

Results of Directional Survey

API number:	30-025-40676		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	IRONHOUSE 19 STATE COM # 1H

surface	ULSTR:	N	19	T	18S	R	35E
				200	FSL	1800	FWL

BH Loc	ULSTR:	C	19	T	18S	R	35E
14214	MD	9431.3	TVD	332	FNL	1772	FWL
				4948	FSL		

Top Perf/OH	ULSTR:	N	19	T	18S	R	35E
9934	MD	9762.3	TVD	702	FSL	1719	FWL

Bot Perf/OH	ULSTR:	C	19	T	18S	R	35E
14152	MD	9442.7	TVD	393	FNL	1766	FWL
				4887	FSL		

	MD	N/S	E/W	VD
	9904	475.10	-78.30	9749.1
TOP PERFS/OH	9934	501.91	-80.55	9762.32
	9936	503.70	-80.70	9763.20
	14134	4669.40	-36.30	9446.00
BOT PERFS/OH	14152	4687.00	-34.50	9442.69
	14214	4747.60	-28.30	9431.30

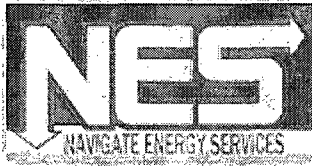
NEXT TO LAST	14134	4669.40	-36.30	9446.00
LAST READING	14214	4747.60	-28.30	9431.30
TD	14214	4747.60	-28.30	9431.30

Surface Location	200	FS	1800	FW
Projected BHL	4948	FS	1772	FW
Location of				
Top Perfs/OH	702	FS	1719	FW
Bottom Perfs/OH	4887	FS	1766	FW

SUMMARY of Subsurface Locations

Surface Location	N-19-18S-35E	200	FS	1800	FW	Vert. Depth
Top Perfs/OH	N-19-18S-35E	702	FS	1719	FW	9762.32
Bottom Perfs/OH	C-19-18S-35E	4887	FS	1766	FW	9442.69
Projected TD	C-19-18S-35E	4948	FS	1772	FW	9431.30

APR 23 2013



HOBBS OCD

FEB 01 2013

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State of New Mexico
County of Lea

SUR: N-19-18s-35e, 200/S & 1800/W
BHL: C-19-18s-35e, 4948/S & 1772/W
API # 30-025-40676

I, **Hunter Arcement**, certify that; I am employed by Navigate Energy Services, LLC.; that I did on the day(s) of **10/12/12** through **10/27/2012** conduct or supervise the taking of a **MWD** survey from a depth of **1,965** feet to a depth of **10,629** feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Navigate Energy Services, LLC.; that I am authorized and qualified to make this report; that the survey was conducted at the request of **Devon Energy** for the **Iron House 19 State Com 1H** Well API No. **3002540676** in **Lea county, New Mexico** ; and that I have reviewed this report and find it conforms to the principles and procedures as set forth by Navigate Energy Services, LLC.

A handwritten signature in black ink, appearing to read "Hunter Arcement", is written over a horizontal line.

Hunter Arcement
Operations Manager- Houston



**Corporate Headquarters
Devon Energy Corporation
333 W. Sheridan Avenue
Oklahoma City, OK 73102-5010
Tel: 405-235-3611
Date: October 15, 2012**

Attention: Survey Processing

**Re: Devon Energy
Iron House 19 State Com 1H
Lea County, New Mexico
API No. 300254676**

Enclosed, please find the original and one copy of the survey performed on the referenced well by Navigate Energy Services, LLC (NES). Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Original Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
David Hofstra Service Technician	Original Hole	1,965 to 10,629ft	10/12 – 10/27/2012	Steering Tool (MWD)

If any other information is required please contact the undersigned at the letterhead address and phone number.

Hunter Arcement
Operations Manager- Houston

MWD SURVEY REPORT



Job Number : WNM-1939-S
 Report Date : October 15th 2012
 Operator : Devon Energy
 Lease / Well : Iron House 19 State Com 1H
 Location : Lea New Mexico
 Field :
 Contractor / Rig : Devon Energy McVay 8
 Directional Company : Navigate Energy Services
 MWD Field Rep. : David Hofstra
 Tie In Survey Reference :
 Calculation Method : MINIMUM CURVATURE
 API Number : 3002540676

Target +N / -S =
 Target +E / -W =
 Target TVD =
 Magnetic Declination +E / -W =
 Grid Convergence +E / -W =
 Total Correction +E / -W =
 North Reference = Grid
 RKB Height = 18.00'
 Ground Level Elevation = 3952'
 Vertical Section Azimuth =

Comments :

