



Devon Energy, Inc.

Lea County (NAD83)

Pennypacker 17 state

#1H

OH

Plan: Plan #1

PathfinderX & Y Report

02 July, 2012



A Schlumberger Company



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3775.1usft (McVay 8)
Site:	Pennypacker 17 state	MD Reference:	KB = 19 @ 3775.1usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

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

System Datum:	Mean Sea Level
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Site		Pennypacker 17 state							
Site Position:		Northing:		536,660.400	usft	Latitude:		32° 28' 21.060 N	
From:	Map	Easting:		801,457.700	usft	Longitude:		103° 29' 23.504 W	
Position Uncertainty:		0.0	usft	Slot Radius:		13-3/16	"	Grid Convergence:	0.45 °

Well: #1H						
Well Position	+N-S	0.0 usft	Northing:	536,660.400 usft	Latitude:	32° 28' 21.060 N
	+E-W	0.0 usft	Easting:	801,457.700 usft	Longitude:	103° 29' 23.504 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,756.1 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/2/2012	7.44	60.41	48,668

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.0	0.0	0.0	359.49

Survey Tool Program		Date 7/2/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	15,304.0	Plan #1 (OH)	Pathfinder	Pathfinder MWD



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Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned 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	-3,775.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
100.0	0.00	0.00	100.0	-3,675.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
200.0	0.00	0.00	200.0	-3,575.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
300.0	0.00	0.00	300.0	-3,475.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
400.0	0.00	0.00	400.0	-3,375.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
500.0	0.00	0.00	500.0	-3,275.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
600.0	0.00	0.00	600.0	-3,175.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
700.0	0.00	0.00	700.0	-3,075.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
800.0	0.00	0.00	800.0	-2,975.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
900.0	0.00	0.00	900.0	-2,875.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,000.0	0.00	0.00	1,000.0	-2,775.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,100.0	0.00	0.00	1,100.0	-2,675.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,200.0	0.00	0.00	1,200.0	-2,575.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,300.0	0.00	0.00	1,300.0	-2,475.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,400.0	0.00	0.00	1,400.0	-2,375.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,500.0	0.00	0.00	1,500.0	-2,275.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,600.0	0.00	0.00	1,600.0	-2,175.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,700.0	0.00	0.00	1,700.0	-2,075.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,800.0	0.00	0.00	1,800.0	-1,975.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
1,867.0	0.00	0.00	1,867.0	-1,908.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
Rustler											
1,900.0	0.00	0.00	1,900.0	-1,875.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,000.0	0.00	0.00	2,000.0	-1,775.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,100.0	0.00	0.00	2,100.0	-1,675.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,102.0	0.00	0.00	2,102.0	-1,673.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
Salado											
2,200.0	0.00	0.00	2,200.0	-1,575.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Planned 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)	
2,300.0	0.00	0.00	2,300.0	-1,475.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,400.0	0.00	0.00	2,400.0	-1,375.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,500.0	0.00	0.00	2,500.0	-1,275.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,600.0	0.00	0.00	2,600.0	-1,175.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,700.0	0.00	0.00	2,700.0	-1,075.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,800.0	0.00	0.00	2,800.0	-975.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
2,900.0	0.00	0.00	2,900.0	-875.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,000.0	0.00	0.00	3,000.0	-775.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,100.0	0.00	0.00	3,100.0	-675.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,200.0	0.00	0.00	3,200.0	-575.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,300.0	0.00	0.00	3,300.0	-475.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,400.0	0.00	0.00	3,400.0	-375.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,500.0	0.00	0.00	3,500.0	-275.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,600.0	0.00	0.00	3,600.0	-175.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,700.0	0.00	0.00	3,700.0	-75.1	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,800.0	0.00	0.00	3,800.0	24.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,900.0	0.00	0.00	3,900.0	124.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
3,917.0	0.00	0.00	3,917.0	141.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
Yates											
4,000.0	0.00	0.00	4,000.0	224.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,100.0	0.00	0.00	4,100.0	324.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,200.0	0.00	0.00	4,200.0	424.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,300.0	0.00	0.00	4,300.0	524.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,400.0	0.00	0.00	4,400.0	624.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,500.0	0.00	0.00	4,500.0	724.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,600.0	0.00	0.00	4,600.0	824.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,700.0	0.00	0.00	4,700.0	924.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned 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)	
4,800.0	0.00	0.00	4,800.0	1,024.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
4,900.0	0.00	0.00	4,900.0	1,124.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,000.0	0.00	0.00	5,000.0	1,224.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,100.0	0.00	0.00	5,100.0	1,324.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,200.0	0.00	0.00	5,200.0	1,424.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,300.0	0.00	0.00	5,300.0	1,524.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,400.0	0.00	0.00	5,400.0	1,624.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,500.0	0.00	0.00	5,500.0	1,724.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,600.0	0.00	0.00	5,600.0	1,824.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,700.0	0.00	0.00	5,700.0	1,924.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,800.0	0.00	0.00	5,800.0	2,024.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
5,853.0	0.00	0.00	5,853.0	2,077.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
Cherry Canyon											
5,900.0	0.00	0.00	5,900.0	2,124.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,000.0	0.00	0.00	6,000.0	2,224.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,100.0	0.00	0.00	6,100.0	2,324.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,200.0	0.00	0.00	6,200.0	2,424.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,300.0	0.00	0.00	6,300.0	2,524.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,400.0	0.00	0.00	6,400.0	2,624.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,500.0	0.00	0.00	6,500.0	2,724.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,600.0	0.00	0.00	6,600.0	2,824.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,700.0	0.00	0.00	6,700.0	2,924.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,800.0	0.00	0.00	6,800.0	3,024.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
6,900.0	0.00	0.00	6,900.0	3,124.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,000.0	0.00	0.00	7,000.0	3,224.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,100.0	0.00	0.00	7,100.0	3,324.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,200.0	0.00	0.00	7,200.0	3,424.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned 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)	
7,220.0	0.00	0.00	7,220.0	3,444.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
Brushy Canyon											
7,300.0	0.00	0.00	7,300.0	3,524.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,400.0	0.00	0.00	7,400.0	3,624.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,500.0	0.00	0.00	7,500.0	3,724.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,600.0	0.00	0.00	7,600.0	3,824.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,700.0	0.00	0.00	7,700.0	3,924.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,800.0	0.00	0.00	7,800.0	4,024.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
7,900.0	0.00	0.00	7,900.0	4,124.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,000.0	0.00	0.00	8,000.0	4,224.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,100.0	0.00	0.00	8,100.0	4,324.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,200.0	0.00	0.00	8,200.0	4,424.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,300.0	0.00	0.00	8,300.0	4,524.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,400.0	0.00	0.00	8,400.0	4,624.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,500.0	0.00	0.00	8,500.0	4,724.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,600.0	0.00	0.00	8,600.0	4,824.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,700.0	0.00	0.00	8,700.0	4,924.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,725.0	0.00	0.00	8,725.0	4,949.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
Bone Spring											
8,800.0	0.00	0.00	8,800.0	5,024.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
8,900.0	0.00	0.00	8,900.0	5,124.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,000.0	0.00	0.00	9,000.0	5,224.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,100.0	0.00	0.00	9,100.0	5,324.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,200.0	0.00	0.00	9,200.0	5,424.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,300.0	0.00	0.00	9,300.0	5,524.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,400.0	0.00	0.00	9,400.0	5,624.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,500.0	0.00	0.00	9,500.0	5,724.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	



