	0.00	4,600.00	-1,263.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,700.00	0.00	0.00	4,700.00	-1,363.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,800.00	0.00	0.00	4,800.00	-1,463.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
4,900.00	0.00	0.00	4,900.00	-1,563.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,000.00	0.00	0.00	5,000.00	-1,663.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,100.00	0.00	0.00	5,100.00	-1,763.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,200.00	0.00	0.00	5,200.00	-1,863.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,300.00	0.00	0.00	5,300.00	-1,963.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88

Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
 Project: Eddy County
 Site: Agate PWU "21"
 Well: #2H
 Wellbore: OH
 Design: Design #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well #2H
 WELL @ 3336.10usft (25' KB Correction)
 WELL @ 3336.10usft (25' KB Correction)
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
5,400.00	0.00	0.00	5,400.00	-2,063.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,500.00	0.00	0.00	5,500.00	-2,163.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,600.00	0.00	0.00	5,600.00	-2,263.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,700.00	0.00	0.00	5,700.00	-2,363.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,800.00	0.00	0.00	5,800.00	-2,463.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
5,900.00	0.00	0.00	5,900.00	-2,563.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,000.00	0.00	0.00	6,000.00	-2,663.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,100.00	0.00	0.00	6,100.00	-2,763.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,200.00	0.00	0.00	6,200.00	-2,863.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,300.00	0.00	0.00	6,300.00	-2,963.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,400.00	0.00	0.00	6,400.00	-3,063.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,500.00	0.00	0.00	6,500.00	-3,163.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,600.00	0.00	0.00	6,600.00	-3,263.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,700.00	0.00	0.00	6,700.00	-3,363.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,800.00	0.00	0.00	6,800.00	-3,463.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
6,900.00	0.00	0.00	6,900.00	-3,563.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
7,000.00	0.00	0.00	7,000.00	-3,663.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
7,100.00	0.00	0.00	7,100.00	-3,763.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
7,200.00	0.00	0.00	7,200.00	-3,863.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
7,287.00	0.00	0.00	7,287.00	-3,950.90	0.00	0.00	0.00	0.00	599,794.27	617,057.88
7,300.00	1.30	90.05	7,300.00	-3,963.90	0.00	0.15	0.15	10.00	599,794.27	617,058.03
7,350.00	6.30	90.05	7,349.87	-4,013.77	0.00	3.46	3.46	10.00	599,794.27	617,061.34
7,400.00	11.30	90.05	7,399.27	-4,063.17	-0.01	11.11	11.11	10.00	599,794.26	617,068.99
7,450.00	16.30	90.05	7,447.81	-4,111.71	-0.02	23.03	23.03	10.00	599,794.25	617,080.91
7,500.00	21.30	90.05	7,495.13	-4,159.03	-0.03	39.14	39.14	10.00	599,794.24	617,097.02
7,550.00	26.30	90.05	7,540.86	-4,204.76	-0.05	59.30	59.30	10.00	599,794.22	617,117.18
7,600.00	31.30	90.05	7,584.66	-4,248.56	-0.07	83.38	83.38	10.00	599,794.20	617,141.26

Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
 Project: Eddy County
 Site: Agate PWU "21"
 Well: #2H
 Wellbore: OH
 Design: Design #1

