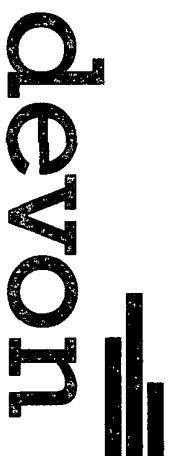


30 025-40640



Devon Energy, Inc.

Lea County (NAD83)

Butter Cup 36 State Com

#1H

OH

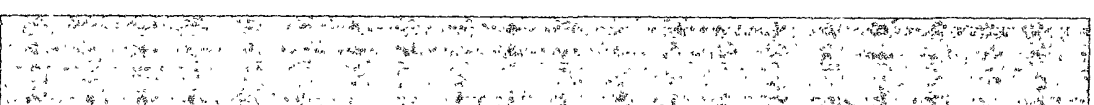
Plan: Plan #2

PathfinderX & Y Report

05 June, 2012



A Schlumberger Company





Pathfinder

PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Devon Energy, Inc.	Well #1H	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	KB = 19 @ 3989.8usft (McVay 8)	TVD Reference:	KB = 19 @ 3989.8usft (McVay 8)
Site:	Butter Cup 36 State Com	#1H	MD Reference:	Grid
Well:	OH	Plan #2	North Reference:	Minimum Curvature
Wellbore:			Survey Calculation Method:	EDM 5000.1 Single User Db
Design:			Database:	

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

Site	Butter Cup 36 State Com	Northing:	618,740.200 usft	Latitude:	32.698
Site Position:		Easting:	790,603.400 usft	Longitude:	-103.523
From:	Map	Slot Radius:	13-3/16 "	Grid Convergence:	0.44 °
Position Uncertainty:	0.0 usft				

Well	#1H	Northing:	618,740.200 usft	Latitude:	32.698
Well Position	+N/-S	Easting:	790,603.400 usft	Longitude:	-103.523
	+E/-W	Wellhead Elevation:	usft	Ground Level:	3,970.8 usft
Position Uncertainty	0.0 usft				

Wellbore	OH	Declination	7.48	Dip Angle	60.61	Field Strength	48,806
Magnetics		Sample Date	6/4/2012				

Design	Plan #2	Phase:	PLAN	Tie On Depth:	0.0
Audit Notes:					
Version:		Depth From (TVD)	+N/-S	+E/-W	Direction
		(usft)	(usft)	(usft)	(°)
		0.0	0.0	0.0	89.49

Survey Tool Program	Date	6/5/2012	Tool Name	Description
From	To			
(usft)	(usft)			
0.0	15,485.8	Plan #2 (OH)	Pathfinder	Pathfinder MWD



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc. Project: Lea County (NAD83) Site: Butter Cup 36 State Com Well: #1H Wellbore: OH Design: Plan #2			Local Co-ordinate Reference: TVD Reference: KB = 19 @ 3989.8usft (McVay 8) MD Reference: KB = 19 @ 3989.8usft (McVay 8) North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000 1 Single User Db							Well #1H	
Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,989.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
24.8	0.00	0.00	24.8	-3,965.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
QUATERNARY											
100.0	0.00	0.00	100.0	-3,889.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
200.0	0.00	0.00	200.0	-3,789.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
300.0	0.00	0.00	300.0	-3,689.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
400.0	0.00	0.00	400.0	-3,589.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
500.0	0.00	0.00	500.0	-3,489.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
600.0	0.00	0.00	600.0	-3,389.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
700.0	0.00	0.00	700.0	-3,289.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
800.0	0.00	0.00	800.0	-3,189.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
900.0	0.00	0.00	900.0	-3,089.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,000.0	0.00	0.00	1,000.0	-2,989.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,100.0	0.00	0.00	1,100.0	-2,889.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,200.0	0.00	0.00	1,200.0	-2,789.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,300.0	0.00	0.00	1,300.0	-2,689.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,400.0	0.00	0.00	1,400.0	-2,589.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,500.0	0.00	0.00	1,500.0	-2,489.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,600.0	0.00	0.00	1,600.0	-2,389.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,700.0	0.00	0.00	1,700.0	-2,289.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,800.0	0.00	0.00	1,800.0	-2,189.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
1,893.8	0.00	0.00	1,893.8	-2,096.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
RUSTLER DOL.											
1,900.0	0.00	0.00	1,900.0	-2,089.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
2,000.0	0.00	0.00	2,000.0	-1,989.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
2,100.0	0.00	0.00	2,100.0	-1,889.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
2,174.8	0.00	0.00	2,174.8	-1,815.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40	
SALADO SALT											