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9,600.0	0.00	0.00	9,600.0	5,824.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,700.0	0.00	0.00	9,700.0	5,924.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,800.0	0.00	0.00	9,800.0	6,024.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
9,900.0	0.00	0.00	9,900.0	6,124.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
10,000.0	0.00	0.00	10,000.0	6,224.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
10,100.0	0.00	0.00	10,100.0	6,324.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
10,200.0	0.00	0.00	10,200.0	6,424.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
10,210.0	0.00	0.00	10,210.0	6,434.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
Second Bone Spring											
10,300.0	0.00	0.00	10,300.0	6,524.9	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
10,357.1	0.00	0.00	10,357.1	6,582.0	0.0	0.0	0.0	0.00	536,660.40	801,457.70	
10,400.0	4.29	359.49	10,400.0	6,624.9	1.6	0.0	1.6	10.00	536,662.01	801,457.69	
10,450.0	9.29	359.49	10,449.6	6,674.5	7.5	-0.1	7.5	10.00	536,667.91	801,457.63	
10,500.0	14.29	359.49	10,498.5	6,723.4	17.7	-0.2	17.7	10.00	536,678.13	801,457.54	
10,550.0	19.29	359.49	10,546.4	6,771.3	32.2	-0.3	32.2	10.00	536,692.57	801,457.41	
10,600.0	24.29	359.49	10,592.8	6,817.7	50.7	-0.5	50.7	10.00	536,711.12	801,457.25	
10,650.0	29.29	359.49	10,637.4	6,862.3	73.2	-0.7	73.2	10.00	536,733.65	801,457.05	
10,700.0	34.29	359.49	10,679.9	6,904.8	99.6	-0.9	99.6	10.00	536,759.98	801,456.82	
10,750.0	39.29	359.49	10,719.9	6,944.8	129.5	-1.1	129.5	10.00	536,789.91	801,456.55	
10,800.0	44.29	359.49	10,757.2	6,982.1	162.8	-1.4	162.8	10.00	536,823.22	801,456.25	
10,850.0	49.29	359.49	10,791.4	7,016.3	199.2	-1.8	199.3	10.00	536,859.65	801,455.93	
10,900.0	54.29	359.49	10,822.3	7,047.2	238.5	-2.1	238.5	10.00	536,898.92	801,455.58	
10,950.0	59.29	359.49	10,849.7	7,074.6	280.3	-2.5	280.4	10.00	536,940.74	801,455.21	
11,000.0	64.29	359.49	10,873.3	7,098.2	324.4	-2.9	324.4	10.00	536,984.79	801,454.82	
11,050.0	69.29	359.49	10,893.0	7,117.9	370.3	-3.3	370.3	10.00	537,030.72	801,454.41	
11,100.0	74.29	359.49	10,908.7	7,133.6	417.8	-3.7	417.8	10.00	537,078.20	801,453.99	
11,150.0	79.29	359.49	10,920.1	7,145.0	466.5	-4.1	466.5	10.00	537,126.86	801,453.56	



