



A Schlumberger Company

30015 46333

Devon Energy, Inc.

Eddy County (NAD83)

Bellatrix "28" Federal Com

#3H

OH

Design: OH

Pathfinder X&Y Report

31 May, 2013

The word "devon" in a lowercase, serif font. Above the letters "on" are three horizontal bars of increasing length, stacked vertically.

devon



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Eddy County (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Bellatrix "28" Federal Com		
Site Position:		Northing:	595,443.610 usft
From:	Map	Easting:	679,232.620 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.636124
		Longitude:	-103.885375
		Grid Convergence:	0.24 °

Well	#3H					
Well Position	+N/-S	0.0 usft	Northing:	592,647.160 usft	Latitude:	32.628431
	+E/-W	0.0 usft	Easting:	679,842.640 usft	Longitude:	-103.883432
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,482.3 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/18/2013	7.52	60.49	48,676

Design		OH			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	81.68	



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Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program	Date 5/31/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,500.0	Gyro #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
8,500.0	14,244.0	MWD #2 (OH)	MWD	MWD - Standard

Survey											
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec. (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,508.3	0.0	0.0	0.0	0.00	592,647.16	679,842.64	
100.0	0.76	300.91	100.0	-3,408.3	0.3	-0.6	-0.5	0.76	592,647.50	679,842.07	
200.0	0.99	305.79	200.0	-3,308.3	1.2	-1.8	-1.6	0.24	592,648.35	679,840.80	
300.0	1.86	307.29	300.0	-3,208.3	2.7	-3.8	-3.4	0.87	592,649.84	679,838.81	
400.0	2.59	299.00	399.9	-3,108.4	4.8	-7.1	-6.3	0.80	592,651.91	679,835.54	
500.0	3.49	292.09	499.7	-3,008.6	7.0	-11.9	-10.8	0.97	592,654.15	679,830.75	
600.0	4.35	293.16	599.5	-2,908.8	9.6	-18.2	-16.6	0.86	592,656.79	679,824.44	
612.0	4.25	293.38	611.5	-2,896.8	10.0	-19.0	-17.4	0.84	592,657.15	679,823.61	
26"											
700.0	3.52	295.34	699.3	-2,809.0	12.4	-24.5	-22.4	0.84	592,659.60	679,818.18	
800.0	3.25	303.11	799.1	-2,709.2	15.3	-29.6	-27.1	0.53	592,662.46	679,813.03	
900.0	2.36	304.88	899.0	-2,609.3	18.0	-33.7	-30.7	0.89	592,665.18	679,808.96	
1,000.0	2.44	306.64	998.9	-2,509.4	20.5	-37.1	-33.7	0.11	592,667.63	679,805.57	
1,100.0	1.86	307.72	1,098.8	-2,409.5	22.7	-40.1	-36.4	0.58	592,669.89	679,802.58	
1,200.0	1.87	308.60	1,198.8	-2,309.5	24.7	-42.6	-38.6	0.03	592,671.91	679,800.02	
1,300.0	1.53	312.42	1,298.7	-2,209.6	26.7	-44.9	-40.6	0.36	592,673.82	679,797.76	
1,400.0	1.02	328.39	1,398.7	-2,109.6	28.3	-46.3	-41.7	0.62	592,675.48	679,796.30	
1,500.0	0.80	338.12	1,498.7	-2,009.6	29.7	-47.1	-42.3	0.27	592,676.89	679,795.58	
1,600.0	0.81	343.89	1,598.7	-1,909.6	31.1	-47.5	-42.5	0.08	592,678.22	679,795.12	
1,700.0	0.89	30.89	1,698.7	-1,809.6	32.4	-47.3	-42.1	0.68	592,679.56	679,795.32	
1,800.0	1.21	33.25	1,798.6	-1,709.7	34.0	-46.3	-40.9	0.32	592,681.11	679,796.30	