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3989.8usft (McVay 8)
Site:	Butter Cup 36 State Com	MD Reference:	KB = 19 @ 3989.8usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
2,200.0	0.00	0.00	2,200.0	-1,789.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2,300.0	0.00	0.00	2,300.0	-1,689.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2,400.0	0.00	0.00	2,400.0	-1,589.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2,500.0	0.00	0.00	2,500.0	-1,489.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2,600.0	0.00	0.00	2,600.0	-1,389.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2,700.0	0.00	0.00	2,700.0	-1,289.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2,800.0	0.00	0.00	2,800.0	-1,189.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2,900.0	0.00	0.00	2,900.0	-1,089.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,000.0	0.00	0.00	3,000.0	-989.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,100.0	0.00	0.00	3,100.0	-889.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,200.0	0.00	0.00	3,200.0	-789.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,300.0	0.00	0.00	3,300.0	-689.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,344.8	0.00	0.00	3,344.8	-645.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
BASE SALT										
3,400.0	0.00	0.00	3,400.0	-589.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,449.8	0.00	0.00	3,449.8	-540.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
YATES SS										
3,500.0	0.00	0.00	3,500.0	-489.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,600.0	0.00	0.00	3,600.0	-389.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,700.0	0.00	0.00	3,700.0	-289.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,800.0	0.00	0.00	3,800.0	-189.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3,900.0	0.00	0.00	3,900.0	-89.8	0.0	0.0	0.0	0.0	618,740.20	790,603.40
4,000.0	0.00	0.00	4,000.0	10.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
4,100.0	0.00	0.00	4,100.0	110.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
4,200.0	0.00	0.00	4,200.0	210.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
4,300.0	0.00	0.00	4,300.0	310.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
4,400.0	0.00	0.00	4,400.0	410.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.		Local Co-ordinate Reference:				Well #1H				
Project: Lea County (NAD83)		TVD Reference:				KB = 19 @ 3989.8usft (McVay 8)				
Site: Butter Cup 36 State Com		MD Reference:				KB = 19 @ 3989.8usft (McVay 8)				
Well: #1H		North Reference:				Grid				
Wellbore: OH		Survey Calculation Method:				Minimum Curvature				
Design: Plan #2		Database:				EDM 5000.1 Single User Db				
Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDS (usft)	N/S (usft)	E/W (usft)	V: Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
4,500.0	0.00	0.00	4,500.0	510.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
4,600.0	0.00	0.00	4,600.0	610.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
4,700.0	0.00	0.00	4,700.0	710.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
4,724.8	0.00	0.00	4,724.8	735.0	0.0	0.0	0.0	0.00	618,740.20	790,603.40
QUEEN SS.										
4,800.0	0.00	0.00	4,800.0	810.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
4,900.0	0.00	0.00	4,900.0	910.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,000.0	0.00	0.00	5,000.0	1,010.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,100.0	0.00	0.00	5,100.0	1,110.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,200.0	0.00	0.00	5,200.0	1,210.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,300.0	0.00	0.00	5,300.0	1,310.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,304.8	0.00	0.00	5,304.8	1,315.0	0.0	0.0	0.0	0.00	618,740.20	790,603.40
GRAYBURG										
5,400.0	0.00	0.00	5,400.0	1,410.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,500.0	0.00	0.00	5,500.0	1,510.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,600.0	0.00	0.00	5,600.0	1,610.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,700.0	0.00	0.00	5,700.0	1,710.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,800.0	0.00	0.00	5,800.0	1,810.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
5,900.0	0.00	0.00	5,900.0	1,910.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,000.0	0.00	0.00	6,000.0	2,010.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,100.0	0.00	0.00	6,100.0	2,110.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,200.0	0.00	0.00	6,200.0	2,210.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,300.0	0.00	0.00	6,300.0	2,310.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,400.0	0.00	0.00	6,400.0	2,410.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,500.0	0.00	0.00	6,500.0	2,510.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,600.0	0.00	0.00	6,600.0	2,610.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40
6,700.0	0.00	0.00	6,700.0	2,710.2	0.0	0.0	0.0	0.00	618,740.20	790,603.40



