



Devon Energy, Inc.

Lea County (NAD83)
Butter Cup 35 State Com
#1H
OH

Plan: Plan #1

PathfinderX & Y Report

04 June, 2012

PATHFINDER[®]
A Schlumberger Company

JUN 21 2012



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 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (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	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Butter Cup 35 State Com		
Site Position:		Northing:	618,790.200 usft
From:	Map	Easting:	790,603.000 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.698
		Longitude:	-103.523
		Grid Convergence:	0.44 °

Well		#1H				
Well Position	+N/-S	0.0 usft	Northing:	618,790.200 usft	Latitude:	32.698
	+E/-W	0.0 usft	Easting:	790,603.000 usft	Longitude:	-103.523
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,970.4 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/4/2012	7.48	60.61	48,806

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	269.53

Survey Tool Program		Date 6/4/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	15,130.1	Plan #1 (OH)	Pathfinder	Pathfinder MWD



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 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (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)	
0.0	0.00	0.00	0.0	-3,989.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
24.4	0.00	0.00	24.4	-3,965.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
QUATERNARY											
100.0	0.00	0.00	100.0	-3,889.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
200.0	0.00	0.00	200.0	-3,789.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
300.0	0.00	0.00	300.0	-3,689.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
400.0	0.00	0.00	400.0	-3,589.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
500.0	0.00	0.00	500.0	-3,489.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
600.0	0.00	0.00	600.0	-3,389.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
700.0	0.00	0.00	700.0	-3,289.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
800.0	0.00	0.00	800.0	-3,189.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
900.0	0.00	0.00	900.0	-3,089.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,000.0	0.00	0.00	1,000.0	-2,989.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,100.0	0.00	0.00	1,100.0	-2,889.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,200.0	0.00	0.00	1,200.0	-2,789.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,300.0	0.00	0.00	1,300.0	-2,689.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,400.0	0.00	0.00	1,400.0	-2,589.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,500.0	0.00	0.00	1,500.0	-2,489.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,600.0	0.00	0.00	1,600.0	-2,389.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,700.0	0.00	0.00	1,700.0	-2,289.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,800.0	0.00	0.00	1,800.0	-2,189.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1,893.4	0.00	0.00	1,893.4	-2,096.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
RUSTLER DOL.											
1,900.0	0.00	0.00	1,900.0	-2,089.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
2,000.0	0.00	0.00	2,000.0	-1,989.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
2,100.0	0.00	0.00	2,100.0	-1,889.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
2,174.4	0.00	0.00	2,174.4	-1,815.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
SALADO SALT											



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (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)
2,200.0	0.00	0.00	2,200.0	-1,789.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
2,300.0	0.00	0.00	2,300.0	-1,689.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
2,400.0	0.00	0.00	2,400.0	-1,589.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
2,500.0	0.00	0.00	2,500.0	-1,489.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
2,600.0	0.00	0.00	2,600.0	-1,389.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
2,700.0	0.00	0.00	2,700.0	-1,289.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
2,800.0	0.00	0.00	2,800.0	-1,189.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
2,900.0	0.00	0.00	2,900.0	-1,089.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,000.0	0.00	0.00	3,000.0	-989.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,100.0	0.00	0.00	3,100.0	-889.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,200.0	0.00	0.00	3,200.0	-789.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,300.0	0.00	0.00	3,300.0	-689.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,344.4	0.00	0.00	3,344.4	-645.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00
BASE SALT										
3,400.0	0.00	0.00	3,400.0	-589.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,449.4	0.00	0.00	3,449.4	-540.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00
YATES SS										
3,500.0	0.00	0.00	3,500.0	-489.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,600.0	0.00	0.00	3,600.0	-389.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,700.0	0.00	0.00	3,700.0	-289.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,800.0	0.00	0.00	3,800.0	-189.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
3,900.0	0.00	0.00	3,900.0	-89.4	0.0	0.0	0.0	0.00	618,790.20	790,603.00
4,000.0	0.00	0.00	4,000.0	10.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00
4,100.0	0.00	0.00	4,100.0	110.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00
4,200.0	0.00	0.00	4,200.0	210.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00
4,300.0	0.00	0.00	4,300.0	310.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00
4,400.0	0.00	0.00	4,400.0	410.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00



