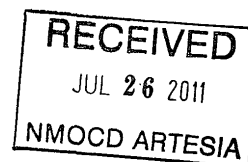




30-015-38272

Devon Energy Production Company, L.P.

Eddy County
Slider "8" Federal
#3H
OH



Survey: MWD #1

Pathfinder X & Y Survey Report

24 March, 2011





Pathfinder
Pathfinder X & Y Survey Report



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 2990.00usft (25' KB Correction)
Site:	Slider #8* Federal	MD Reference:	WELL @ 2990.00usft (25' KB Correction)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM-5000.1 Single User Db

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

Site		Slider #8* Federal				
Site Position:		Northing:	415,533.853	usft	Latitude:	32° 8' 31.016 N
From:	Map	Easting:	643,725.540	usft	Longitude:	104° 0' 9.096 W
Position Uncertainty:	0.00	Slot Radius:	13-3/16	"	Grid Convergence:	0.18 "

Well		#3H				
Well Position	+N/-S	0.00 usft	Northing:	415,493.570 usft	Latitude:	32° 8' 30.618 N
	+E/-W	0.00 usft	Easting:	643,725.529 usft	Longitude:	104° 0' 9.098 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,965.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	02/01/11	7.81	60.07	48,594

Design:		OH			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	260.60	

Survey Program		Date 03/24/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	10,475.00	MWD #1 (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Survey Report



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 2990.00usft (25' KB Correction)
Site:	Slider "8" Federal	MD Reference:	WELL @ 2990.00usft (25' KB Correction)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	2,990.00	0.00	0.00	0.00	0.00	415,493.57	643,725.53	
100.00	0.28	141.61	100.00	2,890.00	-0.19	0.15	-0.12	0.28	415,493.38	643,725.68	
200.00	0.10	134.55	200.00	2,790.00	-0.44	0.37	-0.29	0.18	415,493.13	643,725.89	
300.00	0.41	267.60	300.00	2,690.00	-0.52	0.07	0.02	0.48	415,493.05	643,725.60	
400.00	1.79	280.66	399.98	2,590.02	-0.25	-1.82	1.84	1.39	415,493.32	643,723.71	
500.00	2.19	283.02	499.92	2,490.08	0.47	-5.22	5.07	0.41	415,494.04	643,720.31	
506.00	2.19	283.02	505.91	2,484.09	0.52	-5.44	5.28	0.00	415,494.09	643,720.09	
638.00	2.81	280.89	637.79	2,352.21	1.70	-11.08	10.65	0.47	415,495.27	643,714.45	
729.00	2.11	268.76	728.70	2,261.30	2.09	-14.94	14.40	0.95	415,495.66	643,710.59	
821.00	2.02	248.64	820.64	2,169.36	1.46	-18.15	17.66	0.79	415,495.03	643,707.38	
912.00	2.90	184.91	911.57	2,078.43	-1.42	-19.84	19.80	2.97	415,492.15	643,705.69	
1,004.00	4.13	173.31	1,003.40	1,986.60	-7.03	-19.65	20.53	1.54	415,486.54	643,705.88	
1,065.00	4.40	174.54	1,064.23	1,925.77	-11.54	-19.17	20.80	0.47	415,482.03	643,706.36	
1,160.00	4.57	174.81	1,158.94	1,831.06	-18.93	-18.48	21.33	0.18	415,474.64	643,707.05	
1,254.00	4.57	177.27	1,252.64	1,737.36	-26.40	-17.96	22.04	0.21	415,467.17	643,707.56	
1,349.00	4.57	179.82	1,347.34	1,642.66	-33.97	-17.77	23.08	0.21	415,459.60	643,707.76	
1,443.00	4.57	183.68	1,441.04	1,548.96	-41.45	-18.00	24.53	0.33	415,452.12	643,707.53	
1,538.00	4.84	170.24	1,535.72	1,454.28	-49.18	-17.56	25.36	1.19	415,444.39	643,707.96	
1,632.00	4.66	160.83	1,629.40	1,360.60	-56.69	-15.64	24.69	0.85	415,436.88	643,709.89	
1,727.00	4.66	163.65	1,724.09	1,265.91	-64.04	-13.28	23.57	0.24	415,429.53	643,712.24	
1,916.00	5.10	164.17	1,912.40	1,077.60	-79.49	-8.83	21.70	0.23	415,414.08	643,716.70	
2,105.00	6.07	166.11	2,100.50	889.50	-97.27	-4.14	19.97	0.52	415,396.30	643,721.39	
2,294.00	7.83	148.97	2,288.13	701.87	-118.01	4.90	14.44	1.43	415,375.56	643,730.42	
2,483.00	8.71	140.09	2,475.17	514.83	-140.02	20.71	2.43	0.82	415,353.55	643,746.24	
2,672.00	7.47	135.43	2,662.29	327.71	-159.75	38.52	-11.91	0.74	415,333.82	643,764.05	
2,767.00	6.33	133.59	2,756.60	233.40	-167.76	46.65	-18.62	1.22	415,325.81	643,772.17	
2,829.00	6.42	132.01	2,818.21	171.79	-172.44	51.70	-22.84	0.32	415,321.13	643,777.23	