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Pennypacker 17 state
Well: #1H
Wellbore: OH
Design: Plan #1

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

Well #1H
KB = 19 @ 3775.1usft (McVay 8)
KB = 19 @ 3775.1usft (McVay 8)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Planned 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)
11,200.0	84.29	359.49	10,927.2	7,152.1	515.9	-4.6	516.0	10.00	537,176.33	801,453.12
11,250.0	89.29	359.49	10,930.0	7,154.9	565.8	-5.0	565.9	10.00	537,226.24	801,452.68
11,263.5	90.64	359.49	10,930.0	7,154.9	579.3	-5.1	579.3	10.00	537,239.72	801,452.56
11,300.0	90.64	359.49	10,929.6	7,154.5	615.8	-5.5	615.9	0.00	537,276.23	801,452.23
11,400.0	90.64	359.49	10,928.5	7,153.4	715.8	-6.4	715.8	0.00	537,376.22	801,451.35
11,500.0	90.64	359.49	10,927.4	7,152.3	815.8	-7.2	815.8	0.00	537,476.21	801,450.46
11,600.0	90.64	359.49	10,926.3	7,151.2	915.8	-8.1	915.8	0.00	537,576.20	801,449.57
11,700.0	90.64	359.49	10,925.2	7,150.1	1,015.8	-9.0	1,015.8	0.00	537,676.19	801,448.68
11,800.0	90.64	359.49	10,924.0	7,148.9	1,115.8	-9.9	1,115.8	0.00	537,776.18	801,447.80
11,900.0	90.64	359.49	10,922.9	7,147.8	1,215.8	-10.8	1,215.8	0.00	537,876.17	801,446.91
12,000.0	90.64	359.49	10,921.8	7,146.7	1,315.8	-11.7	1,315.8	0.00	537,976.16	801,446.02
12,100.0	90.64	359.49	10,920.7	7,145.6	1,415.7	-12.6	1,415.8	0.00	538,076.15	801,445.13
12,200.0	90.64	359.49	10,919.6	7,144.5	1,515.7	-13.5	1,515.8	0.00	538,176.14	801,444.25
12,300.0	90.64	359.49	10,918.5	7,143.4	1,615.7	-14.3	1,615.8	0.00	538,276.13	801,443.36
12,400.0	90.64	359.49	10,917.4	7,142.3	1,715.7	-15.2	1,715.8	0.00	538,376.12	801,442.47
12,500.0	90.64	359.49	10,916.2	7,141.1	1,815.7	-16.1	1,815.8	0.00	538,476.11	801,441.58
12,600.0	90.64	359.49	10,915.1	7,140.0	1,915.7	-17.0	1,915.8	0.00	538,576.10	801,440.70
12,700.0	90.64	359.49	10,914.0	7,138.9	2,015.7	-17.9	2,015.8	0.00	538,676.09	801,439.81
12,800.0	90.64	359.49	10,912.9	7,137.8	2,115.7	-18.8	2,115.8	0.00	538,776.08	801,438.92
12,900.0	90.64	359.49	10,911.8	7,136.7	2,215.7	-19.7	2,215.8	0.00	538,876.07	801,438.04
13,000.0	90.64	359.49	10,910.7	7,135.6	2,315.7	-20.6	2,315.7	0.00	538,976.06	801,437.15
13,100.0	90.64	359.49	10,909.6	7,134.5	2,415.6	-21.4	2,415.7	0.00	539,076.05	801,436.26
13,200.0	90.64	359.49	10,908.4	7,133.3	2,515.6	-22.3	2,515.7	0.00	539,176.04	801,435.37
13,300.0	90.64	359.49	10,907.3	7,132.2	2,615.6	-23.2	2,615.7	0.00	539,276.03	801,434.49
13,400.0	90.64	359.49	10,906.2	7,131.1	2,715.6	-24.1	2,715.7	0.00	539,376.02	801,433.60
13,500.0	90.64	359.49	10,905.1	7,130.0	2,815.6	-25.0	2,815.7	0.00	539,476.01	801,432.71
13,600.0	90.64	359.49	10,904.0	7,128.9	2,915.6	-25.9	2,915.7	0.00	539,576.00	801,431.82