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Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
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 (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
1,900.0	1.58	41.72	1,898.6	-1,609.7	35.9	-44.8	-39.2	0.42	592,683.02	679,797.80	
2,000.0	1.13	46.85	1,998.6	-1,509.7	37.6	-43.2	-37.3	0.47	592,684.73	679,799.43	
2,100.0	0.64	55.93	2,098.6	-1,409.7	38.6	-42.0	-36.0	0.51	592,685.71	679,800.62	
2,200.0	0.65	60.34	2,198.6	-1,309.7	39.1	-41.1	-35.0	0.05	592,686.31	679,801.57	
2,300.0	0.27	77.16	2,298.6	-1,209.7	39.5	-40.3	-34.2	0.40	592,686.64	679,802.29	
2,400.0	0.38	92.87	2,398.6	-1,109.7	39.5	-39.8	-33.6	0.14	592,686.68	679,802.86	
2,408.0	0.37	94.53	2,406.6	-1,101.7	39.5	-39.7	-33.6	0.21	592,686.67	679,802.91	
17 1/2"											
2,500.0	0.26	123.76	2,498.6	-1,009.7	39.4	-39.3	-33.2	0.21	592,686.53	679,803.38	
2,600.0	0.33	120.85	2,598.6	-909.7	39.1	-38.8	-32.8	0.07	592,686.26	679,803.81	
2,700.0	0.51	169.32	2,698.6	-809.7	38.5	-38.5	-32.5	0.38	592,685.67	679,804.14	
2,800.0	0.75	197.13	2,798.5	-709.8	37.5	-38.6	-32.8	0.38	592,684.61	679,804.03	
2,900.0	0.62	204.38	2,898.5	-609.8	36.3	-39.0	-33.4	0.16	592,683.49	679,803.61	
3,000.0	1.34	198.47	2,998.5	-509.8	34.7	-39.6	-34.2	0.73	592,681.89	679,803.02	
3,100.0	1.24	189.04	3,098.5	-409.8	32.6	-40.2	-35.0	0.23	592,679.71	679,802.48	
3,200.0	0.80	185.50	3,198.5	-309.8	30.8	-40.4	-35.5	0.44	592,677.95	679,802.24	
3,300.0	0.58	215.00	3,298.5	-209.8	29.7	-40.8	-36.0	0.41	592,676.84	679,801.89	
3,400.0	0.16	269.42	3,398.5	-109.8	29.3	-41.2	-36.5	0.50	592,676.42	679,801.46	
3,500.0	0.17	270.35	3,498.5	-9.8	29.3	-41.5	-36.8	0.01	592,676.42	679,801.17	
3,600.0	0.62	300.13	3,598.5	90.2	29.5	-42.1	-37.4	0.48	592,676.70	679,800.55	
3,700.0	0.75	303.37	3,698.5	190.2	30.2	-43.1	-38.3	0.14	592,677.33	679,799.54	
3,800.0	0.75	306.08	3,798.5	290.2	30.9	-44.2	-39.2	0.04	592,678.07	679,798.46	
3,900.0	0.64	326.63	3,898.4	390.1	31.8	-45.0	-39.9	0.27	592,678.93	679,797.63	
4,000.0	0.31	319.88	3,998.4	490.1	32.4	-45.5	-40.3	0.33	592,679.60	679,797.14	
4,100.0	0.49	310.32	4,098.4	590.1	32.9	-46.0	-40.7	0.19	592,680.08	679,796.64	
4,200.0	0.62	313.38	4,198.4	690.1	33.6	-46.7	-41.4	0.13	592,680.73	679,795.92	