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 2990.00usft (25' KB Correction)
Site:	Slider "B" Federal	MD Reference:	WELL @ 2990.00usft (25' KB Correction)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,889.00	6.51	131.21	2,877.83	112.17	-176.92	56.75	-27.09	0.21	415,316.65	643,782.28	
2,984.00	5.01	135.26	2,972.35	17.65	-183.42	63.72	-32.91	1.63	415,310.15	643,789.25	
3,078.00	4.66	153.80	3,066.02	-76.02	-189.76	68.29	-36.39	1.70	415,303.81	643,793.82	
3,173.00	4.57	153.28	3,160.71	-170.71	-196.60	71.70	-38.63	0.10	415,296.97	643,797.23	
3,267.00	4.40	153.63	3,254.42	-264.42	-203.18	74.99	-40.79	0.18	415,290.39	643,800.51	
3,362.00	4.40	149.93	3,349.14	-359.14	-209.60	78.43	-43.14	0.30	415,283.97	643,803.96	
3,456.00	4.22	150.73	3,442.88	-452.88	-215.73	81.93	-45.59	0.20	415,277.84	643,807.46	
3,551.00	3.69	150.99	3,537.65	-547.65	-221.46	85.12	-47.81	0.56	415,272.11	643,810.65	
3,645.00	3.78	129.90	3,631.46	-641.46	-226.09	88.96	-50.84	1.46	415,267.48	643,814.49	
3,740.00	3.25	132.27	3,726.28	-736.28	-229.91	93.36	-54.55	0.58	415,263.66	643,818.89	
3,834.00	2.81	131.04	3,820.15	-830.15	-233.21	97.07	-57.68	0.47	415,260.36	643,822.60	
3,929.00	3.61	131.39	3,915.00	-925.00	-236.72	101.07	-61.05	0.84	415,256.85	643,826.60	
4,023.00	3.43	130.33	4,008.82	-1,018.82	-240.50	105.43	-64.74	0.20	415,253.07	643,830.96	
4,118.00	3.25	131.04	4,103.66	-1,113.66	-244.10	109.63	-68.29	0.19	415,249.47	643,835.16	
4,212.00	3.08	131.65	4,197.51	-1,207.51	-247.53	113.53	-71.57	0.18	415,246.04	643,839.06	
4,307.00	3.08	131.74	4,292.38	-1,302.38	-250.93	117.34	-74.78	0.01	415,242.84	643,842.87	
4,402.00	2.90	130.95	4,387.25	-1,397.25	-254.20	121.06	-77.91	0.19	415,239.37	643,846.59	
4,496.00	2.90	131.65	4,481.13	-1,491.13	-257.34	124.63	-80.93	0.04	415,236.23	643,850.16	
4,591.00	2.73	136.14	4,576.01	-1,586.01	-260.57	127.99	-83.72	0.29	415,233.00	643,853.52	
4,686.00	3.69	138.16	4,670.86	-1,680.86	-264.48	131.60	-86.64	1.02	415,229.09	643,857.13	
4,780.00	3.69	140.27	4,764.67	-1,774.67	-269.06	135.55	-89.79	0.14	415,224.51	643,861.08	
4,875.00	3.69	138.68	4,859.47	-1,869.47	-273.70	139.52	-92.95	0.11	415,219.87	643,865.05	
4,969.00	3.52	140.00	4,953.29	-1,963.29	-278.19	143.38	-96.02	0.20	415,215.38	643,868.90	
5,064.00	3.34	140.35	5,048.11	-2,058.11	-282.55	147.02	-98.89	0.19	415,211.02	643,872.55	
5,158.00	2.99	143.34	5,141.97	-2,151.97	-286.63	150.23	-101.40	0.41	415,206.94	643,875.76	
5,253.00	2.90	144.57	5,236.85	-2,246.85	-290.57	153.10	-103.59	0.12	415,203.00	643,878.63	
5,347.00	2.73	148.26	5,330.73	-2,340.73	-294.41	155.66	-105.48	0.26	415,199.16	643,881.19	