Pathfinder
PathfinderX & Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: Butter Cup 36 State Com
Well: #1H
Wellbore: OH
Design: Plan #2

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

Well #1H
KB = 19 @ 3989.8usft (McVay 8)
KB = 19 @ 3989.8usft (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)	EW (usft)	V: Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
6,800.0	0.00	0.00	6,800.0	2,810.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
6,900.0	0.00	0.00	6,900.0	2,910.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
6,990.8	0.00	0.00	6,990.8	3,001.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
DELAWARE										
7,000.0	0.00	0.00	7,000.0	3,010.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,100.0	0.00	0.00	7,100.0	3,110.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,200.0	0.00	0.00	7,200.0	3,210.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,300.0	0.00	0.00	7,300.0	3,310.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,400.0	0.00	0.00	7,400.0	3,410.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,500.0	0.00	0.00	7,500.0	3,510.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,600.0	0.00	0.00	7,600.0	3,610.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,700.0	0.00	0.00	7,700.0	3,710.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,800.0	0.00	0.00	7,800.0	3,810.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,900.0	0.00	0.00	7,900.0	3,910.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
7,979.8	0.00	0.00	7,979.8	3,990.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
1ST BONE SPRING LM.										
8,000.0	0.00	0.00	8,000.0	4,010.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,100.0	0.00	0.00	8,100.0	4,110.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,200.0	0.00	0.00	8,200.0	4,210.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,300.0	0.00	0.00	8,300.0	4,310.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,400.0	0.00	0.00	8,400.0	4,410.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,500.0	0.00	0.00	8,500.0	4,510.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,600.0	0.00	0.00	8,600.0	4,610.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,700.0	0.00	0.00	8,700.0	4,710.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,800.0	0.00	0.00	8,800.0	4,810.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
8,900.0	0.00	0.00	8,900.0	4,910.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,000.0	0.00	0.00	9,000.0	5,010.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Well #1H	Local Co-ordinate Reference:
Project:	Lea County (NAD83)	KB = 19 @ 3989 Buft (McVay 8)	TVD Reference:
Site:	Butter Cup 36 State Com	KB = 19 @ 3989 Buft (McVay 8)	MD Reference:
Well:	#1H	Grid	North Reference:
Wellbore:	OH	Minimum Curvature	Survey Calculation Method:
Design:	Plan #2	EDM 5000.1 Single User Db	Database:

