

30-015-41105

Devon Energy, Inc.

Eddy County (NAD83)

Antares 23 Fed

#1H

OH

Design: OH

Standard Survey Report

17 September, 2013

Pathfinder - A Schlumberger Company

Survey Report

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3567.00usft (H&P 300)
Site:	Antares 23 Fed	MD Reference:	KB = 26 @ 3567.00usft (H&P 300)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site		Antares 23 Fed			
Site Position:		Northing:	596,807.53 usft	Latitude:	32° 38' 22.721 N
From:	Map	Easting:	697,699.49 usft	Longitude:	103° 49' 31.314 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.27 °

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	600,683.49 usft	Latitude:	32° 39' 1.395 N
	+E/-W	0.00 usft	Easting:	690,769.77 usft	Longitude:	103° 50' 52.149 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,541.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	9/28/2013	7.58	60.43	48,574

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	82.03	

Survey Program	Date	9/17/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	4,320.00	#1 VES Gyro (OH)	GG ISCWSA	Good Gyro	
4,352.00	13,684.00	Survey #2 Pathfinder MWD (OH)	Pathfinder	Pathfinder MWD	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.17	282.64	100.00	0.03	-0.14	-0.14	0.17	0.17	0.00	
200.00	0.31	322.51	200.00	0.28	-0.45	-0.41	0.21	0.14	39.87	
300.00	0.48	341.07	300.00	0.89	-0.75	-0.62	0.21	0.17	18.56	
400.00	0.58	339.22	399.99	1.76	-1.07	-0.82	0.10	0.10	-1.85	
500.00	0.78	340.15	499.99	2.87	-1.48	-1.07	0.20	0.20	0.93	
600.00	0.57	339.10	599.98	3.98	-1.89	-1.32	0.21	-0.21	-1.05	
700.00	0.61	326.72	699.97	4.89	-2.36	-1.66	0.13	0.04	-12.38	
800.00	0.46	320.56	799.97	5.64	-2.91	-2.10	0.16	-0.15	-6.16	
900.00	0.43	335.42	899.97	6.29	-3.32	-2.41	0.12	-0.03	14.86	

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

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.31	352.51	999.96	6.90	-3.51	-2.52	0.16	-0.12	17.09
1,100.00	0.19	352.86	1,099.96	7.34	-3.56	-2.51	0.12	-0.12	0.35
1,200.00	0.29	358.01	1,199.96	7.75	-3.59	-2.48	0.10	0.10	5.15
1,300.00	0.31	12.51	1,299.96	8.27	-3.54	-2.36	0.08	0.02	14.50
1,400.00	0.31	12.60	1,399.96	8.80	-3.43	-2.17	0.00	0.00	0.09
1,500.00	0.86	19.59	1,499.95	9.77	-3.12	-1.73	0.55	0.55	6.99
1,600.00	0.99	26.61	1,599.94	11.25	-2.48	-0.89	0.17	0.13	7.02
1,700.00	1.29	32.29	1,699.92	12.97	-1.49	0.32	0.32	0.30	5.68
1,800.00	1.82	40.00	1,799.88	15.14	0.13	2.23	0.57	0.53	7.71
1,900.00	1.80	36.35	1,899.83	17.62	2.08	4.51	0.12	-0.02	-3.65
2,000.00	2.29	38.15	1,999.77	20.46	4.25	7.05	0.49	0.49	1.80
2,100.00	2.36	36.36	2,099.69	23.69	6.70	9.92	0.10	0.07	-1.79
2,200.00	2.35	27.75	2,199.60	27.16	8.88	12.56	0.35	-0.01	-8.61
2,300.00	2.52	25.75	2,299.51	30.95	10.79	14.98	0.19	0.17	-2.00
2,400.00	2.45	23.58	2,399.42	34.89	12.60	17.32	0.12	-0.07	-2.17
2,500.00	2.44	28.08	2,499.33	38.73	14.46	19.69	0.19	-0.01	4.50
2,600.00	2.47	33.65	2,599.24	42.40	16.65	22.37	0.24	0.03	5.57
2,700.00	1.99	36.67	2,699.16	45.59	18.88	25.02	0.49	-0.48	3.02
2,800.00	1.66	45.57	2,799.11	48.00	20.95	27.41	0.43	-0.33	8.90
2,900.00	1.65	40.54	2,899.07	50.10	22.92	29.65	0.15	-0.01	-5.03
3,000.00	1.57	38.65	2,999.03	52.27	24.72	31.72	0.10	-0.08	-1.89
3,100.00	1.33	36.92	3,099.00	54.27	26.27	33.54	0.24	-0.24	-1.73
3,200.00	0.84	36.69	3,198.98	55.78	27.40	34.87	0.49	-0.49	-0.23
3,300.00	0.87	35.55	3,298.97	56.99	28.28	35.91	0.03	0.03	-1.14
3,400.00	0.63	28.54	3,398.96	58.09	28.99	36.76	0.26	-0.24	-7.01
3,500.00	0.98	21.14	3,498.95	59.37	29.56	37.50	0.36	0.35	-7.40
3,600.00	1.20	21.08	3,598.93	61.14	30.24	38.43	0.22	0.22	-0.06
3,700.00	0.73	27.27	3,698.92	62.69	30.91	39.31	0.48	-0.47	6.19
3,800.00	0.52	19.37	3,798.91	63.68	31.35	39.88	0.23	-0.21	-7.90
3,922.00	0.90	15.43	3,920.90	65.13	31.79	40.52	0.31	0.31	-3.23
4,000.00	1.11	16.55	3,998.89	66.44	32.17	41.07	0.27	0.27	1.44
4,100.00	1.28	19.33	4,098.87	68.42	32.82	41.99	0.18	0.17	2.78
4,200.00	1.44	19.23	4,198.84	70.66	33.60	43.07	0.16	0.16	-0.10
4,320.00	1.90	20.11	4,318.79	73.96	34.78	44.70	0.38	0.38	0.73
4,352.00	1.32	16.60	4,350.77	74.81	35.07	45.10	1.84	-1.81	-10.97
4,446.00	1.14	26.78	4,444.75	76.68	35.80	46.09	0.30	-0.19	10.83
4,541.00	2.73	352.02	4,539.70	79.76	35.91	46.62	2.01	1.67	-36.59
4,636.00	5.01	351.26	4,634.48	86.10	34.97	46.57	2.40	2.40	-0.80
4,730.00	7.03	347.16	4,727.95	95.77	33.06	46.02	2.20	2.15	-4.36
4,825.00	8.53	353.18	4,822.08	108.44	30.94	45.67	1.79	1.58	6.34
4,919.00	8.09	1.60	4,915.09	121.97	30.29	46.91	1.38	-0.47	8.96
5,014.00	7.74	0.68	5,009.19	135.05	30.55	48.98	0.39	-0.37	-0.97
5,108.00	6.95	359.56	5,102.42	147.07	30.59	50.68	0.85	-0.84	-1.19

