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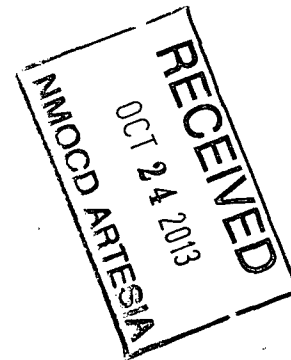
Devon Energy, Inc.

Eddy County (NAD83)

Bellatrix "28" Federal Com

#3H

OH



Design: OH

Pathfinder X&Y Report

31 May, 2013

The logo for Devon Energy, featuring the word "devon" in a lowercase, sans-serif font. Above the "v" and "o" are three horizontal bars of increasing length, creating a stylized "D" shape.

devon

15.40333



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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

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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devon

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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 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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Pathfinder
Pathfinder X&Y Report

devon

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)	
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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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

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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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	



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

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	



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

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)											



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

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		Comment
		+N/-S (usft)	+E/-W (usft)	
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: _____
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Stimulations Summary

District PERMIAN BASIN		County EDDY		Field Name HACKBERRY		Project Group DELAWARE BASIN			State/Province NM												
Surface Legal Location SEC29 T19S R31E		API/UWI 3001540333		Latitude (") 32° 37' 42.351" N		Longitude (") 103° 53' 0.354" W		Ground Elev... 3,482.30		KB - GL (ft) 26.20		Orig KB Elev (ft) 3,508.50		Tubing Head Elevation (ft)							
SLICKWATER FRAC 7/29/2013 08:27 BONE SPRING 2ND ST01 13,798.0 ftKB 14,171.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5933.45				2,222.0				2,503.0		6,778.0				8,016.0		81		1.65	
SLICKWATER FRAC 7/30/2013 00:55 BONE SPRING 2ND ST01 13,335.0 ftKB 13,708.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5676.70				0.0				2,730.0		4,787.0				5,570.0		80		1.64	
SLICKWATER FRAC 7/30/2013 04:59 BONE SPRING 2ND ST01 12,872.0 ftKB 13,247.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5611.36				0.0				2,505.0		4,149.0				4,604.0		81		1.71	
SLICKWATER FRAC 7/30/2013 10:00 BONE SPRING 2ND ST01 12,414.0 ftKB 12,782.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5601.78				0.0				2,441.0		4,580.0				5,432.0		81		1.65	
SLICKWATER FRAC 7/31/2013 00:49 BONE SPRING 2ND ST01 11,946.0 ftKB 12,313.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5640.15				0.0				2,377.0		3,783.0				4,238.0		80		1.55	
SLICKWATER FRAC 7/31/2013 04:09 BONE SPRING 2ND ST01 11,484.0 ftKB 11,855.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5652.33				0.0				2,400.0		3,955.0				4,579.0		81		1.56	
SLICKWATER FRAC 7/31/2013 19:25 BONE SPRING 2ND ST01 11,019.0 ftKB 11,395.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5599.57				0.0				2,444.0		3,959.0				4,794.0		81		1.49	
SLICKWATER FRAC 8/2/2013 05:52 BONE SPRING 2ND ST01 10,556.0 ftKB 10,929.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5640.63				0.0				2,464.0		4,117.0				5,044.0		81		1.57	
SLICKWATER FRAC 8/2/2013 08:49 BONE SPRING 2ND ST01 10,093.0 ftKB 10,466.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unk																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5580.42				0.0				2,597.0		3,883.0				4,180.0		81		1.61	
SLICKWATER FRAC 8/2/2013 11:58 BONE SPRING 2ND ST01 9,630.0 ftKB 10,003.0 ftKB Baker Hughes 0.10# 100 Mesh Prop 2.64 unknow																					
Proppant De...		Total Clean Volu...		Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P Break (psi)		ISIP (psi)		Avg Treat Pressur...		Q Treat Avg (bbl/...		P Max (psi)		Q Treat Max (bbl/...		Conc Max...	
132,225.0		5579.73				2,020.0				2,570.0		3,944.0				5,367.0		81		1.58	

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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OCT 24 2013

NM OCD ARTESIA

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-015-40333	² Pool Code 29345	³ Pool Name Hackberry; Bone Spring
⁴ Property Code 39244	⁵ Property Name BELLATRIX "28" FEDERAL COM	⁶ Well Number 3H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3482.3

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	29	19 S	31 E		1560	SOUTH	200	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	28	19 S	31 E		1000	SOUTH	413	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

PP: 2052 FSL & 330 FWL Sec. 28-19S-31E		Project Area: ☐ Producing Area: ☐
NW CORNER SEC. 29 LAT. = 32.6386302°N LONG. = 103.8999686°W NMSP EAST (FT) N = 596336.65 E = 674736.47	SECTION CORNER LAT. = 32.6386573°N LONG. = 103.8828175°W NMSP EAST (FT) N = 596368.47 E = 680015.94	NE CORNER SEC. 28 LAT. = 32.6386863°N LONG. = 103.8656699°W NMSP EAST (FT) N = 596401.84 E = 685294.35
SW CORNER SEC. 29 LAT. = 32.6241144°N LONG. = 103.8999168°W NMSP EAST (FT) N = 591055.73 E = 674773.95	SECTION CORNER LAT. = 32.6241448°N LONG. = 103.8827673°W NMSP EAST (FT) N = 591088.77 E = 680053.80	SE CORNER SEC. 28 LAT. = 32.6241693°N LONG. = 103.8656232°W NMSP EAST (FT) N = 591120.47 E = 685331.96

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Trina C. Couch* Date: 10/22/2013

Printed Name: Trina C. Couch, Regulatory Associate

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor: *[Signature]*

Certificate Number: 12797 Date of Survey: 10/22/2013

Survey No. 759