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
9,100.0	0.00	0.00	9,100.0	5,110.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,200.0	0.00	0.00	9,200.0	5,210.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,300.0	0.00	0.00	9,300.0	5,310.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,324.8	0.00	0.00	9,324.8	5,335.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
1ST BONE SPRING SS.										
9,400.0	0.00	0.00	9,400.0	5,410.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,500.0	0.00	0.00	9,500.0	5,510.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,524.8	0.00	0.00	9,524.8	5,535.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2ND BONE SPRING LM										
9,600.0	0.00	0.00	9,600.0	5,610.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,700.0	0.00	0.00	9,700.0	5,710.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,800.0	0.00	0.00	9,800.0	5,810.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
9,864.8	0.00	0.00	9,864.8	5,875.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
2ND BONE SPRING SS										
9,900.0	0.00	0.00	9,900.0	5,910.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
10,000.0	0.00	0.00	10,000.0	6,010.2	0.0	0.0	0.0	0.0	618,740.20	790,603.40
10,004.8	0.00	0.00	10,004.8	6,015.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
3rd Bone Spring Lime										
10,011.8	0.00	0.00	10,011.8	6,022.0	0.0	0.0	0.0	0.0	618,740.20	790,603.40
10,050.0	3.82	89.49	10,050.0	6,060.2	0.0	1.3	1.3	10.00	618,740.21	790,604.67
10,100.0	8.82	89.49	10,099.7	6,109.9	0.1	6.8	6.8	10.00	618,740.26	790,610.18
10,150.0	13.82	89.49	10,148.7	6,158.9	0.1	16.6	16.6	10.00	618,740.35	790,619.99
10,200.0	18.82	89.49	10,196.6	6,208.8	0.3	30.6	30.6	10.00	618,740.47	790,634.03
10,250.0	23.82	89.49	10,243.2	6,253.4	0.4	48.8	48.8	10.00	618,740.63	790,652.20
10,300.0	28.82	89.49	10,288.0	6,298.2	0.6	71.0	71.0	10.00	618,740.83	790,674.36
10,350.0	33.82	89.49	10,330.7	6,340.9	0.9	96.9	97.0	10.00	618,741.06	790,700.35
10,400.0	38.82	89.49	10,371.0	6,381.2	1.1	126.6	126.6	10.00	618,741.32	790,729.95
10,450.0	43.82	89.49	10,408.5	6,418.7	1.4	159.6	159.6	10.00	618,741.61	790,762.95



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Well #1H
Project:	Lea County (NAD83)	KB = 19 @ 3989 Rust (McVay 8)
Site:	Butler Cup 36 State Com	KB = 19 @ 3989 Rust (McVay 8)
Well:	#1H	Grid
Wellbore:	OH	Minimum Curvature
Design:	Plan #2	EDM 5000.1 Single User Db