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Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
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 (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
4,263.0	0.44	314.59	4,261.4	753.1	34.0	-47.1	-41.7	0.28	592,681.14	679,795.50	
12 1/4"											
4,300.0	0.34	315.89	4,298.4	790.1	34.2	-47.3	-41.9	0.28	592,681.31	679,795.33	
4,400.0	0.57	305.98	4,398.4	890.1	34.7	-47.9	-42.4	0.24	592,681.82	679,794.72	
4,500.0	0.85	300.32	4,498.4	990.1	35.3	-49.0	-43.3	0.29	592,682.49	679,793.67	
4,600.0	0.84	296.61	4,598.4	1,090.1	36.0	-50.3	-44.5	0.06	592,683.19	679,792.38	
4,700.0	0.94	296.44	4,698.4	1,190.1	36.7	-51.7	-45.8	0.10	592,683.88	679,790.99	
4,800.0	0.95	294.02	4,798.4	1,290.1	37.4	-53.1	-47.2	0.04	592,684.59	679,789.50	
4,900.0	0.76	286.43	4,898.4	1,390.1	38.0	-54.5	-48.5	0.22	592,685.11	679,788.10	
5,000.0	0.82	301.69	4,998.4	1,490.1	38.5	-55.8	-49.6	0.22	592,685.67	679,786.86	
5,100.0	0.54	301.05	5,098.4	1,590.1	39.1	-56.8	-50.5	0.28	592,686.29	679,785.85	
5,200.0	0.45	281.62	5,198.4	1,690.1	39.5	-57.6	-51.3	0.19	592,686.62	679,785.06	
5,300.0	0.57	287.56	5,298.4	1,790.1	39.7	-58.4	-52.1	0.13	592,686.84	679,784.20	
5,400.0	0.41	289.13	5,398.3	1,890.0	40.0	-59.3	-52.8	0.16	592,687.11	679,783.39	
5,500.0	0.43	291.08	5,498.3	1,990.0	40.2	-59.9	-53.5	0.02	592,687.36	679,782.70	
5,600.0	0.69	293.40	5,598.3	2,090.0	40.6	-60.8	-54.3	0.26	592,687.74	679,781.79	
5,700.0	0.58	286.43	5,698.3	2,190.0	41.0	-61.9	-55.3	0.13	592,688.12	679,780.76	
5,800.0	0.53	288.03	5,798.3	2,290.0	41.2	-62.8	-56.2	0.05	592,688.41	679,779.83	
5,900.0	0.56	292.50	5,898.3	2,390.0	41.6	-63.7	-57.0	0.05	592,688.74	679,778.94	
6,000.0	0.39	303.58	5,998.3	2,490.0	42.0	-64.4	-57.7	0.19	592,689.11	679,778.21	
6,100.0	0.41	320.88	6,098.3	2,590.0	42.4	-64.9	-58.1	0.12	592,689.58	679,777.70	
6,200.0	0.54	319.66	6,198.3	2,690.0	43.1	-65.5	-58.6	0.13	592,690.21	679,777.16	
6,300.0	0.78	321.74	6,298.3	2,790.0	43.9	-66.2	-59.1	0.24	592,691.11	679,776.44	
6,400.0	0.81	320.38	6,398.3	2,890.0	45.0	-67.1	-59.9	0.04	592,692.19	679,775.57	
6,500.0	0.47	335.94	6,498.3	2,990.0	45.9	-67.7	-60.3	0.38	592,693.11	679,774.95	
6,600.0	0.66	334.92	6,598.3	3,090.0	46.8	-68.1	-60.6	0.19	592,694.00	679,774.54	
6,700.0	0.67	335.38	6,698.3	3,190.0	47.9	-68.6	-60.9	0.01	592,695.06	679,774.05	