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 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (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)	
4,500.0	0.00	0.00	4,500.0	510.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
4,600.0	0.00	0.00	4,600.0	610.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
4,700.0	0.00	0.00	4,700.0	710.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
4,724.4	0.00	0.00	4,724.4	735.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
QUEEN SS.											
4,800.0	0.00	0.00	4,800.0	810.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
4,900.0	0.00	0.00	4,900.0	910.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,000.0	0.00	0.00	5,000.0	1,010.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,100.0	0.00	0.00	5,100.0	1,110.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,200.0	0.00	0.00	5,200.0	1,210.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,300.0	0.00	0.00	5,300.0	1,310.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,304.4	0.00	0.00	5,304.4	1,315.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
GRAYBURG											
5,400.0	0.00	0.00	5,400.0	1,410.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,500.0	0.00	0.00	5,500.0	1,510.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,600.0	0.00	0.00	5,600.0	1,610.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,700.0	0.00	0.00	5,700.0	1,710.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,800.0	0.00	0.00	5,800.0	1,810.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
5,900.0	0.00	0.00	5,900.0	1,910.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,000.0	0.00	0.00	6,000.0	2,010.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,100.0	0.00	0.00	6,100.0	2,110.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,200.0	0.00	0.00	6,200.0	2,210.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,300.0	0.00	0.00	6,300.0	2,310.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,400.0	0.00	0.00	6,400.0	2,410.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,500.0	0.00	0.00	6,500.0	2,510.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,600.0	0.00	0.00	6,600.0	2,610.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,700.0	0.00	0.00	6,700.0	2,710.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	



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 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (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)	
6,800.0	0.00	0.00	6,800.0	2,810.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,900.0	0.00	0.00	6,900.0	2,910.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
6,990.4	0.00	0.00	6,990.4	3,001.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
DELAWARE											
7,000.0	0.00	0.00	7,000.0	3,010.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,100.0	0.00	0.00	7,100.0	3,110.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,200.0	0.00	0.00	7,200.0	3,210.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,300.0	0.00	0.00	7,300.0	3,310.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,400.0	0.00	0.00	7,400.0	3,410.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,500.0	0.00	0.00	7,500.0	3,510.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,600.0	0.00	0.00	7,600.0	3,610.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,700.0	0.00	0.00	7,700.0	3,710.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,800.0	0.00	0.00	7,800.0	3,810.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,900.0	0.00	0.00	7,900.0	3,910.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
7,979.4	0.00	0.00	7,979.4	3,990.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1ST-BONE SPRING L.M.											
8,000.0	0.00	0.00	8,000.0	4,010.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,100.0	0.00	0.00	8,100.0	4,110.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,200.0	0.00	0.00	8,200.0	4,210.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,300.0	0.00	0.00	8,300.0	4,310.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,400.0	0.00	0.00	8,400.0	4,410.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,500.0	0.00	0.00	8,500.0	4,510.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,600.0	0.00	0.00	8,600.0	4,610.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,700.0	0.00	0.00	8,700.0	4,710.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,800.0	0.00	0.00	8,800.0	4,810.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
8,900.0	0.00	0.00	8,900.0	4,910.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,000.0	0.00	0.00	9,000.0	5,010.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	