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3775.1usft (McVay 8)
Site:	Pennypacker 17 state	MD Reference:	KB = 19 @ 3775.1usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned 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)	
13,700.0	90.64	359.49	10,902.9	7,127.8	3,015.6	-26.8	3,015.7	0.00	539,675.99	801,430.94	
13,800.0	90.64	359.49	10,901.8	7,126.7	3,115.6	-27.7	3,115.7	0.00	539,775.98	801,430.05	
13,900.0	90.64	359.49	10,900.6	7,125.5	3,215.6	-28.5	3,215.7	0.00	539,875.97	801,429.16	
14,000.0	90.64	359.49	10,899.5	7,124.4	3,315.6	-29.4	3,315.7	0.00	539,975.96	801,428.27	
14,100.0	90.64	359.49	10,898.4	7,123.3	3,415.5	-30.3	3,415.7	0.00	540,075.95	801,427.39	
14,200.0	90.64	359.49	10,897.3	7,122.2	3,515.5	-31.2	3,515.7	0.00	540,175.94	801,426.50	
14,300.0	90.64	359.49	10,896.2	7,121.1	3,615.5	-32.1	3,615.7	0.00	540,275.93	801,425.61	
14,400.0	90.64	359.49	10,895.1	7,120.0	3,715.5	-33.0	3,715.7	0.00	540,375.92	801,424.72	
14,500.0	90.64	359.49	10,894.0	7,118.9	3,815.5	-33.9	3,815.7	0.00	540,475.91	801,423.84	
14,600.0	90.64	359.49	10,892.8	7,117.7	3,915.5	-34.8	3,915.7	0.00	540,575.90	801,422.95	
14,700.0	90.64	359.49	10,891.7	7,116.6	4,015.5	-35.6	4,015.6	0.00	540,675.89	801,422.06	
14,800.0	90.64	359.49	10,890.6	7,115.5	4,115.5	-36.5	4,115.6	0.00	540,775.88	801,421.17	
14,900.0	90.64	359.49	10,889.5	7,114.4	4,215.5	-37.4	4,215.6	0.00	540,875.87	801,420.29	
15,000.0	90.64	359.49	10,888.4	7,113.3	4,315.5	-38.3	4,315.6	0.00	540,975.86	801,419.40	
15,100.0	90.64	359.49	10,887.3	7,112.2	4,415.4	-39.2	4,415.6	0.00	541,075.85	801,418.51	
15,200.0	90.64	359.49	10,886.2	7,111.1	4,515.4	-40.1	4,515.6	0.00	541,175.84	801,417.62	
15,304.1	90.64	359.49	10,885.0	7,109.9	4,619.5	-41.0	4,619.7	0.00	541,279.90	801,416.70	
PBHL(Pennypacker 17 state #1H)											