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Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
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 (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
6,800.0	0.80	333.26	6,798.3	3,290.0	49.1	-69.1	-61.3	0.13	592,696.21	679,773.49	
6,900.0	0.92	345.34	6,898.3	3,390.0	50.5	-69.7	-61.6	0.22	592,697.61	679,772.97	
7,000.0	0.78	353.26	6,998.3	3,490.0	51.9	-69.9	-61.7	0.18	592,699.06	679,772.69	
7,100.0	0.88	10.04	7,098.2	3,589.9	53.3	-69.9	-61.4	0.26	592,700.50	679,772.75	
7,200.0	0.78	3.41	7,198.2	3,689.9	54.8	-69.7	-61.1	0.14	592,701.93	679,772.92	
7,300.0	0.79	350.92	7,298.2	3,789.9	56.1	-69.8	-60.9	0.17	592,703.29	679,772.85	
7,400.0	0.72	342.51	7,398.2	3,889.9	57.4	-70.1	-61.0	0.13	592,704.57	679,772.55	
7,500.0	0.28	310.78	7,498.2	3,989.9	58.2	-70.5	-61.3	0.50	592,705.33	679,772.18	
7,600.0	0.21	292.10	7,598.2	4,089.9	58.4	-70.8	-61.6	0.11	592,705.56	679,771.82	
7,700.0	0.31	262.57	7,698.2	4,189.9	58.4	-71.3	-62.0	0.16	592,705.59	679,771.39	
7,800.0	0.22	214.69	7,798.2	4,289.9	58.2	-71.6	-62.4	0.23	592,705.40	679,771.01	
7,900.0	0.34	132.72	7,898.2	4,389.9	57.9	-71.5	-62.4	0.38	592,705.04	679,771.12	
8,000.0	0.92	105.09	7,998.2	4,489.9	57.5	-70.5	-61.5	0.64	592,704.63	679,772.11	
8,100.0	0.73	106.36	8,098.2	4,589.9	57.1	-69.1	-60.2	0.19	592,704.24	679,773.50	
8,200.0	0.55	118.85	8,198.2	4,689.9	56.7	-68.1	-59.2	0.23	592,703.83	679,774.53	
8,300.0	0.46	128.45	8,298.2	4,789.9	56.2	-67.4	-58.5	0.12	592,703.35	679,775.26	
8,400.0	0.40	125.43	8,398.2	4,889.9	55.7	-66.8	-58.0	0.06	592,702.90	679,775.86	
8,500.0	0.46	108.45	8,498.2	4,989.9	55.4	-66.1	-57.4	0.14	592,702.57	679,776.53	
8,578.0	6.04	44.79	8,576.0	5,067.7	58.2	-62.9	-53.8	7.50	592,705.38	679,779.72	
8,609.0	7.12	46.61	8,606.8	5,098.5	60.7	-60.4	-51.0	3.55	592,707.86	679,782.26	
8,641.0	7.56	33.56	8,638.6	5,130.3	63.8	-57.8	-47.9	5.38	592,710.98	679,784.87	
8,672.0	9.41	44.94	8,669.2	5,160.9	67.3	-54.9	-44.5	8.03	592,714.47	679,787.79	
8,703.0	11.87	50.65	8,699.7	5,191.4	71.1	-50.6	-39.8	8.62	592,718.29	679,792.04	
8,735.0	14.68	52.47	8,730.8	5,222.5	75.7	-44.8	-33.4	8.88	592,722.85	679,797.80	
8,766.0	17.76	50.15	8,760.6	5,252.3	81.1	-38.1	-26.0	10.15	592,728.27	679,804.55	
8,798.0	20.66	50.06	8,790.8	5,282.5	87.9	-30.0	-17.0	9.06	592,735.02	679,812.63	
8,829.0	23.65	50.38	8,819.5	5,311.2	95.3	-21.0	-7.0	9.65	592,742.50	679,821.61	