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 @ 3989.4usft (McVay.8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (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)	
9,100.0	0.00	0.00	9,100.0	5,110.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,200.0	0.00	0.00	9,200.0	5,210.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,300.0	0.00	0.00	9,300.0	5,310.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,324.4	0.00	0.00	9,324.4	5,335.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
1ST BONE SPRING SS.											
9,400.0	0.00	0.00	9,400.0	5,410.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,500.0	0.00	0.00	9,500.0	5,510.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,524.4	0.00	0.00	9,524.4	5,535.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
2ND BONE SPRING LM											
9,600.0	0.00	0.00	9,600.0	5,610.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,700.0	0.00	0.00	9,700.0	5,710.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,800.0	0.00	0.00	9,800.0	5,810.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
9,864.4	0.00	0.00	9,864.4	5,875.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
2ND BONE SPRING SS											
9,900.0	0.00	0.00	9,900.0	5,910.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
10,000.0	0.00	0.00	10,000.0	6,010.6	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
10,004.4	0.00	0.00	10,004.4	6,015.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
3rd Bone Spring Lime											
10,051.4	0.00	0.00	10,051.4	6,062.0	0.0	0.0	0.0	0.00	618,790.20	790,603.00	
10,100.0	4.86	269.53	10,099.9	6,110.5	0.0	-2.1	2.1	10.00	618,790.18	790,600.94	
10,150.0	9.86	269.53	10,149.5	6,160.1	-0.1	-8.5	8.5	10.00	618,790.13	790,594.54	
10,200.0	14.86	269.53	10,198.3	6,208.9	-0.2	-19.2	19.2	10.00	618,790.04	790,583.84	
10,250.0	19.86	269.53	10,246.0	6,256.6	-0.3	-34.1	34.1	10.00	618,789.92	790,568.92	
10,300.0	24.86	269.53	10,292.3	6,302.9	-0.4	-53.1	53.1	10.00	618,789.76	790,549.91	
10,350.0	29.86	269.53	10,336.7	6,347.3	-0.6	-76.1	76.1	10.00	618,789.57	790,526.94	
10,400.0	34.86	269.53	10,378.9	6,389.5	-0.8	-102.8	102.8	10.00	618,789.35	790,500.19	
10,450.0	39.86	269.53	10,418.6	6,429.2	-1.1	-133.1	133.1	10.00	618,789.10	790,469.86	