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	(deg/100')
0	0.00	0.0	0.0		0	0.00'	0.00'	0.00'			
T	1965.50	0.4	209.5	1966'	1965.48'	-5.97'	-5.97'	-3.38'	6.86'	209.50°	0.02°
1	2058.30	0.3	183.8	93'	2058.28'	-6.50'	-6.50'	-3.55'	7.40'	208.68°	0.20°
2	2151.40	0.3	167.0	93'	2151.38'	-6.98'	-6.98'	-3.52'	7.81'	206.74°	0.09°
3	2559.10	0.1	110.6	408'	2559.08'	-8.14'	-8.14'	-2.94'	8.66'	199.87°	0.06°
4	2718.70	0.3	83.5	160'	2718.68'	-8.14'	-8.14'	-2.40'	8.49'	196.40°	0.14°
5	2909.20	0.8	68.8	191'	2909.17'	-7.61'	-7.61'	-0.66'	7.63'	184.97°	0.27°
6	3003.40	1.1	70.8	94'	3003.36'	-7.07'	-7.07'	0.81'	7.12'	173.50°	0.32°
7	3117.00	1.4	70.5	114'	3116.93'	-6.25'	-6.25'	3.14'	7.00'	153.29°	0.26°
8	3391.30	1.3	64.8	274'	3391.15'	-3.81'	-3.81'	9.12'	9.88'	112.65°	0.06°
9	3611.50	1.0	81.7	220'	3611.31'	-2.46'	-2.46'	13.28'	13.51'	100.51°	0.20°
10	3800.70	0.6	78.4	189'	3800.49'	-2.03'	-2.03'	15.88'	16.01'	97.27°	0.21°
11	3990.00	0.4	119.2	189'	3989.78'	-2.15'	-2.15'	17.43'	17.56'	97.03°	0.21°
12	4085.20	0.4	110.3	95'	4084.98'	-2.43'	-2.43'	18.03'	18.20'	97.67°	0.07°
13	4558.20	0.2	98.6	473'	4557.97'	-3.12'	-3.12'	20.40'	20.64'	98.71°	0.04°
14	5032.20	0.5	8.0	474'	5031.97'	-1.20'	-1.20'	21.50'	21.54'	93.19°	0.11°
15	5222.00	0.7	7.9	190'	5221.76'	0.77'	0.77'	21.78'	21.79'	87.98°	0.11°
16	5411.60	0.6	12.4	190'	5411.34'	2.89'	2.89'	22.15'	22.34'	82.58°	0.06°
17	5530.10	0.6	353.7	119'	5529.84'	4.11'	4.11'	22.22'	22.59'	79.52°	0.16°
18	5694.10	0.5	20.2	164'	5693.83'	5.63'	5.63'	22.37'	23.07'	75.86°	0.16°
19	5886.20	0.4	22.0	192'	5885.92'	7.04'	7.04'	22.91'	23.97'	72.91°	0.05°
20	5979.50	0.6	10.4	93'	5979.22'	7.82'	7.82'	23.12'	24.41'	71.30°	0.24°
21	6009.00	0.7	350.5	30'	6008.72'	8.15'	8.15'	23.12'	24.51'	70.57°	0.83°
22	6169.20	0.9	357.0	160'	6168.90'	10.38'	10.38'	22.89'	25.13'	65.62°	0.14°
23	6484.50	0.9	33.7	315'	6484.17'	14.91'	14.91'	24.13'	28.37'	58.29°	0.18°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates +N / -S +E / -W		Closure Distance Azimuth		Dogleg Severity (deg/100 ')
24	6547.90	1.1	17.1	63'	6547.56'	15.90'	15.90'	24.59'	29.28'	57.11°	0.55°
25	6845.50	1.6	19.8	298'	6845.07'	22.54'	22.54'	26.84'	35.05'	49.97°	0.17°
26	7212.40	1.8	24.8	367'	7211.81'	32.59'	32.59'	30.99'	44.97'	43.55°	0.07°
27	7398.80	1.6	29.2	186'	7398.13'	37.52'	37.52'	33.49'	50.29'	41.75°	0.13°
28	7458.40	2.0	31.1	60'	7457.70'	39.14'	39.14'	34.43'	52.13'	41.34°	0.68°
29	7463.70	1.9	36.3	5'	7463.00'	39.29'	39.29'	34.53'	52.31'	41.31°	3.83°
30	7589.40	1.8	45.7	126'	7588.63'	42.35'	42.35'	37.18'	56.35'	41.28°	0.25°
31	7683.00	1.6	41.9	94'	7682.19'	44.35'	44.35'	39.10'	59.12'	41.40°	0.25°
32	7933.50	1.3	25.4	251'	7932.61'	49.52'	49.52'	42.66'	65.36'	40.74°	0.20°
33	8061.50	1.4	346.9	128'	8060.58'	52.35'	52.35'	42.92'	67.70'	39.35°	0.70°
34	8156.30	1.5	323.6	95'	8155.35'	54.48'	54.48'	41.92'	68.74'	37.58°	0.63°
35	8345.10	1.6	350.7	189'	8344.08'	59.07'	59.07'	40.03'	71.36'	34.13°	0.39°
36	8405.50	1.4	355.4	60'	8404.46'	60.64'	60.64'	39.84'	72.55'	33.30°	0.39°
37	8659.10	2.2	333.1	254'	8657.94'	68.07'	68.07'	37.39'	77.66'	28.78°	0.41°
38	8784.00	3.6	334.4	125'	8782.67'	73.74'	73.74'	34.61'	81.46'	25.14°	1.12°
39	8817.00	3.3	330.4	33'	8815.61'	75.50'	75.50'	33.69'	82.68'	24.05°	1.17°
40	8913.60	2.8	336.7	97'	8912.08'	80.09'	80.09'	31.38'	86.02'	21.40°	0.62°
41	9010.10	2.0	324.2	97'	9008.49'	83.62'	83.62'	29.47'	88.66'	19.41°	0.99°
42	9104.10	1.5	317.6	94'	9102.45'	85.85'	85.85'	27.68'	90.21'	17.87°	0.57°
43	9157.50	1.9	323.8	53'	9155.83'	87.09'	87.09'	26.68'	91.08'	17.04°	0.82°
44	9292.00	1.6	324.1	135'	9290.26'	90.41'	90.41'	24.27'	93.61'	15.02°	0.22°
45	9387.40	1.1	325.9	95'	9385.64'	92.24'	92.24'	22.97'	95.06'	13.98°	0.53°
46	9482.50	1.6	312.1	95'	9480.71'	93.89'	93.89'	21.47'	96.31'	12.88°	0.62°
47	9577.30	1.9	347.8	95'	9575.47'	96.31'	96.31'	20.16'	98.40'	11.82°	1.17°
48	9630.40	1.8	348.6	53'	9628.54'	97.99'	97.99'	19.81'	99.97'	11.43°	0.19°
49	9760.90'	2.20°	343.10°	131'	9758.96'	102.40'	102.40'	18.68'	104.09'	10.34°	0.34°
50	9879.90'	2.40°	338.40°	119'	9877.86'	106.90'	106.90'	17.09'	108.26'	9.09°	0.23°
51	10144.90'	2.60°	0.20°	265'	10142.62'	118.07'	118.07'	15.07'	119.03'	7.28°	0.36°
52	10235.80'	2.80°	357.80°	91'	10233.42'	122.35'	122.35'	14.99'	123.26'	6.99°	0.25°
53	10281.20'	3.50°	359.80°	45'	10278.75'	124.84'	124.84'	14.95'	125.73'	6.83°	1.56°
54	10395.90'	3.50°	4.00°	115'	10393.23'	131.84'	131.84'	15.18'	132.71'	6.57°	0.22°
55	10428.80'	3.40°	4.70°	33'	10426.08'	133.81'	133.81'	15.33'	134.68'	6.54°	0.33°
56	10522.80'	3.50°	2.40°	94'	10519.90'	139.45'	139.45'	15.68'	140.33'	6.41°	0.18°
57	10525.70'	3.20°	6.90°	3'	10522.80'	139.62'	139.62'	15.69'	140.50'	6.41°	13.75°
58	10629.80'	3.40°	7.80°	104'	10626.73'	145.57'	145.57'	16.46'	146.49'	6.45°	0.20°



devon

Devon Energy, Inc.