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Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
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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 (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,861.0	26.91	50.66	8,848.4	5,340.1	104.0	-10.5	4.7	10.19	592,751.19	679,832.16	
8,892.0	29.81	50.60	8,875.7	5,367.4	113.4	0.9	17.3	9.36	592,760.53	679,843.54	
8,924.0	33.68	50.58	8,902.9	5,394.6	124.1	13.9	31.7	12.09	592,771.21	679,856.55	
8,950.0	37.07	50.63	8,924.1	5,415.8	133.6	25.5	44.6	13.03	592,780.76	679,868.18	
8 3/4"											
8,955.0	37.72	50.64	8,928.1	5,419.8	135.5	27.9	47.2	13.03	592,782.69	679,870.53	
8,987.0	41.86	50.13	8,952.7	5,444.4	148.6	43.7	64.7	12.98	592,795.75	679,886.30	
9,018.0	45.29	51.03	8,975.1	5,466.8	162.2	60.2	83.0	11.24	592,809.31	679,902.80	
9,050.0	48.54	52.76	8,997.0	5,488.7	176.6	78.6	103.3	10.90	592,823.72	679,921.20	
9,081.0	52.32	52.60	9,016.7	5,508.4	191.0	97.6	124.2	12.20	592,838.21	679,940.20	
9,112.0	56.72	52.94	9,034.7	5,526.4	206.3	117.7	146.3	14.22	592,853.48	679,960.29	
9,144.0	60.59	51.97	9,051.4	5,543.1	223.0	139.3	170.1	12.37	592,870.13	679,981.95	
9,175.0	65.16	51.90	9,065.5	5,557.2	240.0	161.0	194.1	14.74	592,887.14	680,003.67	
9,207.0	69.64	52.50	9,077.8	5,569.5	258.1	184.4	219.8	14.11	592,905.24	680,027.01	
9,238.0	74.22	52.79	9,087.4	5,579.1	276.0	207.8	245.5	14.80	592,923.11	680,050.43	
9,270.0	79.67	52.76	9,094.6	5,586.3	294.8	232.6	272.8	17.03	592,941.96	680,075.24	
9,321.0	86.61	52.61	9,100.7	5,592.4	325.5	272.8	317.1	13.61	592,972.64	680,115.49	
9,415.0	89.43	55.39	9,104.0	5,595.7	380.7	348.8	400.2	4.21	593,027.85	680,191.48	
9,475.4	88.86	57.07	9,104.9	5,596.6	414.3	399.1	454.8	2.94	593,061.44	680,241.72	
EOC (Bellatrix #3H)											
9,509.0	88.54	58.01	9,105.6	5,597.3	432.3	427.4	485.4	2.94	593,079.44	680,270.02	
9,603.0	88.55	60.37	9,108.0	5,599.7	480.4	508.1	572.3	2.51	593,127.57	680,350.72	
9,698.0	89.34	64.23	9,109.8	5,601.5	524.6	592.2	661.8	4.15	593,171.71	680,434.80	
9,793.0	90.13	66.75	9,110.2	5,601.9	564.0	678.6	753.1	2.78	593,211.12	680,521.24	
9,887.0	91.28	70.12	9,109.1	5,600.8	598.5	766.0	844.5	3.79	593,245.66	680,608.64	
9,981.0	91.36	73.02	9,106.9	5,598.6	628.2	855.1	937.0	3.09	593,275.37	680,697.78	
10,076.0	90.75	75.61	9,105.1	5,596.8	653.9	946.6	1,031.2	2.80	593,301.04	680,789.22	