Local Co-ordinate Reference: Well #2H
 TVD Reference: WELL @ 3336.10usft (25' KB Correction)
 MD Reference: WELL @ 3336.10usft (25' KB Correction)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,650.00	36.30	90.05	7,626.20	-4,290.10	-0.10	111.19	111.19	10.00	599,794.17	617,169.07
7,700.00	41.30	90.05	7,665.16	-4,329.06	-0.12	142.51	142.51	10.00	599,794.15	617,200.39
7,750.00	46.30	90.05	7,701.24	-4,365.14	-0.15	177.10	177.10	10.00	599,794.12	617,234.98
7,800.00	51.30	90.05	7,734.16	-4,398.06	-0.19	214.71	214.71	10.00	599,794.08	617,272.59
7,850.00	56.30	90.05	7,763.69	-4,427.59	-0.22	255.04	255.04	10.00	599,794.05	617,312.92
7,900.00	61.30	90.05	7,789.58	-4,453.48	-0.26	297.79	297.79	10.00	599,794.01	617,355.67
7,950.00	66.30	90.05	7,811.66	-4,475.56	-0.30	342.64	342.64	10.00	599,793.97	617,400.52
8,000.00	71.29	90.05	7,829.73	-4,493.63	-0.34	389.24	389.24	10.00	599,793.93	617,447.12
8,050.00	76.29	90.05	7,843.68	-4,507.58	-0.38	437.24	437.24	10.00	599,793.89	617,495.12
8,100.00	81.29	90.05	7,853.40	-4,517.30	-0.42	486.27	486.27	10.00	599,793.85	617,544.15
8,150.00	86.29	90.05	7,858.80	-4,522.70	-0.47	535.96	535.96	10.00	599,793.80	617,593.84
8,187.07	90.00	90.05	7,860.00	-4,523.90	-0.50	573.00	573.00	10.00	599,793.77	617,630.88
8,200.00	90.00	90.05	7,860.00	-4,523.90	-0.51	585.93	585.93	0.00	599,793.76	617,643.81
8,300.00	90.00	90.05	7,860.00	-4,523.90	-0.60	685.93	685.93	0.00	599,793.67	617,743.81
8,400.00	90.00	90.05	7,860.00	-4,523.90	-0.69	785.93	785.93	0.00	599,793.58	617,843.81
8,500.00	90.00	90.05	7,860.00	-4,523.90	-0.77	885.93	885.93	0.00	599,793.50	617,943.81
8,600.00	90.00	90.05	7,860.00	-4,523.90	-0.86	985.93	985.93	0.00	599,793.41	618,043.81
8,700.00	90.00	90.05	7,860.00	-4,523.90	-0.95	1,085.93	1,085.93	0.00	599,793.32	618,143.81
8,800.00	90.00	90.05	7,860.00	-4,523.90	-1.03	1,185.93	1,185.93	0.00	599,793.24	618,243.81
8,900.00	90.00	90.05	7,860.00	-4,523.90	-1.12	1,285.93	1,285.93	0.00	599,793.15	618,343.81
9,000.00	90.00	90.05	7,860.00	-4,523.90	-1.21	1,385.93	1,385.93	0.00	599,793.06	618,443.81
9,100.00	90.00	90.05	7,860.00	-4,523.90	-1.30	1,485.93	1,485.93	0.00	599,792.97	618,543.81
9,200.00	90.00	90.05	7,860.00	-4,523.90	-1.38	1,585.93	1,585.93	0.00	599,792.89	618,643.81
9,300.00	90.00	90.05	7,860.00	-4,523.90	-1.47	1,685.93	1,685.93	0.00	599,792.80	618,743.81
9,400.00	90.00	90.05	7,860.00	-4,523.90	-1.56	1,785.93	1,785.93	0.00	599,792.71	618,843.81
9,414.07	90.00	90.05	7,860.00	-4,523.90	-1.57	1,800.00	1,800.00	0.00	599,792.70	618,857.88
9,439.62	89.49	90.04	7,860.11	-4,524.01	-1.59	1,825.55	1,825.55	2.00	599,792.68	618,883.43

Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
 Project: Eddy County
 Site: Agate PWU "21"
 Well: #2H
 Wellbore: OH
 Design: Design #1

Local Co-ordinate Reference: Well #2H
 TVD Reference: WELL @ 3336.10ustf (25' KB Correction)
 MD Reference: WELL @ 3336.10ustf (25' KB Correction)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Planned Survey