Lea County (NAD83)

Ironhouse 19 State Com

#1H

ST1

Design: ST1

PathfinderX & Y Report

26 November, 2012

HOBS OCD
FEB 01 2013
RECEIVED

SUR: N-19-18s-35e, 200/S & 1800/W
BHL: C-19-18s-35e, 4948/S & 1772/W
API # 30-025-40676

PATHFINDER®

A Schlumberger Company



PROJECT DETAILS: Lea 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



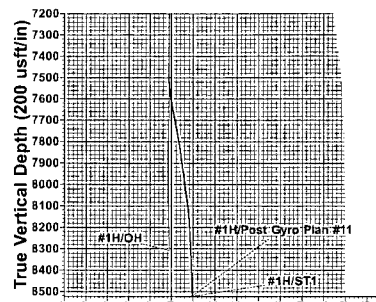
Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.97°

Magnetic Field
Strength: 48783.8snT
Dip Angle: 60.63°
Date: 11/4/2012
Model: IGRF2010

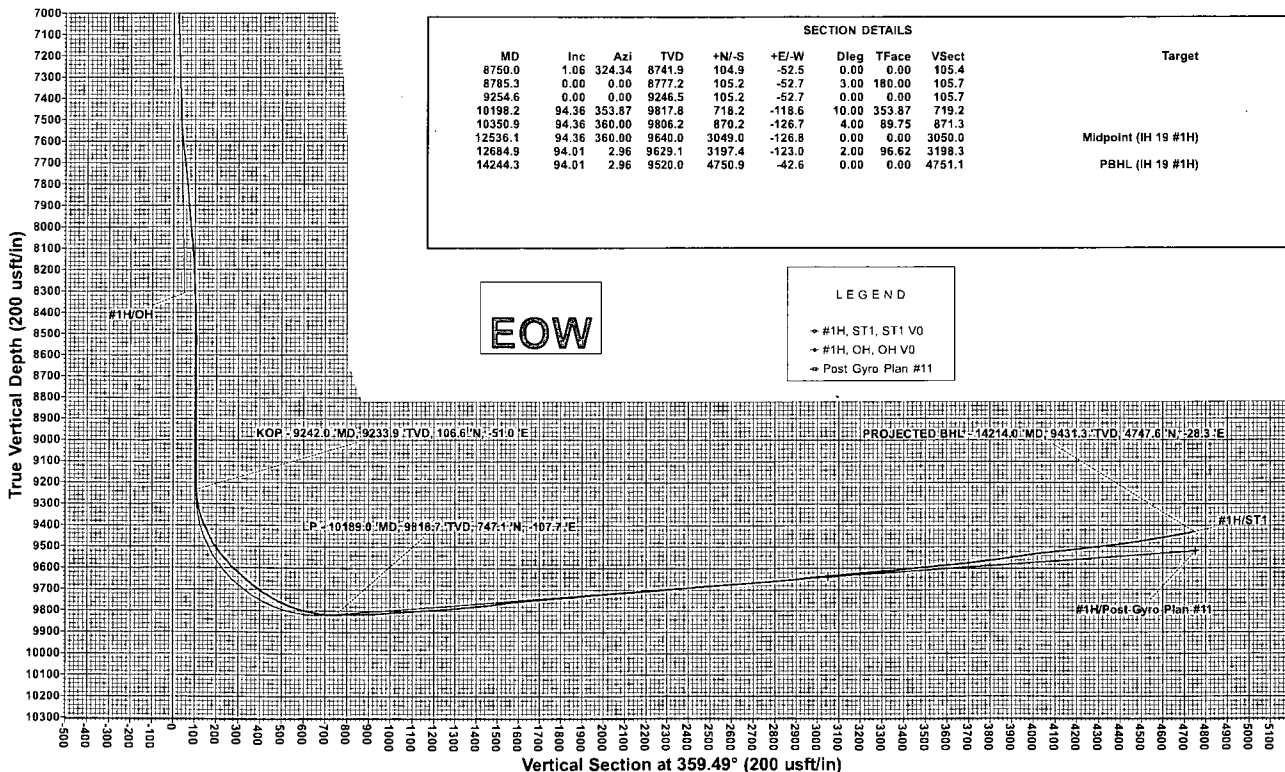


A Schlumberger Company
West(-)/East(+) (200 usft/in)

Project: Lea County (NAD83)
Site: Ironhouse 19 State Com
Well: #1H
Wellbore: ST1
Plan: Post Gyro Plan #11 (#1H/ST1)



Vertical Section at 300.00° (200 usft/in)