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Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Corn	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
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 (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,171.0	90.31	79.63	9,104.3	5,596.0	674.2	1,039.3	1,126.0	4.26	593,321.41	680,881.99
10,265.0	90.13	82.49	9,103.9	5,595.6	688.9	1,132.2	1,220.0	3.05	593,336.01	680,974.83
10,360.0	89.96	84.08	9,103.8	5,595.5	700.0	1,226.5	1,314.9	1.68	593,347.12	681,069.18
10,454.0	89.43	85.94	9,104.3	5,596.0	708.1	1,320.2	1,408.8	2.06	593,355.30	681,162.82
10,549.0	88.46	85.59	9,106.1	5,597.8	715.2	1,414.9	1,503.5	1.09	593,362.31	681,257.54
10,644.0	89.43	88.31	9,107.8	5,599.5	720.2	1,509.7	1,598.1	3.04	593,367.36	681,352.38
10,739.0	89.25	88.44	9,108.9	5,600.6	722.9	1,604.7	1,692.4	0.23	593,370.06	681,447.34
10,833.0	89.08	88.36	9,110.3	5,602.0	725.5	1,698.6	1,785.8	0.20	593,372.68	681,541.29
10,928.0	88.99	87.78	9,111.9	5,603.6	728.7	1,793.6	1,880.2	0.62	593,375.88	681,636.22
11,022.0	89.43	89.21	9,113.2	5,604.9	731.2	1,887.5	1,973.5	1.59	593,378.35	681,730.18
11,117.0	89.52	90.04	9,114.1	5,605.8	731.8	1,982.5	2,067.6	0.88	593,378.97	681,825.17
11,211.0	90.57	89.92	9,114.0	5,605.7	731.8	2,076.5	2,160.6	1.12	593,379.00	681,919.17
11,305.0	91.19	90.07	9,112.5	5,604.2	731.9	2,170.5	2,253.6	0.68	593,379.01	682,013.16
11,400.0	91.28	89.55	9,110.5	5,602.2	732.2	2,265.5	2,347.6	0.56	593,379.33	682,108.13
11,494.0	91.36	89.08	9,108.3	5,600.0	733.3	2,359.5	2,440.7	0.51	593,380.45	682,202.10
11,589.0	90.48	90.21	9,106.8	5,598.5	733.9	2,454.4	2,534.8	1.51	593,381.04	682,297.09
11,683.0	91.10	90.42	9,105.5	5,597.2	733.4	2,548.4	2,627.7	0.70	593,380.52	682,391.08
11,778.0	91.28	90.71	9,103.5	5,595.2	732.4	2,643.4	2,721.6	0.36	593,379.59	682,486.05
11,873.0	89.34	89.84	9,103.0	5,594.7	732.0	2,738.4	2,815.5	2.24	593,379.13	682,581.04
11,967.0	89.78	89.66	9,103.7	5,595.4	732.4	2,832.4	2,908.6	0.51	593,379.54	682,675.04
12,062.0	90.31	89.88	9,103.7	5,595.4	732.8	2,927.4	3,002.6	0.60	593,379.92	682,770.04
12,156.0	90.84	89.88	9,102.7	5,594.4	733.0	3,021.4	3,095.7	0.56	593,380.12	682,864.03
12,251.0	89.52	89.59	9,102.4	5,594.1	733.4	3,116.4	3,189.7	1.42	593,380.56	682,959.03