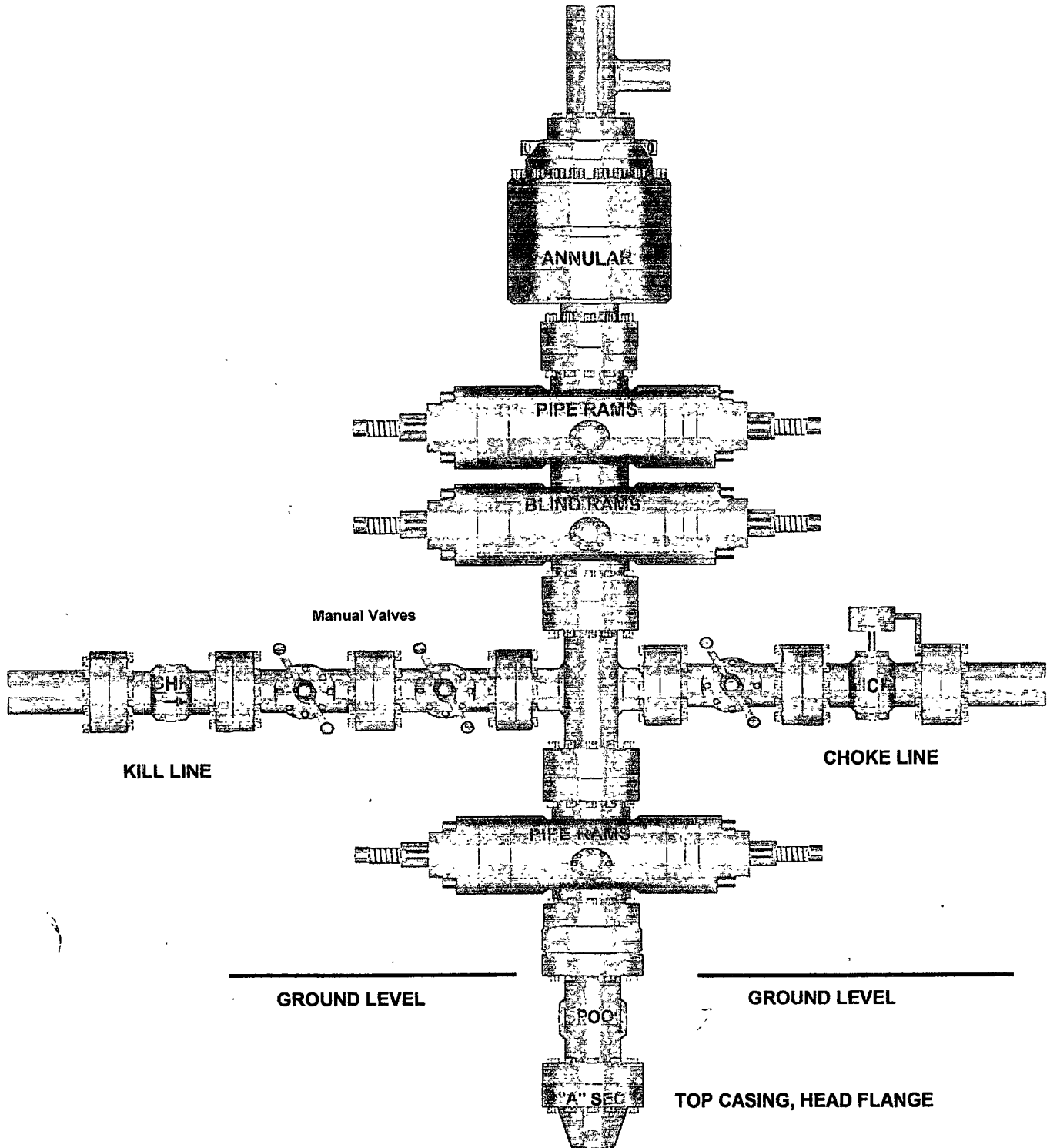


Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3775.1usft (McVay 8)
Site:	Pennypacker 17 state	MD Reference:	KB = 19 @ 3775.1usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction	
1,867.0	1,867.0	Rustler				
2,102.0	2,102.0	Salado				
3,917.0	3,917.0	Yates				
5,853.0	5,853.0	Cherry Canyon				
7,220.0	7,220.0	Brushy Canyon				
8,725.0	8,725.0	Bone Spring				
10,210.0	10,210.0	Second Bone Spring				

Checked By: _____	Approved By: _____	Date: _____
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13-5/8" x 3,000 psi BOP Stack



13-5/8" 3M BOPE & Closed Loop Equipment Schematic