Local Co-ordinate Reference:		
TVD Reference:		
MD Reference:		
North Reference:		
Survey Calculation Method:		
Database:		

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
10,473.0	46.12	89.49	10,424.8	6,435.0	1.6	175.8	175.8	10.00	618,741.76	790,779.22
3rd Bone Spring Sand										
10,500.0	48.82	89.49	10,443.0	6,453.2	1.7	195.7	195.7	10.00	618,741.93	790,799.10
10,550.0	53.82	89.49	10,474.3	6,484.5	2.1	234.7	234.7	10.00	618,742.28	790,838.12
10,600.0	58.82	89.49	10,502.0	6,512.2	2.4	276.3	276.3	10.00	618,742.65	790,879.71
10,650.0	63.82	89.49	10,526.0	6,536.2	2.8	320.2	320.2	10.00	618,743.04	790,923.56
10,700.0	68.82	89.49	10,546.1	6,556.3	3.2	365.9	365.9	10.00	618,743.44	790,969.33
10,750.0	73.82	89.49	10,562.1	6,572.3	3.7	413.3	413.3	10.00	618,743.86	791,016.68
10,800.0	78.82	89.49	10,573.9	6,584.1	4.1	461.8	461.9	10.00	618,744.29	791,065.25
10,850.0	83.82	89.49	10,581.4	6,591.6	4.5	511.3	511.3	10.00	618,744.73	791,114.66
10,900.0	88.82	89.49	10,584.6	6,594.8	5.0	561.1	561.2	10.00	618,745.17	791,164.54
10,906.8	89.50	89.49	10,584.7	6,594.9	5.0	567.9	567.9	10.00	618,745.23	791,171.32
11,000.0	89.50	89.49	10,585.6	6,595.8	5.9	661.1	661.2	0.00	618,746.06	791,264.53
11,100.0	89.50	89.49	10,586.4	6,596.6	6.7	761.1	761.2	0.00	618,746.94	791,364.52
11,200.0	89.50	89.49	10,587.3	6,597.5	7.6	861.1	861.1	0.00	618,747.83	791,464.51
11,300.0	89.50	89.49	10,588.2	6,598.4	8.5	961.1	961.1	0.00	618,748.72	791,564.51
11,400.0	89.50	89.49	10,589.1	6,599.3	9.4	1,061.1	1,061.1	0.00	618,749.60	791,664.50
11,500.0	89.50	89.49	10,589.9	6,600.1	10.3	1,161.1	1,161.1	0.00	618,750.49	791,764.49
11,600.0	89.50	89.49	10,590.8	6,601.0	11.2	1,261.1	1,261.1	0.00	618,751.37	791,864.48
11,700.0	89.50	89.49	10,591.7	6,601.9	12.1	1,361.1	1,361.1	0.00	618,752.26	791,964.47
11,800.0	89.50	89.49	10,592.6	6,602.8	12.9	1,461.1	1,461.1	0.00	618,753.15	792,064.47
11,900.0	89.50	89.49	10,593.4	6,603.6	13.8	1,561.1	1,561.1	0.00	618,754.03	792,164.46
12,000.0	89.50	89.49	10,594.3	6,604.5	14.7	1,661.1	1,661.1	0.00	618,754.92	792,264.45
12,100.0	89.50	89.49	10,595.2	6,605.4	15.6	1,761.0	1,761.1	0.00	618,755.80	792,364.44
12,200.0	89.50	89.49	10,596.1	6,606.3	16.5	1,861.0	1,861.1	0.00	618,756.69	792,464.44
12,300.0	89.50	89.49	10,596.9	6,607.1	17.4	1,961.0	1,961.1	0.00	618,757.58	792,564.43
12,400.0	89.50	89.49	10,597.8	6,608.0	18.3	2,061.0	2,061.1	0.00	618,758.46	792,664.42