MD (ustf)	Inc (°)	Azi (°)	TVD (ustf)	TVDSS (ustf)	N/S (ustf)	E/W (ustf)	V. Sec (ustf)	DLeg (°/100ustf)	Northing (ustf)	Easting (ustf)
9,500.00	89.49	90.04	7,860.65	-4,524.55	-1.64	1,885.93	1,885.93	0.00	599,792.63	618,943.81
9,600.00	89.49	90.04	7,861.54	-4,525.44	-1.71	1,985.93	1,985.93	0.00	599,792.56	619,043.81
9,700.00	89.49	90.04	7,862.44	-4,526.34	-1.79	2,085.92	2,085.92	0.00	599,792.48	619,143.80
9,800.00	89.49	90.04	7,863.33	-4,527.23	-1.86	2,185.92	2,185.92	0.00	599,792.41	619,243.80
9,900.00	89.49	90.04	7,864.22	-4,528.12	-1.94	2,285.91	2,285.92	0.00	599,792.33	619,343.79
10,000.00	89.49	90.04	7,865.11	-4,529.01	-2.01	2,385.91	2,385.91	0.00	599,792.26	619,443.79
10,100.00	89.49	90.04	7,866.00	-4,529.90	-2.09	2,485.91	2,485.91	0.00	599,792.18	619,543.79
10,200.00	89.49	90.04	7,866.90	-4,530.80	-2.16	2,585.90	2,585.90	0.00	599,792.11	619,643.78
10,300.00	89.49	90.04	7,867.79	-4,531.69	-2.24	2,685.90	2,685.90	0.00	599,792.03	619,743.78
10,400.00	89.49	90.04	7,868.68	-4,532.58	-2.31	2,785.89	2,785.90	0.00	599,791.96	619,843.77
10,500.00	89.49	90.04	7,869.57	-4,533.47	-2.39	2,885.89	2,885.89	0.00	599,791.88	619,943.77
10,600.00	89.49	90.04	7,870.46	-4,534.36	-2.46	2,985.89	2,985.89	0.00	599,791.81	620,043.77
10,700.00	89.49	90.04	7,871.36	-4,535.26	-2.54	3,085.88	3,085.88	0.00	599,791.73	620,143.76
10,800.00	89.49	90.04	7,872.25	-4,536.15	-2.61	3,185.88	3,185.88	0.00	599,791.66	620,243.76
10,900.00	89.49	90.04	7,873.14	-4,537.04	-2.69	3,285.87	3,285.88	0.00	599,791.58	620,343.75
11,000.00	89.49	90.04	7,874.03	-4,537.93	-2.76	3,385.87	3,385.87	0.00	599,791.51	620,443.75
11,100.00	89.49	90.04	7,874.92	-4,538.82	-2.83	3,485.87	3,485.87	0.00	599,791.44	620,543.75
11,200.00	89.49	90.04	7,875.81	-4,539.71	-2.91	3,585.86	3,585.86	0.00	599,791.36	620,643.74
11,300.00	89.49	90.04	7,876.71	-4,540.61	-2.98	3,685.86	3,685.86	0.00	599,791.29	620,743.74
11,400.00	89.49	90.04	7,877.60	-4,541.50	-3.06	3,785.85	3,785.86	0.00	599,791.21	620,843.73
11,500.00	89.49	90.04	7,878.49	-4,542.39	-3.13	3,885.85	3,885.85	0.00	599,791.14	620,943.73
11,600.00	89.49	90.04	7,879.38	-4,543.28	-3.21	3,985.85	3,985.85	0.00	599,791.06	621,043.73
11,700.00	89.49	90.04	7,880.27	-4,544.17	-3.28	4,085.84	4,085.84	0.00	599,790.99	621,143.72
11,800.00	89.49	90.04	7,881.17	-4,545.07	-3.36	4,185.84	4,185.84	0.00	599,790.91	621,243.72
11,900.00	89.49	90.04	7,882.06	-4,545.96	-3.43	4,285.83	4,285.84	0.00	599,790.84	621,343.71
12,000.00	89.49	90.04	7,882.95	-4,546.85	-3.51	4,385.83	4,385.83	0.00	599,790.76	621,443.71
12,100.00	89.49	90.04	7,883.84	-4,547.74	-3.58	4,485.83	4,485.83	0.00	599,790.69	621,543.71

Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Agate PWU "21"
Well: #2H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference: WELL @ 3336.10usft (25' KB Correction)
MD Reference: WELL @ 3336.10usft (25' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Well #2H

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
12,200.00	89.49	90.04	7,884.73	-4,548.63	-3.66	4,585.82	4,585.82	0.00	599,790.61	621,643.70
12,229.87	89.49	90.04	7,885.00	-4,548.90	-3.68	4,615.69	4,615.69	0.00	599,790.59	621,673.57
PBHL(Agate#2)										