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Site:	Slider "B" Federal	MD Reference:	WELL @ 2990.00usft (25' KB Correction)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
5,442.00	2.73	151.96	5,425.62	-2,435.62	-299.33	157.91	-107.06	0.19	415,195.24	643,883.44	
5,537.00	2.37	154.15	5,520.53	-2,530.53	-302.10	159.83	-108.34	0.39	415,191.47	643,885.36	
5,631.00	2.55	151.96	5,614.44	-2,624.44	-305.69	161.66	-109.56	0.22	415,187.88	643,887.19	
5,725.00	2.46	149.85	5,708.35	-2,718.35	-309.28	163.66	-110.94	0.14	415,184.29	643,889.19	
5,820.00	2.29	145.28	5,803.27	-2,813.27	-312.61	165.76	-112.48	0.27	415,180.96	643,891.29	
5,915.00	2.46	144.05	5,898.19	-2,908.19	-315.82	168.04	-114.20	0.19	415,177.75	643,893.57	
6,009.00	2.29	146.42	5,992.11	-3,002.11	-319.01	170.26	-115.87	0.21	415,174.56	643,895.79	
6,104.00	2.37	141.85	6,087.03	-3,097.03	-322.14	172.53	-117.60	0.21	415,171.43	643,898.05	
6,198.00	2.55	150.73	6,180.95	-3,190.95	-325.49	174.75	-119.24	0.45	415,168.08	643,900.28	
6,293.00	2.55	155.03	6,275.85	-3,285.85	-329.25	176.67	-120.53	0.20	415,164.32	643,902.20	
6,344.63	2.55	148.70	6,327.43	-3,337.43	-331.27	177.76	-121.26	0.55	415,162.30	643,903.28	
6,438.63	12.57	251.18	6,420.68	-3,430.68	-336.38	169.12	-111.91	14.20	415,157.19	643,894.65	
6,470.63	18.82	252.85	6,451.47	-3,461.47	-339.03	160.88	-103.35	19.58	415,154.54	643,886.41	
6,501.63	25.32	252.75	6,480.18	-3,490.18	-342.48	149.76	-91.82	20.97	415,151.09	643,875.29	
6,534.00	29.63	255.03	6,508.90	-3,518.90	-346.60	135.42	-76.99	13.70	415,146.97	643,860.95	
6,564.63	32.27	257.72	6,535.17	-3,545.17	-350.29	120.11	-61.28	9.73	415,143.28	643,845.64	
6,597.00	34.56	259.17	6,562.18	-3,572.18	-353.86	102.64	-43.47	7.49	415,139.71	643,828.17	
6,627.63	37.72	259.35	6,586.92	-3,596.92	-357.22	84.90	-25.41	10.32	415,136.35	643,810.43	
6,660.00	40.10	258.16	6,612.10	-3,622.10	-361.19	64.96	-5.10	7.71	415,132.38	643,790.49	
6,692.00	41.68	257.90	6,636.29	-3,646.29	-365.54	44.47	15.83	4.97	415,128.03	643,770.00	
6,723.00	43.00	260.18	6,659.21	-3,669.21	-369.50	23.97	36.70	6.53	415,124.07	643,749.50	
6,753.63	43.35	261.82	6,681.55	-3,691.55	-372.78	3.27	57.65	3.84	415,120.79	643,728.80	
6,785.63	44.32	263.85	6,704.63	-3,714.63	-375.54	-18.71	79.80	5.34	415,118.03	643,706.82	
6,816.63	46.69	265.95	6,726.36	-3,736.36	-377.50	-40.73	101.84	9.04	415,116.07	643,684.79	
6,849.00	50.03	266.99	6,747.86	-3,757.86	-378.98	-64.88	125.90	10.59	415,114.59	643,660.65	
6,881.00	51.53	266.98	6,768.09	-3,778.09	-380.28	-89.63	150.54	4.69	415,113.29	643,635.90	
6,912.00	51.97	267.15	6,787.29	-3,797.29	-381.53	-113.95	174.73	1.48	415,112.04	643,611.58	



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Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1; Single User Db

Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
6,942.63	52.32	267.10	6,806.08	-3,816.08	-382.74	-138.10	198.76	1.15	415,110.83	643,587.43	
6,974.63	54.08	267.18	6,825.25	-3,835.25	-384.02	-163.69	224.21	5.50	415,109.55	643,561.84	
7,005.63	56.54	266.77	6,842.89	-3,852.89	-385.37	-189.14	249.54	8.01	415,108.20	643,536.39	
7,038.00	57.42	266.42	6,860.53	-3,870.53	-386.98	-216.24	276.54	2.87	415,106.59	643,509.29	
7,069.00	56.54	266.43	6,877.42	-3,887.42	-388.60	-242.18	302.39	2.84	415,104.97	643,483.35	
7,101.00	58.83	266.96	6,894.53	-3,904.53	-390.16	-269.17	329.28	7.29	415,103.41	643,456.35	
7,132.00	61.47	267.73	6,909.96	-3,919.96	-391.40	-296.03	355.98	8.78	415,102.17	643,429.50	
7,164.00	62.87	267.72	6,924.90	-3,934.90	-392.52	-324.31	384.06	4.38	415,101.05	643,401.22	
7,195.00	62.52	267.46	6,939.12	-3,949.12	-393.68	-351.83	411.40	1.35	415,099.89	643,373.70	
7,227.00	62.78	267.17	6,953.82	-3,963.82	-395.01	-380.22	439.63	1.14	415,098.56	643,345.31	
7,258.00	63.84	267.26	6,967.74	-3,977.74	-396.36	-407.88	467.14	3.43	415,097.21	643,317.65	
7,290.00	65.51	266.90	6,981.43	-3,991.43	-397.83	-436.77	495.88	5.32	415,095.74	643,288.76	
7,321.00	67.62	266.67	6,993.76	-4,003.76	-399.43	-465.17	524.16	6.84	415,094.14	643,260.36	
7,353.00	68.50	266.31	7,005.72	-4,015.72	-401.25	-494.79	553.68	2.94	415,092.32	643,230.74	
7,384.00	68.59	266.15	7,017.05	-4,027.05	-403.14	-523.58	582.39	0.56	415,090.43	643,201.95	
7,415.00	70.26	266.03	7,027.95	-4,037.95	-405.12	-552.53	611.28	5.40	415,088.45	643,172.99	
7,447.00	71.49	266.21	7,038.43	-4,048.43	-407.17	-582.70	641.38	3.88	415,086.40	643,142.83	
7,479.00	73.42	266.18	7,048.08	-4,058.08	-409.19	-613.14	671.74	6.03	415,084.38	643,112.39	
7,510.00	74.57	266.54	7,056.63	-4,066.63	-411.08	-642.88	701.39	3.87	415,082.49	643,082.65	
7,541.00	75.80	266.69	7,064.55	-4,074.55	-412.85	-672.80	731.19	4.00	415,080.72	643,052.73	
7,573.00	76.33	266.63	7,072.26	-4,082.26	-414.66	-703.80	762.08	1.67	415,078.91	643,021.73	
7,604.00	78.52	266.60	7,079.01	-4,089.01	-416.45	-734.00	792.16	7.07	415,077.12	642,991.53	
7,636.00	81.43	266.88	7,084.58	-4,094.58	-418.24	-765.46	823.49	9.13	415,075.33	642,960.07	
7,667.00	85.47	267.21	7,088.11	-4,098.11	-419.83	-796.21	854.09	13.08	415,073.74	642,929.32	
7,699.00	87.41	266.64	7,090.10	-4,100.10	-421.54	-828.10	885.83	6.32	415,072.03	642,897.43	
7,730.00	87.32	266.11	7,091.52	-4,101.52	-423.50	-859.01	916.64	1.73	415,070.07	642,866.52	
7,762.00	87.76	266.29	7,092.90	-4,102.90	-425.62	-890.91	948.46	1.49	415,067.95	642,834.62	