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 19 @ 3989.8usft (McVay 8)
Site:	Butter Cup 36 State Com	MD Reference:	KB = 19 @ 3989.8usft (McVay 8)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	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	89.50	89.49	10,598.7	6,608.9	19.1	2,161.0	2,161.1	0.00	618,759.35	792,764.41
12,600.0	89.50	89.49	10,599.6	6,609.8	20.0	2,261.0	2,261.1	0.00	618,760.23	792,864.40
12,700.0	89.50	89.49	10,600.4	6,610.6	20.9	2,361.0	2,361.1	0.00	618,761.12	792,964.40
12,800.0	89.50	89.49	10,601.3	6,611.5	21.8	2,461.0	2,461.1	0.00	618,762.00	793,064.39
12,900.0	89.50	89.49	10,602.2	6,612.4	22.7	2,561.0	2,561.1	0.00	618,762.89	793,164.38
13,000.0	89.50	89.49	10,603.1	6,613.3	23.6	2,661.0	2,661.1	0.00	618,763.78	793,264.37
13,100.0	89.50	89.49	10,603.9	6,614.1	24.5	2,761.0	2,761.1	0.00	618,764.66	793,364.37
13,200.0	89.50	89.49	10,604.8	6,615.0	25.3	2,861.0	2,861.1	0.00	618,765.55	793,464.36
13,300.0	89.50	89.49	10,605.7	6,615.9	26.2	2,961.0	2,961.1	0.00	618,766.43	793,564.35
13,400.0	89.50	89.49	10,606.6	6,616.8	27.1	3,060.9	3,061.1	0.00	618,767.32	793,664.34
13,500.0	89.50	89.49	10,607.4	6,617.6	28.0	3,160.9	3,161.1	0.00	618,768.21	793,764.33
13,600.0	89.50	89.49	10,608.3	6,618.5	28.9	3,260.9	3,261.1	0.00	618,769.09	793,864.33
13,700.0	89.50	89.49	10,609.2	6,619.4	29.8	3,360.9	3,361.1	0.00	618,769.98	793,964.32
13,800.0	89.50	89.49	10,610.0	6,620.2	30.7	3,460.9	3,461.0	0.00	618,770.86	794,064.31
13,900.0	89.50	89.49	10,610.9	6,621.1	31.6	3,560.9	3,561.0	0.00	618,771.75	794,164.30
14,000.0	89.50	89.49	10,611.8	6,622.0	32.4	3,660.9	3,661.0	0.00	618,772.64	794,264.30
14,100.0	89.50	89.49	10,612.7	6,622.9	33.3	3,760.9	3,761.0	0.00	618,773.52	794,364.29
14,200.0	89.50	89.49	10,613.5	6,623.7	34.2	3,860.9	3,861.0	0.00	618,774.41	794,464.28
14,300.0	89.50	89.49	10,614.4	6,624.6	35.1	3,960.9	3,961.0	0.00	618,775.29	794,564.27
14,400.0	89.50	89.49	10,615.3	6,625.5	36.0	4,060.9	4,061.0	0.00	618,776.18	794,664.26
14,500.0	89.50	89.49	10,616.2	6,626.4	36.9	4,160.9	4,161.0	0.00	618,777.07	794,764.26
14,600.0	89.50	89.49	10,617.0	6,627.2	37.8	4,260.8	4,261.0	0.00	618,777.95	794,864.25
14,700.0	89.50	89.49	10,617.9	6,628.1	38.6	4,360.8	4,361.0	0.00	618,778.84	794,964.24
14,800.0	89.50	89.49	10,618.8	6,629.0	39.5	4,460.8	4,461.0	0.00	618,779.72	795,064.23
14,900.0	89.50	89.49	10,619.7	6,629.9	40.4	4,560.8	4,561.0	0.00	618,780.61	795,164.23
15,000.0	89.50	89.49	10,620.5	6,630.7	41.3	4,660.8	4,661.0	0.00	618,781.50	795,264.22
15,100.0	89.50	89.49	10,621.4	6,631.6	42.2	4,760.8	4,761.0	0.00	618,782.38	795,364.21