Checked By: _____

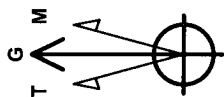
Approved By: _____

Date: _____



Project: Eddy County
Site: Agate PWU "21"
Well: #2H
Wellbore: OH
Plan: Design #1 (#2H/OH)

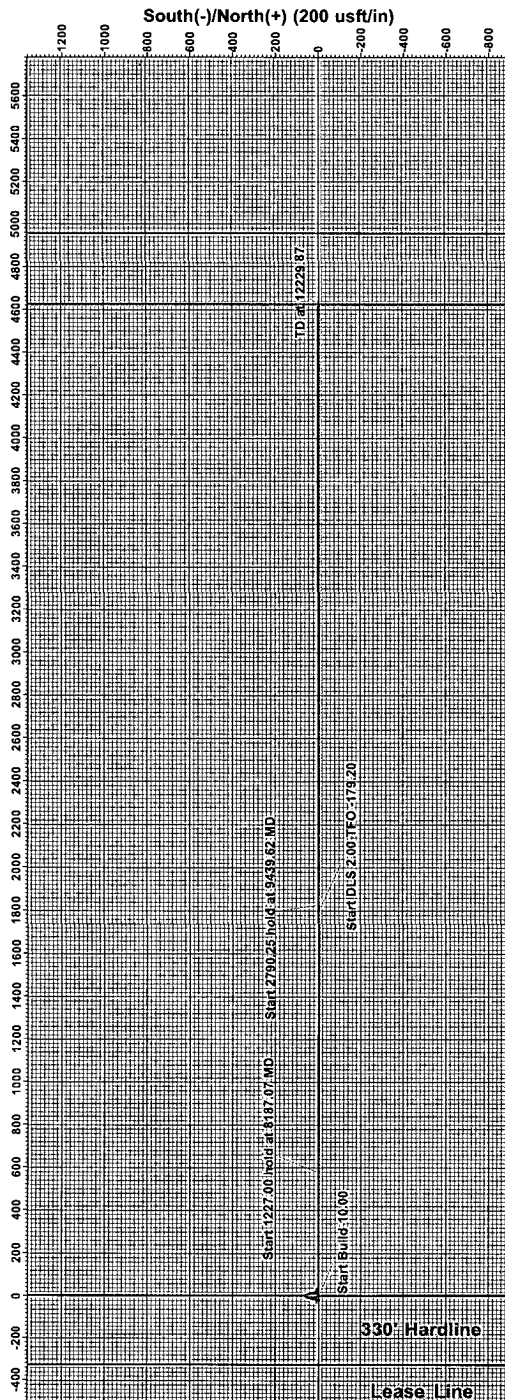
PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



Azimuths to Grid North
True North: -0.13°
Magnetic North: 7.74°
Magnetic Field
Strength: 48872.5nT
Dip Angle: 60.52°
Date: 03/29/2011
Model: IGRF200510

PATHFINDER®
A Schlumberger Company

West(-)/East(+) (200 usft/in)



SECTION DETAILS

MD	Inc	Adj	TVD	+N/S	+E/W	Diag	VFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7285.00	0.00	0.00	7287.00	0.00	0.00	0.00	0.00	0.00	0.00
8187.07	90.00	90.05	7860.00	-0.50	573.00	10.00	90.05	573.00	0.00
9414.07	90.00	90.05	7860.00	-1.57	1800.00	0.00	0.00	1800.00	0.00
9439.62	89.49	90.04	7860.11	-1.59	1825.55	2.00	-179.20	1825.55	0.00
12229.87	89.49	90.04	7885.00	-3.68	4615.69	0.00	0.00	4615.69	PBHL(Agate#2)