EOW

LEGEND

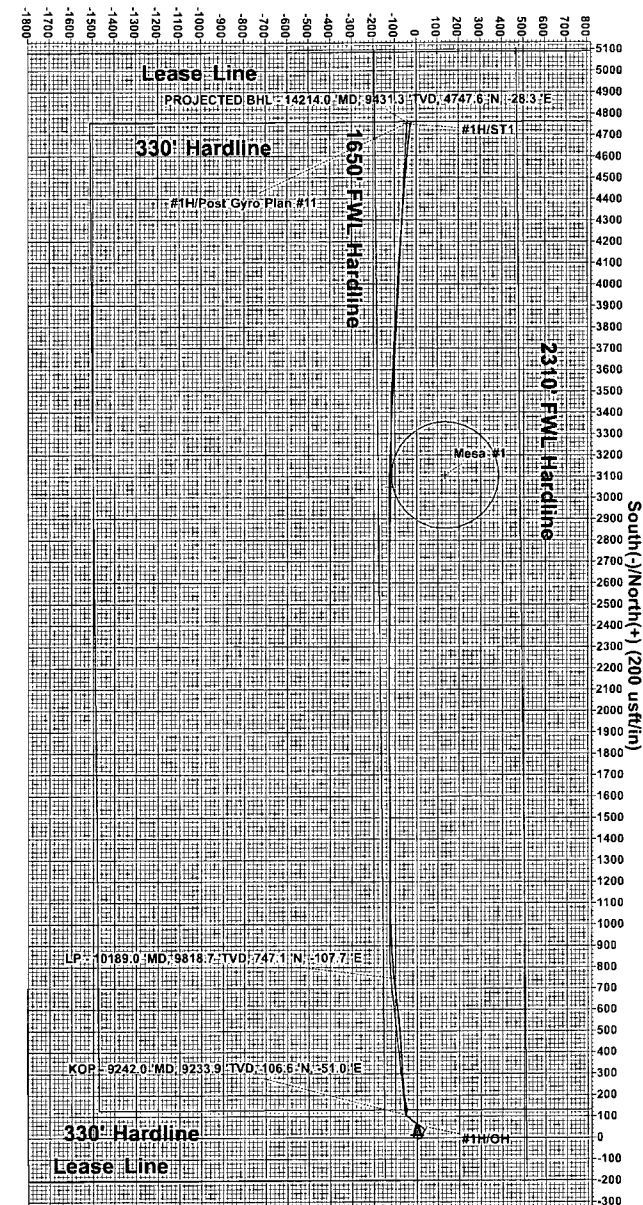
- #1H, ST1, ST1 V0
- #1H, OH, OH V0
- Post Gyro Plan #11

Vertical Section at 359.49° (200 usft/in)

WELL DETAILS: #1H						
Ground Elevation: 3951.6						
RKB Elevation: KB = 15' @ 3969.6usft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	629074.700	797786.700	32.726592	-103.499415	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Mesa #1	0.0	3104.6	134.4	632179.300	797921.100	Circle (Radius: 250.0)
PBHL (IH 19 #1H)	9520.0	4750.9	-42.6	633825.600	797744.100	Point
Midpoint (IH 19 #1H)	9640.0	3049.0	-126.8	632123.686	797659.888	Point

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VFace	Target
8750.0	1.06	324.34	8741.9	104.9	-52.5	0.00	0.00	105.4	
8785.3	0.00	0.00	8777.2	105.2	-52.7	3.00	180.00	105.7	
9254.6	0.00	0.00	9246.5	105.2	-52.7	0.00	0.00	105.7	
10196.2	94.36	353.87	9817.8	718.2	-118.6	10.00	353.87	719.2	
10350.9	94.36	360.00	9806.2	870.2	-126.7	4.00	89.75	871.3	
12536.1	94.36	360.00	9640.0	3049.0	-126.8	0.00	0.00	3050.0	Midpoint (IH 19 #1H)
12684.9	94.01	2.96	9629.1	3197.4	-123.0	2.00	96.62	3198.3	
14244.3	94.01	2.96	9520.0	4750.9	-42.6	0.00	0.00	4751.1	PBHL (IH 19 #1H)



Plan: Post Gyro Plan #11 (#1H/ST1)
Created By: Sam Biffle Date: 14:38, November 26 2012
Checked: _____ Date: _____

Lea County, NM
Ironhouse 19 State Com
Well: #1H
Date: 11/4/2012
Page 2 of 2



Pathfinder PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	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	Ironhouse 19 State Com		
Site Position:		Northing:	629,074.700 usft
From:	Map	Easting:	797,786.700 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.726592
		Longitude:	-103.499415
		Grid Convergence:	0.45 °

Well	#1H		
Well Position	+N/-S	0.0 usft	Northing: 629,074.700 usft
	+E/-W	0.0 usft	Easting: 797,786.700 usft
Position Uncertainty		0.0 usft	Wellhead Elevation: usft
			Latitude: 32.726592
			Longitude: -103.499415
			Ground Level: 3,951.6 usft

Wellbore	ST1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/4/2012	7.42	60.63	48,784

Design	ST1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 7,500.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.00



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 = 18' @ 3969.6usft (Original Well Elev)
Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	EDM 5000.1 Single User Db

Survey Program	Date	11/26/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,500.0	Gyro #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
7,551.0	14,214.0	MWD #1 (ST1)	Pathfinder	Pathfinder MWD	