12,345.0	89.78	89.03	9,103.0	5,594.7	734.5	3,210.4	3,282.9	0.66	593,381.69	683,053.02
12,440.0	90.31	88.57	9,102.9	5,594.6	736.5	3,305.4	3,377.1	0.74	593,383.68	683,148.00
12,535.0	89.16	88.67	9,103.4	5,595.1	738.8	3,400.3	3,471.4	1.22	593,385.97	683,242.97



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Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
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 (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
12,557.9	89.12	88.77	9,103.7	5,595.4	739.3	3,423.3	3,494.2	0.46	593,386.48	683,265.89	
Mid-PT (Bellatrix #3H)											
12,629.0	88.99	89.07	9,104.9	5,596.6	740.7	3,494.3	3,564.7	0.46	593,387.82	683,336.94	
12,724.0	90.04	88.95	9,105.7	5,597.4	742.3	3,589.3	3,658.9	1.11	593,389.46	683,431.92	
12,819.0	90.92	88.60	9,104.9	5,596.6	744.3	3,684.3	3,753.2	1.00	593,391.49	683,526.89	
12,904.0	90.92	89.29	9,103.5	5,595.2	745.9	3,769.2	3,837.5	0.81	593,393.06	683,611.87	
12,998.0	91.10	90.62	9,101.9	5,593.6	746.0	3,863.2	3,930.5	1.43	593,393.13	683,705.85	
13,093.0	91.36	90.39	9,099.8	5,591.5	745.1	3,958.2	4,024.3	0.37	593,392.29	683,800.82	
13,187.0	91.45	89.72	9,097.5	5,589.2	745.0	4,052.2	4,117.3	0.72	593,392.20	683,894.79	
13,281.0	92.33	91.03	9,094.4	5,586.1	744.4	4,146.1	4,210.2	1.68	593,391.59	683,988.74	
13,375.0	93.03	90.91	9,090.0	5,581.7	742.8	4,240.0	4,302.8	0.76	593,390.00	684,082.62	
13,470.0	92.42	90.97	9,085.5	5,577.2	741.3	4,334.9	4,396.5	0.65	593,388.44	684,177.50	
13,564.0	92.86	90.24	9,081.2	5,572.9	740.3	4,428.8	4,489.3	0.91	593,387.45	684,271.40	
13,658.0	93.12	90.46	9,076.3	5,568.0	739.7	4,522.6	4,582.1	0.36	593,386.88	684,365.27	
13,752.0	93.39	89.12	9,070.9	5,562.6	740.1	4,616.5	4,675.0	1.45	593,387.22	684,459.11	
13,847.0	92.42	89.66	9,066.1	5,557.8	741.1	4,711.3	4,769.0	1.17	593,388.23	684,553.98	
13,941.0	91.28	89.82	9,063.1	5,554.8	741.5	4,805.3	4,862.0	1.22	593,388.66	684,647.93	
14,036.0	91.54	89.28	9,060.7	5,552.4	742.2	4,900.3	4,956.1	0.63	593,389.40	684,742.90	
14,130.0	92.42	88.81	9,057.5	5,549.2	743.8	4,994.2	5,049.3	1.06	593,390.97	684,836.83	
14,165.0	92.86	88.47	9,055.9	5,547.6	744.6	5,029.1	5,084.0	1.59	593,391.80	684,871.78	
Final Survey											
14,244.0	92.86	88.47	9,051.9	5,543.6	746.7	5,108.0	5,162.3	0.00	593,393.91	684,950.65	
Projection To Bit - PBHL (Bellatrix #3H)											