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Well #1H	Local Co-ordinate Reference:
Project:	Lea County (NAD83)	KB = 19 @ 3989.8usft (McVay 8)	TVD Reference:
Site:	Butter Cup 36 State Com	KB = 19 @ 3989.8usft (McVay 8)	MD Reference:
Well:	#1H	Grid	North Reference:
Wellbore:	OH	Minimum Curvature	Survey Calculation Method:
Design:	Plan #2	EDM 5000.1 Single User Db	Database:

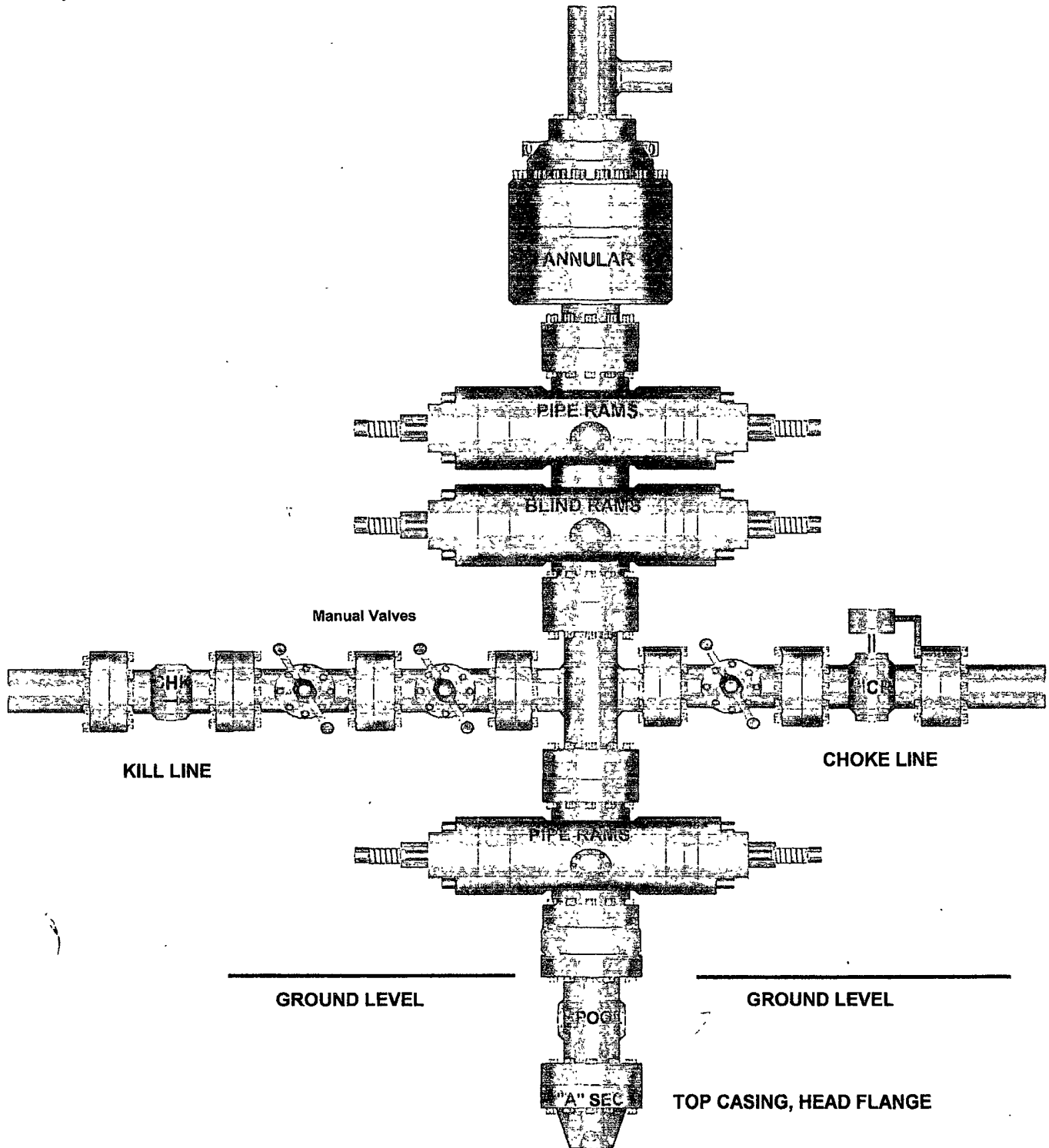
Planned Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	Easting (usft)
15,200.0	89.50	89.49	10,622.3	6,632.5	43.1	4,860.8	4,861.0	0.00	618,783.27
15,300.0	89.50	89.49	10,623.2	6,633.4	44.0	4,960.8	4,961.0	0.00	618,784.15
15,400.0	89.50	89.49	10,624.0	6,634.2	44.8	5,060.8	5,061.0	0.00	618,785.04
15,485.8	89.50	89.49	10,624.8	6,635.0	45.6	5,146.6	5,146.8	0.00	618,785.80
PBHL(Butter Cup 36 State #1H)									
									795,464.20
									795,564.19
									795,664.19
									795,750.00

Formations				Dip		Dip		Lithology	
Measured Depth (usft)	Vertical Depth (usft)	Name		Direction (°)		Direction (°)			
9,524.8	9,524.8	2ND BONE SPRING LM							
9,864.8	9,864.8	2ND BONE SPRING SS							
7,979.8	7,979.8	1ST BONE SPRING LM.							
1,893.8	1,893.8	RUSTLER DOL.							
6,990.8	6,990.8	DELAWARE							
2,174.8	2,174.8	SALADO SALT							
24.8	24.8	QUATERNARY							
10,473.0	10,424.8	3rd Bone Spring Sand							
10,004.8	10,004.8	3rd Bone Spring Lime							
3,344.8	3,344.8	BASE SALT							
4,724.8	4,724.8	QUEEN SS.							
5,304.8	5,304.8	GRAYBURG							
9,324.8	9,324.8	1ST BONE SPRING SS.							
3,449.8	3,449.8	YATES SS							

Checked By: _____ Approved By: _____

Date: _____

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



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