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	-3,969.6	0.0	0.0	0.0	0.00	629,074.70	797,786.70
	100.0	0.04	160.30	100.0	-3,869.6	0.0	0.0	0.0	0.04	629,074.67	797,786.71
	200.0	0.11	79.66	200.0	-3,769.6	0.0	0.1	0.0	0.11	629,074.65	797,786.82
	300.0	0.22	57.68	300.0	-3,669.6	0.1	0.4	0.1	0.12	629,074.77	797,787.07
	400.0	0.06	119.87	400.0	-3,569.6	0.1	0.6	0.1	0.20	629,074.85	797,787.28
	500.0	0.16	109.48	500.0	-3,469.6	0.1	0.8	0.1	0.10	629,074.78	797,787.46
	600.0	0.15	128.94	600.0	-3,369.6	-0.1	1.0	-0.1	0.05	629,074.65	797,787.69
	700.0	0.31	111.32	700.0	-3,269.6	-0.2	1.3	-0.2	0.17	629,074.47	797,788.05
	800.0	0.49	126.62	800.0	-3,169.6	-0.6	1.9	-0.6	0.21	629,074.11	797,788.64
	900.0	0.39	131.10	900.0	-3,069.6	-1.1	2.5	-1.1	0.11	629,073.63	797,789.24
	1,000.0	0.27	149.81	1,000.0	-2,969.6	-1.5	2.9	-1.5	0.16	629,073.21	797,789.62
	1,100.0	0.45	208.97	1,100.0	-2,869.6	-2.0	2.8	-2.0	0.39	629,072.66	797,789.54
	1,200.0	0.71	234.53	1,200.0	-2,769.6	-2.7	2.1	-2.7	0.36	629,071.96	797,788.85
	1,300.0	0.55	236.63	1,300.0	-2,669.6	-3.4	1.2	-3.4	0.16	629,071.33	797,787.94
	1,400.0	0.53	233.79	1,400.0	-2,569.6	-3.9	0.5	-3.9	0.03	629,070.80	797,787.17
	1,500.0	0.50	228.79	1,500.0	-2,469.6	-4.5	-0.2	-4.5	0.05	629,070.23	797,786.47
	1,600.0	0.39	226.90	1,600.0	-2,369.6	-5.0	-0.8	-5.0	0.11	629,069.71	797,785.89
	1,700.0	0.27	221.09	1,700.0	-2,269.6	-5.4	-1.2	-5.4	0.12	629,069.30	797,785.49
	1,800.0	0.29	225.59	1,800.0	-2,169.6	-5.8	-1.5	-5.8	0.03	629,068.95	797,785.15
	1,900.0	0.20	216.15	1,900.0	-2,069.6	-6.1	-1.8	-6.1	0.10	629,068.63	797,784.87
	2,000.0	0.14	174.43	2,000.0	-1,969.6	-6.3	-1.9	-6.3	0.13	629,068.37	797,784.78



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	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)	
2,100.0	0.09	173.30	2,100.0	-1,869.6	-6.5	-1.9	-6.5	0.05	629,068.17	797,784.80	
2,200.0	0.16	172.26	2,200.0	-1,769.6	-6.7	-1.9	-6.7	0.07	629,067.95	797,784.83	
2,300.0	0.16	132.08	2,300.0	-1,669.6	-7.0	-1.8	-7.0	0.11	629,067.72	797,784.95	
2,400.0	0.07	77.60	2,400.0	-1,569.6	-7.1	-1.6	-7.1	0.13	629,067.64	797,785.11	
2,500.0	0.07	113.40	2,500.0	-1,469.6	-7.1	-1.5	-7.1	0.04	629,067.63	797,785.23	
2,600.0	0.18	65.16	2,600.0	-1,369.6	-7.0	-1.3	-7.0	0.14	629,067.67	797,785.43	
2,700.0	0.34	84.74	2,700.0	-1,269.6	-6.9	-0.8	-6.9	0.18	629,067.76	797,785.87	
2,800.0	0.38	62.65	2,800.0	-1,169.6	-6.8	-0.2	-6.8	0.14	629,067.94	797,786.46	
2,900.0	0.79	69.90	2,900.0	-1,069.6	-6.4	0.7	-6.4	0.42	629,068.33	797,787.40	
3,000.0	1.12	68.77	2,999.9	-969.7	-5.8	2.3	-5.8	0.33	629,068.92	797,788.96	
3,100.0	1.06	71.39	3,099.9	-869.7	-5.1	4.0	-5.1	0.08	629,069.57	797,790.74	
3,200.0	1.32	69.58	3,199.9	-769.7	-4.4	6.0	-4.4	0.26	629,070.27	797,792.70	
3,300.0	1.27	70.15	3,299.9	-669.7	-3.7	8.1	-3.7	0.05	629,071.05	797,794.82	
3,400.0	1.18	73.04	3,399.9	-569.7	-3.0	10.1	-3.0	0.11	629,071.73	797,796.85	
3,500.0	0.91	69.89	3,499.8	-469.8	-2.4	11.9	-2.4	0.28	629,072.30	797,798.58	
3,600.0	0.86	81.88	3,599.8	-369.8	-2.0	13.4	-2.0	0.19	629,072.68	797,800.07	
3,700.0	0.62	94.45	3,699.8	-269.8	-2.0	14.7	-2.0	0.29	629,072.74	797,801.35	
3,800.0	0.40	90.88	3,799.8	-169.8	-2.0	15.5	-2.0	0.22	629,072.69	797,802.24	
3,900.0	0.41	107.63	3,899.8	-69.8	-2.1	16.2	-2.1	0.12	629,072.58	797,802.93	
4,000.0	0.27	85.63	3,999.8	30.2	-2.2	16.8	-2.2	0.19	629,072.49	797,803.50	
4,100.0	0.28	117.47	4,099.8	130.2	-2.3	17.3	-2.3	0.15	629,072.40	797,803.96	
4,200.0	0.23	90.63	4,199.8	230.2	-2.4	17.7	-2.4	0.13	629,072.28	797,804.37	
4,300.0	0.29	76.93	4,299.8	330.2	-2.4	18.1	-2.4	0.09	629,072.34	797,804.82	
4,400.0	0.39	78.55	4,399.8	430.2	-2.2	18.7	-2.2	0.10	629,072.46	797,805.40	
4,500.0	0.45	70.35	4,499.8	530.2	-2.0	19.4	-2.0	0.08	629,072.66	797,806.10	
4,600.0	0.31	54.18	4,599.8	630.2	-1.7	20.0	-1.7	0.18	629,072.95	797,806.69	
4,700.0	0.41	40.13	4,699.8	730.2	-1.3	20.4	-1.3	0.13	629,073.38	797,807.14	