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Pathfinder
Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
612.0	611.5	26"	26	26	
2,408.0	2,406.6	17 1/2"	17-1/2	17-1/2	
4,263.0	4,261.4	12 1/4"	12-1/4	12-1/4	
8,950.0	8,924.1	8 3/4"	8-3/4	8-3/4	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
14,165.0	9,055.9	744.6	5,029.1	Final Survey	
14,244.0	9,051.9	746.7	5,108.0	Projection To Bit	

Checked By: _____ Approved By: _____ Date: _____

devon

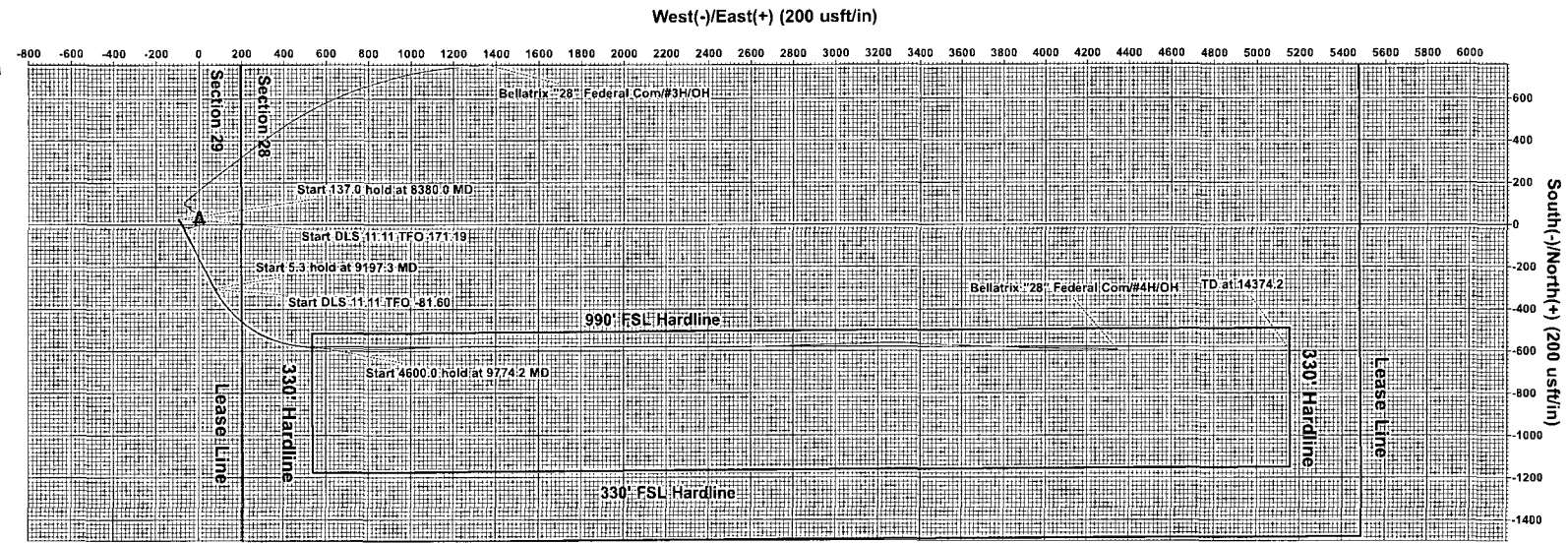
RECEIVED
OCT 04 2013
NMCOO ARTESIA

PROJECT DETAILS: Eddy County (NAD83)
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

PATHFINDER

A Schlumberger Company

Project: Eddy County (NAD83)
Site: Bellatrix "28" Federal Com
Well: #4H
Wellbore: OH
Plan: Plan #5 (#4H/OH)



WELL DETAILS: #4H

Ground Elevation: 3482.3
RK8 Elevation: KB = 26 @ 3508.3usft (H&P 300)
Rig Name: H&P 300

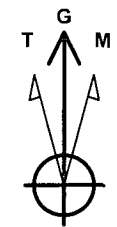
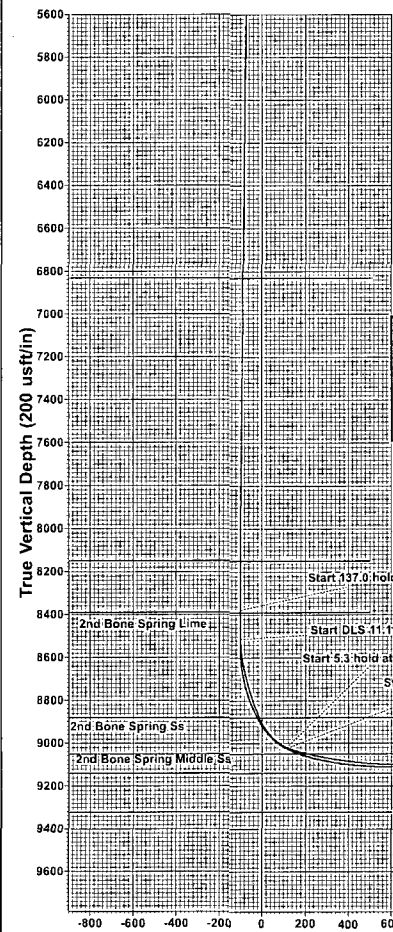
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	592597.200	679842.940	32.628293	-103.883431	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	8380.0	1.40	341.17	8377.5	25.9	-96.2	0.00	0.00	-98.5	
2	8517.0	1.40	341.17	8514.4	29.0	-97.3	0.00	0.00	-99.9	
3	9197.3	74.19	152.30	9023.1	-302.4	78.4	11.11	171.19	111.7	
4	9202.5	74.19	152.30	9024.5	-306.9	80.8	0.00	0.00	114.5	
5	9774.2	90.25	90.00	9110.1	-578.8	542.7	11.11	-81.60	604.1	
6	14374.2	90.25	90.00	9090.0	-578.8	5142.7	0.00	0.00	5175.2	PBHL (Bellatrix #4H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Tenneco-Federal (Offset P&A)	0.0	-820.7	4824.3	591776.490	684667.271	Circle (Radius: 150.0)
Mid-Pt (Bellatrix #4H)	9090.0	-560.1	3254.1	592037.054	683097.078	Point
PBHL (Bellatrix #4H)	9090.0	-578.8	5142.7	592018.390	684985.640	Point



Azimuths to Grid North
True North: -0.24°
Magnetic North: 7.28°

Magnetic Field
Strength: 48679.0nT
Dip Angle: 60.49°
Date: 5/7/2013
Model: IGRF200510

Plan: Plan #5 (#4H/OH)
Created By: Michael Trout Date: 8/29, July 03 2013
Checked: _____ Date: _____

Small text block containing company information and a logo.