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 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com.	MD Reference:	KB = 19 @ 3989.4usft (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)	
10,457.6	40.62	269.53	10,424.4	6,435.0	-1.1	-138.0	138.0	10.00	618,789.06	790,464.96	
3rd Bone Spring Sand											
10,500.0	44.86	269.53	10,455.6	6,466.2	-1.4	-166.8	166.8	10.00	618,788.83	790,436.18	
10,550.0	49.86	269.53	10,489.4	6,500.0	-1.7	-203.6	203.6	10.00	618,788.52	790,399.41	
10,600.0	54.86	269.53	10,519.9	6,530.5	-2.0	-243.2	243.2	10.00	618,788.20	790,359.83	
10,650.0	59.86	269.53	10,546.9	6,557.5	-2.3	-285.3	285.3	10.00	618,787.85	790,317.74	
10,700.0	64.86	269.53	10,570.1	6,580.7	-2.7	-329.5	329.5	10.00	618,787.49	790,273.46	
10,750.0	69.86	269.53	10,589.3	6,599.9	-3.1	-375.7	375.7	10.00	618,787.11	790,227.33	
10,800.0	74.86	269.53	10,604.5	6,615.1	-3.5	-423.3	423.3	10.00	618,786.72	790,179.70	
10,850.0	79.86	269.53	10,615.4	6,626.0	-3.9	-472.1	472.1	10.00	618,786.32	790,130.93	
10,900.0	84.86	269.53	10,622.1	6,632.7	-4.3	-521.6	521.6	10.00	618,785.91	790,081.39	
10,951.4	90.00	269.53	10,624.4	6,635.0	-4.7	-572.9	573.0	10.00	618,785.49	790,030.07	
11,000.0	90.00	269.53	10,624.4	6,635.0	-5.1	-621.5	621.6	0.00	618,785.09	789,981.46	
11,100.0	90.00	269.53	10,624.4	6,635.0	-5.9	-721.5	721.6	0.00	618,784.26	789,881.47	
11,200.0	90.00	269.53	10,624.4	6,635.0	-6.8	-821.5	821.6	0.00	618,783.44	789,781.47	
11,300.0	90.00	269.53	10,624.4	6,635.0	-7.6	-921.5	921.6	0.00	618,782.62	789,681.47	
11,400.0	90.00	269.53	10,624.4	6,635.0	-8.4	-1,021.5	1,021.6	0.00	618,781.79	789,581.48	
11,500.0	90.00	269.53	10,624.4	6,635.0	-9.2	-1,121.5	1,121.6	0.00	618,780.97	789,481.48	
11,600.0	90.00	269.53	10,624.4	6,635.0	-10.1	-1,221.5	1,221.6	0.00	618,780.15	789,381.48	
11,700.0	90.00	269.53	10,624.4	6,635.0	-10.9	-1,321.5	1,321.6	0.00	618,779.33	789,281.49	
11,800.0	90.00	269.53	10,624.4	6,635.0	-11.7	-1,421.5	1,421.6	0.00	618,778.50	789,181.49	
11,900.0	90.00	269.53	10,624.4	6,635.0	-12.5	-1,521.5	1,521.6	0.00	618,777.68	789,081.49	
12,000.0	90.00	269.53	10,624.4	6,635.0	-13.3	-1,621.5	1,621.6	0.00	618,776.86	788,981.50	
12,100.0	90.00	269.53	10,624.4	6,635.0	-14.2	-1,721.5	1,721.6	0.00	618,776.04	788,881.50	
12,200.0	90.00	269.53	10,624.4	6,635.0	-15.0	-1,821.5	1,821.6	0.00	618,775.21	788,781.50	
12,300.0	90.00	269.53	10,624.4	6,635.0	-15.8	-1,921.5	1,921.6	0.00	618,774.39	788,681.51	
12,400.0	90.00	269.53	10,624.4	6,635.0	-16.6	-2,021.5	2,021.6	0.00	618,773.57	788,581.51	