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	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)	
4,800.0	0.44	68.97	4,799.8	830.2	-0.9	21.0	-0.9	0.21	629,073.79	797,807.73	
4,900.0	0.38	18.47	4,899.8	930.2	-0.5	21.5	-0.5	0.35	629,074.25	797,808.20	
5,000.0	0.58	18.12	4,999.8	1,030.2	0.3	21.8	0.3	0.20	629,075.04	797,808.46	
5,100.0	0.59	18.94	5,099.8	1,130.2	1.3	22.1	1.3	0.01	629,076.01	797,808.78	
5,200.0	0.49	0.39	5,199.8	1,230.2	2.2	22.3	2.2	0.20	629,076.92	797,808.95	
5,300.0	0.60	6.06	5,299.8	1,330.2	3.2	22.3	3.2	0.12	629,077.87	797,809.01	
5,400.0	0.43	8.62	5,399.8	1,430.2	4.1	22.4	4.1	0.17	629,078.76	797,809.12	
5,500.0	0.59	7.38	5,499.8	1,530.2	4.9	22.5	4.9	0.16	629,079.65	797,809.25	
5,600.0	0.47	358.72	5,599.8	1,630.2	5.9	22.6	5.9	0.14	629,080.57	797,809.30	
5,700.0	0.54	15.78	5,699.8	1,730.2	6.7	22.7	6.7	0.17	629,081.43	797,809.42	
5,800.0	0.52	356.70	5,799.8	1,830.2	7.6	22.8	7.6	0.18	629,082.34	797,809.52	
5,900.0	0.48	13.52	5,899.7	1,930.1	8.5	22.9	8.5	0.15	629,083.20	797,809.59	
6,000.0	0.65	357.82	5,999.7	2,030.1	9.5	23.0	9.5	0.23	629,084.17	797,809.67	
6,100.0	0.53	2.39	6,099.7	2,130.1	10.5	23.0	10.5	0.13	629,085.20	797,809.67	
6,200.0	0.77	7.88	6,199.7	2,230.1	11.6	23.1	11.6	0.25	629,086.33	797,809.78	
6,300.0	0.57	7.11	6,299.7	2,330.1	12.8	23.2	12.8	0.20	629,087.49	797,809.93	
6,400.0	0.65	35.80	6,399.7	2,430.1	13.7	23.6	13.7	0.31	629,088.44	797,810.33	
6,500.0	0.99	20.69	6,499.7	2,530.1	15.0	24.3	15.0	0.40	629,089.71	797,810.96	
6,600.0	1.00	19.31	6,599.7	2,630.1	16.6	24.9	16.6	0.03	629,091.34	797,811.56	
6,700.0	1.24	26.36	6,699.7	2,730.1	18.4	25.6	18.4	0.28	629,093.13	797,812.33	
6,800.0	1.45	17.59	6,799.6	2,830.0	20.6	26.5	20.6	0.29	629,095.31	797,813.19	
6,900.0	1.44	24.12	6,899.6	2,930.0	23.0	27.4	23.0	0.16	629,097.66	797,814.09	
7,000.0	1.72	28.31	6,999.6	3,030.0	25.4	28.6	25.4	0.30	629,100.13	797,815.31	
7,100.0	1.44	29.63	7,099.5	3,129.9	27.8	29.9	27.8	0.28	629,102.54	797,816.64	
7,200.0	1.61	33.32	7,199.5	3,229.9	30.1	31.3	30.1	0.20	629,104.81	797,818.04	
7,300.0	1.54	27.86	7,299.5	3,329.9	32.5	32.7	32.5	0.17	629,107.17	797,819.44	
7,400.0	1.60	33.36	7,399.4	3,429.8	34.8	34.1	34.8	0.16	629,109.52	797,820.83	



Pathfinder PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	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)
7,500.0	1.86	35.12	7,499.4	3,529.8	37.3	35.8	37.3	0.27	629,112.02	797,822.53
7,551.0	5.19	324.61	7,550.3	3,580.7	39.9	35.0	39.9	9.59	629,114.58	797,821.67
7,583.0	9.23	309.93	7,582.0	3,612.4	42.7	32.2	42.7	13.78	629,117.41	797,818.87
7,614.0	10.64	308.35	7,612.6	3,643.0	46.1	28.0	46.1	4.63	629,120.78	797,814.71
7,708.0	10.38	305.18	7,705.0	3,735.4	56.3	14.3	56.3	0.67	629,131.04	797,800.99
7,803.0	9.67	303.07	7,798.5	3,828.9	65.6	0.6	65.6	0.84	629,140.33	797,787.31
7,891.0	8.62	302.90	7,885.4	3,915.8	73.2	-11.1	73.2	1.19	629,147.94	797,775.57
7,992.0	7.03	313.01	7,985.5	4,015.9	81.6	-22.0	81.6	2.08	629,156.27	797,764.70
8,087.0	6.77	315.20	8,079.8	4,110.2	89.5	-30.2	89.5	0.39	629,164.21	797,756.50
8,182.0	4.48	312.30	8,174.3	4,204.7	96.0	-36.9	96.0	2.43	629,170.68	797,749.81
8,276.0	3.25	304.66	8,268.1	4,298.5	100.0	-41.8	100.0	1.42	629,174.67	797,744.90
8,371.0	2.55	295.60	8,363.0	4,393.4	102.4	-45.9	102.4	0.88	629,177.11	797,740.78
8,466.0	1.58	292.79	8,457.9	4,488.3	103.8	-49.0	103.8	1.03	629,178.53	797,737.67
8,560.0	0.53	247.35	8,551.9	4,582.3	104.2	-50.6	104.2	1.35	629,178.87	797,736.07
8,655.0	0.62	282.68	8,646.9	4,677.3	104.1	-51.5	104.1	0.38	629,178.81	797,735.17
8,750.0	1.06	324.34	8,741.9	4,772.3	104.9	-52.5	104.9	0.76	629,179.64	797,734.15
8,831.0	0.26	5.21	8,822.9	4,853.3	105.7	-53.0	105.7	1.09	629,180.43	797,733.73
8,926.0	0.44	137.05	8,917.9	4,948.3	105.7	-52.7	105.7	0.68	629,180.37	797,734.00
9,022.0	0.35	124.57	9,013.9	5,044.3	105.2	-52.2	105.2	0.13	629,179.94	797,734.49
9,116.0	0.35	111.47	9,107.9	5,138.3	105.0	-51.7	105.0	0.08	629,179.67	797,735.00
9,169.0	0.26	60.76	9,160.9	5,191.3	105.0	-51.4	105.0	0.52	629,179.67	797,735.25
9,242.0	2.46	11.01	9,233.9	5,264.3	106.6	-51.0	106.6	3.15	629,181.29	797,735.70
KOP - 9242.0 'MD, 9233.9 'TVD, 106.6 'N, -51.0 'E										
9,273.0	6.16	4.95	9,264.8	5,295.2	108.9	-50.7	108.9	12.01	629,183.60	797,735.97
9,305.0	10.29	3.81	9,296.4	5,326.8	113.5	-50.4	113.5	12.92	629,188.16	797,736.31
9,336.0	14.77	3.28	9,326.7	5,357.1	120.2	-50.0	120.2	14.46	629,194.88	797,736.72
9,368.0	18.99	1.26	9,357.3	5,387.7	129.5	-49.6	129.5	13.31	629,204.16	797,737.06