Pathfinder
Pathfinder X & Y Survey Report



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 2990.00usft (25' KB Correction)
Site:	Slider "B" Federal	MD Reference:	WELL @ 2990.00usft (25' KB Correction)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,793.00	90.66	266.56	7,093.33	-4,103.33	-427.55	-921.84	979.29	9.40	415,066.02	642,803.69
7,825.00	92.68	267.06	7,092.39	-4,102.39	-429.33	-953.77	1,011.09	6.50	415,064.24	642,771.75
7,920.00	93.12	266.94	7,087.59	-4,097.59	-434.30	-1,048.52	1,105.38	0.48	415,059.27	642,677.01
8,014.00	93.65	267.26	7,082.04	-4,092.04	-439.04	-1,142.24	1,198.61	0.66	415,054.53	642,583.29
8,109.00	93.21	267.36	7,076.35	-4,086.35	-443.49	-1,236.96	1,292.79	0.47	415,050.08	642,488.57
8,204.00	91.71	266.67	7,072.28	-4,082.28	-448.44	-1,331.74	1,387.10	1.74	415,045.13	642,393.79
8,298.00	91.54	265.92	7,069.61	-4,079.61	-454.51	-1,425.51	1,480.60	0.82	415,039.06	642,300.02
8,393.00	92.51	266.52	7,066.25	-4,076.25	-460.77	-1,520.24	1,575.08	1.20	415,032.80	642,205.29
8,487.00	90.66	265.28	7,063.65	-4,073.65	-467.49	-1,613.96	1,668.64	2.37	415,026.08	642,111.57
8,582.00	91.89	265.69	7,061.54	-4,071.54	-474.96	-1,708.64	1,763.27	1.36	415,018.61	642,016.89
8,676.00	91.89	265.44	7,058.44	-4,068.44	-482.23	-1,802.31	1,856.87	0.27	415,011.34	641,923.22
8,771.00	91.19	266.60	7,055.89	-4,065.89	-488.82	-1,897.04	1,951.40	1.43	415,004.75	641,828.49
8,865.00	91.98	266.93	7,053.29	-4,063.29	-494.12	-1,990.85	2,044.82	0.91	414,999.45	641,734.68
8,960.00	90.84	266.38	7,050.95	-4,060.95	-499.66	-2,085.66	2,139.26	1.33	414,993.91	641,639.87
9,054.00	91.71	266.09	7,048.86	-4,058.86	-505.83	-2,179.43	2,232.78	0.98	414,987.74	641,546.09
9,149.00	91.19	266.16	7,046.45	-4,056.45	-512.25	-2,274.19	2,327.31	0.55	414,981.32	641,451.34
9,243.00	91.36	266.34	7,044.36	-4,054.36	-518.40	-2,367.96	2,420.83	0.26	414,975.17	641,357.57
9,338.00	90.84	266.38	7,042.54	-4,052.54	-524.43	-2,462.75	2,515.34	0.55	414,969.14	641,262.78
9,433.00	90.48	266.05	7,041.44	-4,051.44	-530.70	-2,557.54	2,609.87	0.51	414,962.87	641,167.99
9,527.00	90.66	266.80	7,040.51	-4,050.51	-536.56	-2,651.35	2,703.38	0.82	414,957.01	641,074.18
9,622.00	91.54	266.76	7,038.68	-4,048.68	-541.90	-2,746.18	2,797.81	0.93	414,951.67	640,979.35
9,716.00	91.28	266.95	7,036.37	-4,046.37	-547.05	-2,840.01	2,891.22	0.34	414,946.52	640,885.52
9,811.00	90.13	266.53	7,035.20	-4,045.20	-552.45	-2,934.85	2,985.67	1.29	414,941.12	640,790.68
9,905.00	91.36	266.25	7,033.98	-4,043.98	-558.37	-3,028.65	3,079.18	1.34	414,935.20	640,696.88
10,000.00	91.54	266.77	7,031.58	-4,041.58	-564.15	-3,123.45	3,173.65	0.58	414,929.42	640,602.08
10,095.00	91.63	266.61	7,028.95	-4,038.95	-569.63	-3,218.25	3,268.07	0.19	414,923.94	640,507.28
10,189.00	90.84	266.61	7,026.92	-4,036.92	-575.19	-3,312.06	3,361.53	0.84	414,918.38	640,413.46



Pathfinder
Pathfinder X & Y Survey Report



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County	TVD Reference:	WELL @ 2990.00usft (25' KB Correction)
Site:	Slider "B" Federal	MD Reference:	WELL @ 2990.00usft (25' KB Correction)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)	
10,284.00	91.63	266.62	7,024.87	-4,034.87	-580.80	-3,406.88	3,455.99	0.83	414,912.77	640,318.65	
10,378.00	92.42	266.81	7,021.55	-4,031.55	-586.18	-3,500.66	3,549.39	0.86	414,907.39	640,224.87	
10,400.00	92.42	266.82	7,020.62	-4,030.62	-587.40	-3,522.61	3,571.25	0.05	414,906.17	640,202.92	
10,475.00	92.42	266.82	7,017.46	-4,027.46	-591.56	-3,597.43	3,645.74	0.00	414,902.01	640,128.10	
BHL-10475.00°MD,92.42°INC,266.82°AZI,7017.46°TVD,3645.74°VS,-591.56°N,-3597.43°E											