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (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)	
12,500.0	90.00	269.53	10,624.4	6,635.0	-17.5	-2,121.5	2,121.6	0.00	618,772.74	788,481.51	
12,600.0	90.00	269.53	10,624.4	6,635.0	-18.3	-2,221.5	2,221.6	0.00	618,771.92	788,381.52	
12,700.0	90.00	269.53	10,624.4	6,635.0	-19.1	-2,321.5	2,321.6	0.00	618,771.10	788,281.52	
12,800.0	90.00	269.53	10,624.4	6,635.0	-19.9	-2,421.5	2,421.6	0.00	618,770.28	788,181.52	
12,900.0	90.00	269.53	10,624.4	6,635.0	-20.7	-2,521.5	2,521.6	0.00	618,769.45	788,081.53	
13,000.0	90.00	269.53	10,624.4	6,635.0	-21.6	-2,621.5	2,621.6	0.00	618,768.63	787,981.53	
13,100.0	90.00	269.53	10,624.4	6,635.0	-22.4	-2,721.5	2,721.6	0.00	618,767.81	787,881.53	
13,200.0	90.00	269.53	10,624.4	6,635.0	-23.2	-2,821.5	2,821.6	0.00	618,766.98	787,781.54	
13,300.0	90.00	269.53	10,624.4	6,635.0	-24.0	-2,921.5	2,921.6	0.00	618,766.16	787,681.54	
13,400.0	90.00	269.53	10,624.4	6,635.0	-24.9	-3,021.5	3,021.6	0.00	618,765.34	787,581.54	
13,500.0	90.00	269.53	10,624.4	6,635.0	-25.7	-3,121.5	3,121.6	0.00	618,764.52	787,481.55	
13,600.0	90.00	269.53	10,624.4	6,635.0	-26.5	-3,221.4	3,221.6	0.00	618,763.69	787,381.55	
13,700.0	90.00	269.53	10,624.4	6,635.0	-27.3	-3,321.4	3,321.6	0.00	618,762.87	787,281.55	
13,800.0	90.00	269.53	10,624.4	6,635.0	-28.2	-3,421.4	3,421.6	0.00	618,762.05	787,181.56	
13,900.0	90.00	269.53	10,624.4	6,635.0	-29.0	-3,521.4	3,521.6	0.00	618,761.22	787,081.56	
14,000.0	90.00	269.53	10,624.4	6,635.0	-29.8	-3,621.4	3,621.6	0.00	618,760.40	786,981.56	
14,100.0	90.00	269.53	10,624.4	6,635.0	-30.6	-3,721.4	3,721.6	0.00	618,759.58	786,881.57	
14,200.0	90.00	269.53	10,624.4	6,635.0	-31.4	-3,821.4	3,821.6	0.00	618,758.76	786,781.57	
14,300.0	90.00	269.53	10,624.4	6,635.0	-32.3	-3,921.4	3,921.6	0.00	618,757.93	786,681.57	
14,400.0	90.00	269.53	10,624.4	6,635.0	-33.1	-4,021.4	4,021.6	0.00	618,757.11	786,581.58	
14,500.0	90.00	269.53	10,624.4	6,635.0	-33.9	-4,121.4	4,121.6	0.00	618,756.29	786,481.58	
14,600.0	90.00	269.53	10,624.4	6,635.0	-34.7	-4,221.4	4,221.6	0.00	618,755.46	786,381.59	
14,700.0	90.00	269.53	10,624.4	6,635.0	-35.6	-4,321.4	4,321.6	0.00	618,754.64	786,281.59	
14,800.0	90.00	269.53	10,624.4	6,635.0	-36.4	-4,421.4	4,421.6	0.00	618,753.82	786,181.59	
14,900.0	90.00	269.53	10,624.4	6,635.0	-37.2	-4,521.4	4,521.6	0.00	618,753.00	786,081.60	
15,000.0	90.00	269.53	10,624.4	6,635.0	-38.0	-4,621.4	4,621.6	0.00	618,752.17	785,981.60	
15,100.0	90.00	269.53	10,624.4	6,635.0	-38.8	-4,721.4	4,721.6	0.00	618,751.35	785,881.60	