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	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)
9,399.0	21.19	356.19	9,386.4	5,416.8	140.1	-49.9	140.1	9.05	629,214.79	797,736.80
9,431.0	24.01	350.36	9,416.0	5,446.4	152.3	-51.4	152.3	11.25	629,226.99	797,735.33
9,463.0	26.38	348.34	9,444.9	5,475.3	165.7	-53.9	165.7	7.88	629,240.37	797,732.80
9,494.0	29.72	347.90	9,472.3	5,502.7	179.9	-56.9	179.9	10.79	629,254.63	797,729.80
9,526.0	33.68	350.27	9,499.5	5,529.9	196.4	-60.1	196.4	12.97	629,271.14	797,726.63
9,557.0	37.46	353.17	9,524.7	5,555.1	214.3	-62.6	214.3	13.35	629,288.98	797,724.06
9,589.0	39.92	356.07	9,549.7	5,580.1	234.2	-64.5	234.2	9.55	629,308.89	797,722.20
9,620.0	41.59	356.69	9,573.2	5,603.6	254.4	-65.8	254.4	5.54	629,329.09	797,720.92
9,652.0	43.88	357.04	9,596.7	5,627.1	276.1	-67.0	276.1	7.19	629,350.77	797,719.73
9,683.0	46.69	357.13	9,618.5	5,648.9	298.1	-68.1	298.1	9.07	629,372.77	797,718.61
9,715.0	48.28	357.21	9,640.1	5,670.5	321.6	-69.2	321.6	4.97	629,396.32	797,717.45
9,746.0	49.77	357.30	9,660.4	5,690.8	345.0	-70.4	345.0	4.81	629,419.70	797,716.33
9,778.0	51.88	357.04	9,680.6	5,711.0	369.8	-71.6	369.8	6.62	629,444.48	797,715.10
9,810.0	54.34	356.86	9,699.9	5,730.3	395.3	-73.0	395.3	7.70	629,470.03	797,713.74
9,841.0	56.98	356.51	9,717.3	5,747.7	420.9	-74.4	420.9	8.57	629,495.58	797,712.26
9,873.0	59.53	355.90	9,734.2	5,764.6	448.0	-76.2	448.0	8.13	629,522.73	797,710.46
9,904.0	62.78	355.46	9,749.1	5,779.5	475.1	-78.3	475.1	10.56	629,549.81	797,708.41
9,936.0	64.90	355.11	9,763.2	5,793.6	503.7	-80.7	503.7	6.70	629,578.43	797,706.05
9,967.0	67.88	354.58	9,775.6	5,806.0	532.0	-83.2	532.0	9.74	629,606.72	797,703.50
9,999.0	71.75	354.31	9,786.7	5,817.1	561.9	-86.1	561.9	12.12	629,636.60	797,700.59
10,031.0	75.01	353.79	9,795.8	5,826.2	592.4	-89.3	592.4	10.31	629,667.10	797,697.41
10,062.0	77.12	353.08	9,803.3	5,833.7	622.3	-92.7	622.3	7.16	629,696.99	797,693.97
10,094.0	78.88	352.91	9,810.0	5,840.4	653.4	-96.5	653.4	5.52	629,728.05	797,690.15
10,125.0	82.39	353.08	9,815.0	5,845.4	683.7	-100.3	683.7	11.34	629,758.41	797,686.42
10,152.0	86.35	352.73	9,817.7	5,848.1	710.4	-103.6	710.4	14.72	629,785.06	797,683.10
10,189.0	90.40	354.49	9,818.7	5,849.1	747.1	-107.7	747.1	11.93	629,821.81	797,678.99
LP - 10189.0 'MD, 9818.7 'TVD, 747.1 'N, -107.7 'E										