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
10,475.00	7,017.46	-591.56	-3,597.43	BHL-10475.00°MD,92.42°INC,266.82°AZI,7017.46°TVD,3645.74°VS,-591.56°N

Checked By: _____	Approved By: _____	Date: _____
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Project: Eddy County
Site: Slider "8" Federal
Well: #3H
Wellbore: OH
Plan: Plan #4 (#3H/OH)

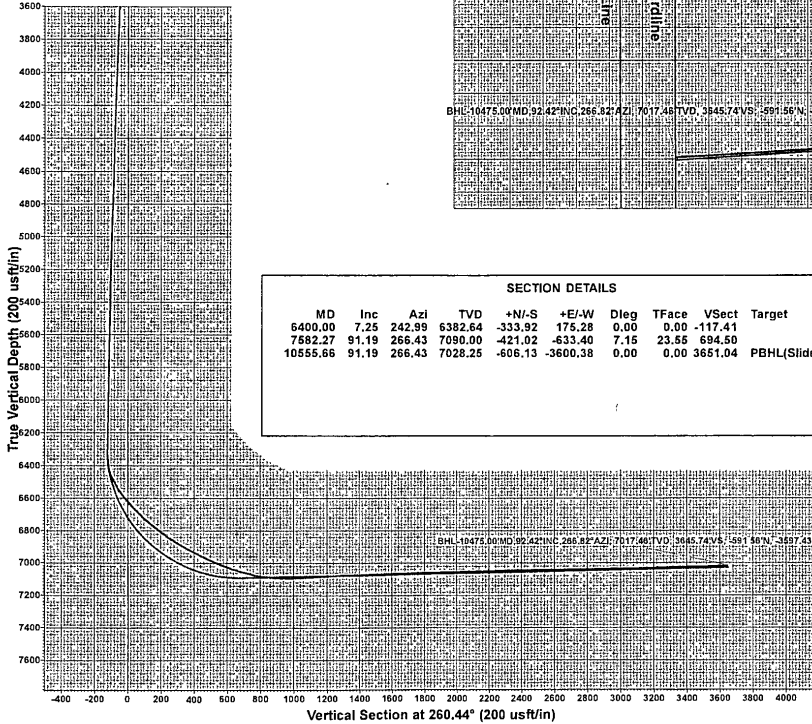


Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.63°

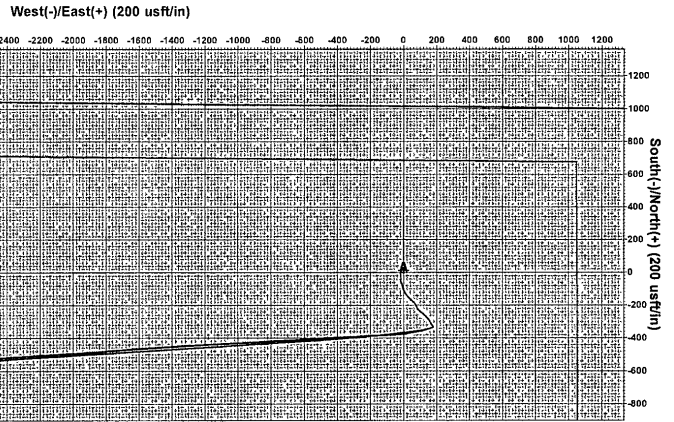
Magnetic Field
Strength: 48594.3snT
Dip Angle: 60.07°
Date: 02/01/2011
Model: IGRF200510

PATHFINDER
A Schlumberger Company

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



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Target
6400.00	7.25	242.99	6382.64	-333.92	175.28	0.00	0.00	-117.41	
7582.27	91.19	266.43	7090.00	-421.02	-633.40	7.15	23.55	694.50	
10555.66	91.19	266.43	7028.25	-606.13	-3600.38	0.00	0.00	3651.04	PBHL(Slider #3)



WELL DETAILS: #3H						
Ground Elevation:: 2965.00						
RKB Elevation: WELL @ 2990.00usft (25' KB Correction)						
Rig Name: 25' KB Correction						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	415493.570	643725.529	32° 8' 30.618 N	104° 0' 9.098 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Slider #3)	7090.00	-596.62	-3601.98	414896.950	640123.552	Point

Plan: Plan #4 (#3H/OH)			
Created By: Nate Bingham	Date: 9 42, March 24 2011		
Checked: _____	Date: _____		