Pathfinder
PathfinderX & Y Report



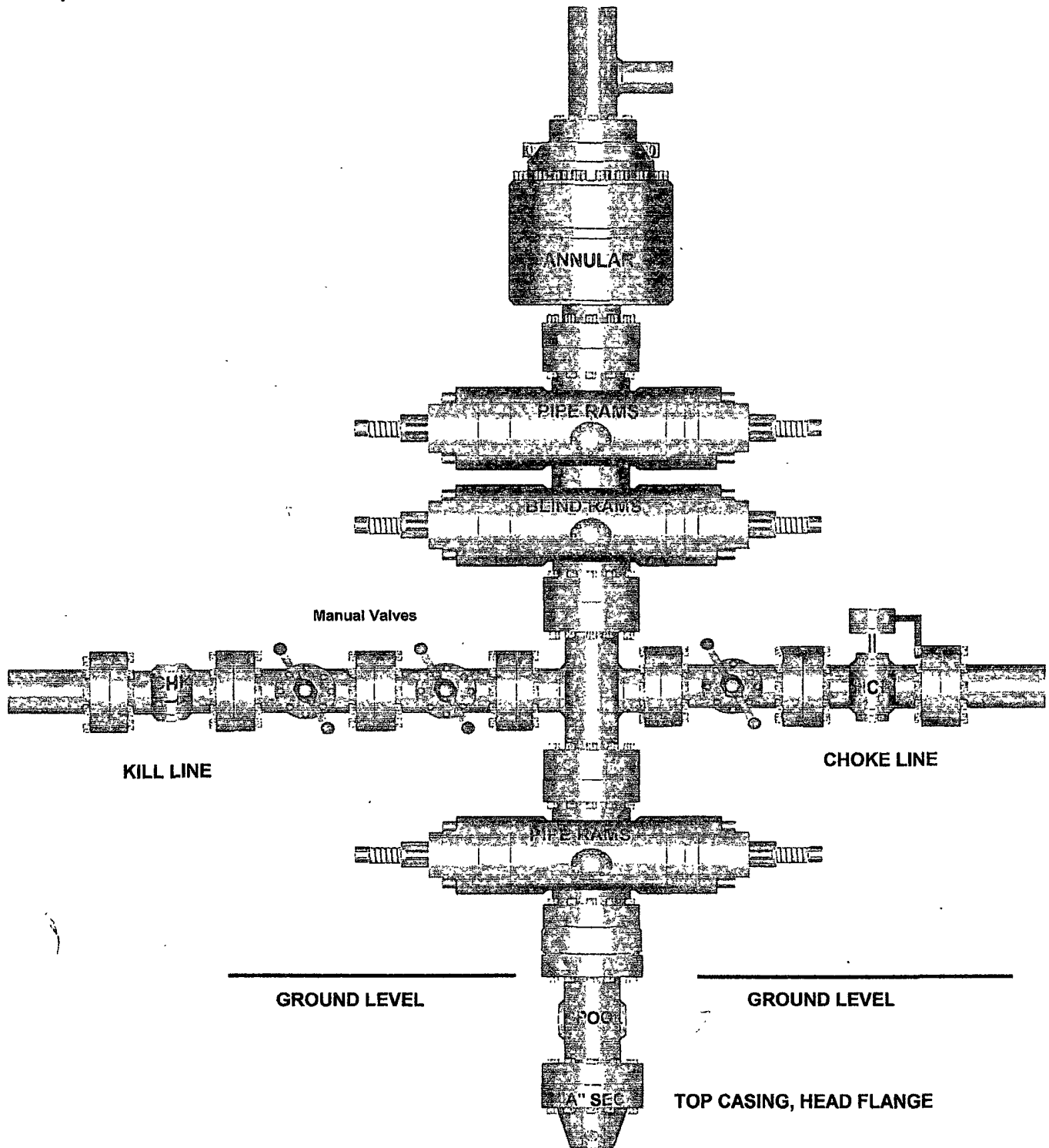
Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3989.4usft (McVay 8)
Site:	Butter Cup 35 State Com	MD Reference:	KB = 19 @ 3989.4usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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)	
15,130.5	90.00	269.53	10,624.4	6,635.0	-39.1	-4,751.9	4,752.1	0.00	618,751.10	785,851.10	
PBHL(Butter Cup 35 State #1H)											

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.4	24.4	QUATERNARY		0.00		
4,724.4	4,724.4	QUEEN SS.		0.00		
9,864.4	9,864.4	2ND BONE SPRING SS		0.00		
1,893.4	1,893.4	RUSTLER DOL		0.00		
2,174.4	2,174.4	SALADO SALT		0.00		
3,449.4	3,449.4	YATES SS		0.00		
7,979.4	7,979.4	1ST BONE SPRING LM.		0.00		
10,004.4	10,004.4	3rd Bone Spring Lime		0.00		
9,324.4	9,324.4	1ST BONE SPRING SS.		0.00		
9,524.4	9,524.4	2ND BONE SPRING LM		0.00		
3,344.4	3,344.4	BASE SALT				
5,304.4	5,304.4	GRAYBURG		0.00		
6,990.4	6,990.4	DELAWARE		0.00		
10,457.6	10,424.4	3rd Bone Spring Sand		0.00		

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

13-5/8" x 3,000 psi BOP Stack



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