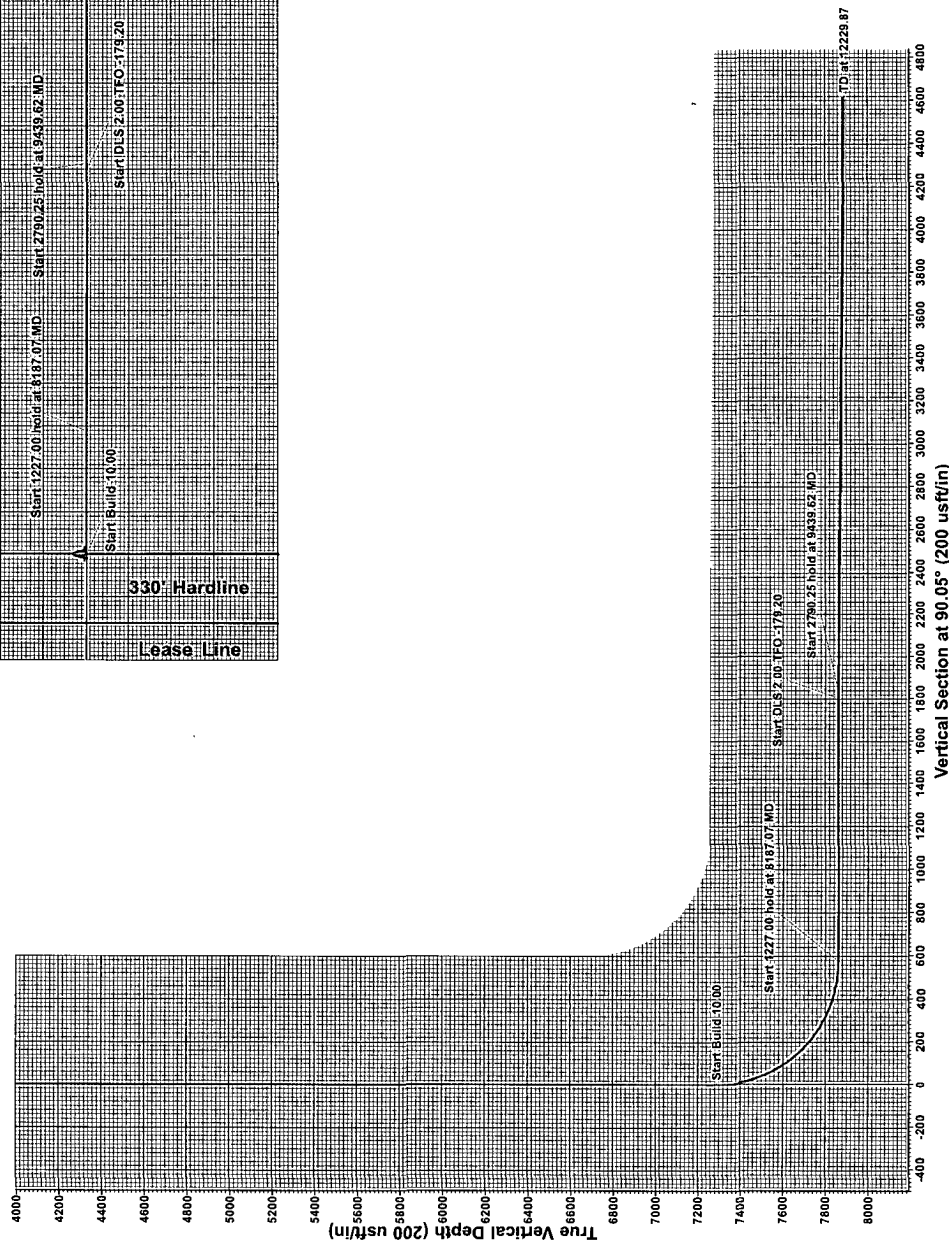
WELL DETAILS: #2H

Ground Elevation: 3311.10
RVD Elevation: 3336.10usft (25' KB Correction)
Rig Name: 25' KB Correction

+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	599794.270	617057.880	32° 38' 55.108 N	104° 5' 14.342 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
PBHL(Agate#2)	7865.00	-3.68	4615.69	599790.589	621673.570	Point



Vertical Section at 90.05° (200 usft/in)

Plan: Design #1 (#2H/OH)

Created By: Nasa Bingham Date: 9/24, March 29 2011

Checked: _____ Date: _____