Pathfinder
PathfinderX & Y Report



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Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
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Design:	ST1	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)
10,220.0	91.54	355.81	9,818.2	5,848.6	778.0	-110.3	778.0	5.63	629,852.69	797,676.37
10,252.0	91.71	355.54	9,817.3	5,847.7	809.9	-112.7	809.9	1.00	629,884.59	797,673.96
10,283.0	91.80	355.46	9,816.3	5,846.7	840.8	-115.2	840.8	0.39	629,915.48	797,671.52
10,315.0	91.89	355.37	9,815.3	5,845.7	872.7	-117.7	872.7	0.40	629,947.36	797,668.97
10,346.0	92.59	356.16	9,814.1	5,844.5	903.6	-120.0	903.6	3.40	629,978.25	797,666.68
10,378.0	93.12	357.65	9,812.5	5,842.9	935.5	-121.7	935.5	4.94	630,010.16	797,664.95
10,409.0	93.21	358.71	9,810.8	5,841.2	966.4	-122.7	966.4	3.43	630,041.10	797,663.97
10,441.0	93.30	358.80	9,809.0	5,839.4	998.3	-123.4	998.3	0.40	630,073.04	797,663.28
10,536.0	93.65	359.15	9,803.2	5,833.6	1,093.2	-125.1	1,093.2	0.52	630,167.85	797,661.58
10,630.0	94.00	359.50	9,796.9	5,827.3	1,186.9	-126.2	1,186.9	0.53	630,261.64	797,660.48
10,725.0	94.35	359.85	9,790.0	5,820.4	1,281.7	-126.8	1,281.7	0.52	630,356.38	797,659.94
10,820.0	95.32	359.85	9,782.0	5,812.4	1,376.3	-127.0	1,376.3	1.02	630,451.04	797,659.69
10,914.0	96.55	0.03	9,772.3	5,802.7	1,469.8	-127.1	1,469.8	1.32	630,544.54	797,659.59
11,009.0	96.99	0.03	9,761.1	5,791.5	1,564.2	-127.1	1,564.2	0.46	630,638.87	797,659.64
11,103.0	94.53	359.59	9,751.6	5,782.0	1,657.7	-127.4	1,657.7	2.66	630,732.39	797,659.33
11,198.0	94.70	359.68	9,744.0	5,774.4	1,752.4	-128.0	1,752.4	0.20	630,827.08	797,658.73
11,293.0	94.97	359.94	9,736.0	5,766.4	1,847.0	-128.3	1,847.0	0.39	630,921.74	797,658.41
11,388.0	95.14	0.03	9,727.6	5,758.0	1,941.7	-128.3	1,941.7	0.20	631,016.37	797,658.39
11,483.0	93.91	359.94	9,720.1	5,750.5	2,036.4	-128.3	2,036.4	1.30	631,111.08	797,658.36
11,578.0	94.18	359.85	9,713.4	5,743.8	2,131.1	-128.5	2,131.1	0.30	631,205.84	797,658.19
11,672.0	94.53	0.20	9,706.3	5,736.7	2,224.9	-128.5	2,224.9	0.53	631,299.57	797,658.23
11,767.0	94.88	0.38	9,698.5	5,728.9	2,319.5	-128.0	2,319.5	0.41	631,394.25	797,658.71
11,861.0	95.41	0.73	9,690.1	5,720.5	2,413.2	-127.1	2,413.2	0.67	631,487.86	797,659.62
11,956.0	94.62	359.68	9,681.8	5,712.2	2,507.8	-126.7	2,507.8	1.38	631,582.50	797,659.96
12,051.0	93.65	0.29	9,674.9	5,705.3	2,602.5	-126.8	2,602.5	1.21	631,677.25	797,659.93
12,145.0	94.00	0.29	9,668.6	5,699.0	2,696.3	-126.3	2,696.3	0.37	631,771.04	797,660.41
12,240.0	94.53	0.82	9,661.6	5,692.0	2,791.1	-125.4	2,791.1	0.79	631,865.77	797,661.32



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	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)
12,335.0	95.23	1.08	9,653.5	5,683.9	2,885.7	-123.8	2,885.7	0.79	631,960.41	797,662.89
12,429.0	96.11	1.70	9,644.2	5,674.6	2,979.2	-121.5	2,979.2	1.14	632,053.92	797,665.16
12,524.0	94.79	0.47	9,635.2	5,665.6	3,073.8	-119.7	3,073.8	1.90	632,148.47	797,666.95
12,619.0	95.50	0.55	9,626.7	5,657.1	3,168.4	-118.9	3,168.4	0.75	632,243.08	797,667.79
12,713.0	94.44	0.55	9,618.5	5,648.9	3,262.0	-118.0	3,262.0	1.13	632,336.72	797,668.69
12,808.0	95.50	0.82	9,610.3	5,640.7	3,356.7	-116.9	3,356.7	1.15	632,431.36	797,669.82
12,903.0	96.73	1.26	9,600.2	5,630.6	3,451.1	-115.2	3,451.1	1.37	632,525.80	797,671.54
12,997.0	94.97	2.66	9,590.6	5,621.0	3,544.6	-112.0	3,544.6	2.39	632,619.25	797,674.74
13,092.0	95.67	2.84	9,581.8	5,612.2	3,639.0	-107.4	3,639.0	0.76	632,713.73	797,679.28
13,187.0	96.73	3.45	9,571.5	5,601.9	3,733.3	-102.2	3,733.3	1.29	632,808.03	797,684.46
13,281.0	97.69	3.45	9,559.7	5,590.1	3,826.4	-96.6	3,826.4	1.02	632,901.12	797,690.07
13,376.0	98.57	2.66	9,546.3	5,576.7	3,920.3	-91.6	3,920.3	1.24	632,995.03	797,695.08
13,471.0	97.17	3.02	9,533.3	5,563.7	4,014.3	-87.0	4,014.3	1.52	633,089.02	797,699.74
13,565.0	96.38	3.81	9,522.2	5,552.6	4,107.5	-81.4	4,107.5	1.18	633,182.19	797,705.30
13,660.0	96.81	3.89	9,511.3	5,541.7	4,201.6	-75.1	4,201.6	0.46	633,276.35	797,711.64
13,755.0	96.11	4.07	9,500.6	5,531.0	4,295.8	-68.5	4,295.8	0.76	633,370.52	797,718.19
13,849.0	97.08	4.42	9,489.8	5,520.2	4,388.9	-61.6	4,388.9	1.10	633,463.64	797,725.10
13,944.0	98.22	5.04	9,477.2	5,507.6	4,482.8	-53.8	4,482.8	1.36	633,557.47	797,732.87
14,038.0	99.45	5.30	9,462.7	5,493.1	4,575.3	-45.5	4,575.3	1.34	633,649.98	797,741.24
14,134.0	100.60	5.83	9,446.0	5,476.4	4,669.4	-36.3	4,669.4	1.32	633,744.06	797,750.40
14,214.0	100.60	5.83	9,431.3	5,461.7	4,747.6	-28.3	4,747.6	0.00	633,822.29	797,758.39
PROJECTED BHL - 14214.0 'MD, 9431.3 'TVD, 4747.6 'N, -28.3 'E										



Pathfinder
PathfinderX & Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
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Site:	Ironhouse 19 State Com	MD Reference:	KB = 18' @ 3969.6usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,242.0	9,233.9	106.6	-51.0	KOP - 9242.0 'MD, 9233.9 'TVD, 106.6 'N, -51.0 'E
10,189.0	9,818.7	747.1	-107.7	LP - 10189.0 'MD, 9818.7 'TVD, 747.1 'N, -107.7 'E
14,214.0	9,431.3	4,747.6	-28.3	PROJECTED BHL - 14214.0 'MD, 9431.3 'TVD, 4747.6 'N, -28.3 'E

Checked By: _____	Approved By: _____	Date: _____
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