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

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,202.00	6.42	355.45	5,195.78	157.99	30.13	51.74	0.76	-0.56	-4.37
5,297.00	5.89	355.62	5,290.23	168.15	29.33	52.36	0.56	-0.56	0.18
5,391.00	5.80	353.10	5,383.74	177.67	28.39	52.75	0.29	-0.10	-2.68
5,486.00	6.42	4.53	5,478.20	187.73	28.24	53.99	1.43	0.65	12.03
5,581.00	6.51	6.00	5,572.60	198.38	29.22	56.44	0.20	0.09	1.55
5,675.00	7.47	356.75	5,665.90	209.78	29.43	58.23	1.57	1.02	-9.84
5,770.00	7.39	354.46	5,760.11	222.03	28.49	59.00	0.32	-0.08	-2.41
5,864.00	7.03	353.60	5,853.36	233.76	27.26	59.41	0.40	-0.38	-0.91
5,958.00	6.68	353.58	5,946.69	244.91	26.01	59.72	0.37	-0.37	-0.02
6,053.00	7.91	353.46	6,040.92	256.90	24.65	60.03	1.29	1.29	-0.13
6,147.00	8.62	359.65	6,133.94	270.37	23.87	61.13	1.21	0.76	6.59
6,242.00	8.44	0.59	6,227.89	284.46	23.90	63.11	0.24	-0.19	0.99
6,336.00	8.18	359.04	6,320.91	298.04	23.86	64.95	0.37	-0.28	-1.65
6,431.00	7.74	359.81	6,414.99	311.20	23.72	66.64	0.48	-0.46	0.81
6,525.00	7.21	358.68	6,508.19	323.42	23.57	68.18	0.59	-0.56	-1.20
6,620.00	7.12	358.13	6,602.45	335.27	23.24	69.50	0.12	-0.09	-0.58
6,714.00	6.42	355.15	6,695.79	346.33	22.60	70.40	0.83	-0.74	-3.17
6,809.00	6.33	355.11	6,790.21	356.84	21.71	70.97	0.09	-0.09	-0.04
6,903.00	5.98	353.21	6,883.66	366.86	20.69	71.35	0.43	-0.37	-2.02
6,998.00	5.89	359.99	6,978.16	376.65	20.10	72.13	0.74	-0.09	7.14
7,092.00	5.45	357.93	7,071.70	385.94	19.94	73.26	0.52	-0.47	-2.19
7,186.00	5.98	359.69	7,165.23	395.29	19.75	74.37	0.59	0.56	1.87
7,281.00	7.65	1.11	7,259.55	406.57	19.85	76.03	1.77	1.76	1.49
7,375.00	6.95	358.48	7,352.79	418.51	19.82	77.65	0.83	-0.74	-2.80
7,470.00	6.95	0.58	7,447.09	430.00	19.72	79.15	0.27	0.00	2.21
7,564.00	7.91	2.22	7,540.30	442.15	20.03	81.14	1.05	1.02	1.74
7,659.00	7.12	6.12	7,634.49	454.54	20.91	83.73	0.99	-0.83	4.11
7,753.00	8.09	4.59	7,727.66	466.92	22.06	86.59	1.05	1.03	-1.63
7,848.00	9.15	0.09	7,821.59	481.14	22.61	89.10	1.32	1.12	-4.74
7,943.00	7.83	354.62	7,915.55	495.14	22.01	90.45	1.63	-1.39	-5.76
8,037.00	7.03	348.61	8,008.76	507.15	20.28	90.40	1.19	-0.85	-6.39
8,131.00	6.07	342.26	8,102.14	517.52	17.63	89.21	1.28	-1.02	-6.76
8,226.00	6.68	347.26	8,196.56	527.70	14.88	87.90	0.87	0.64	5.26
8,321.00	7.30	351.25	8,290.85	539.05	12.74	87.36	0.83	0.65	4.20
8,415.00	7.47	357.99	8,384.07	551.06	11.62	87.91	0.94	0.18	7.17
8,510.00	7.83	358.03	8,478.23	563.70	11.18	89.23	0.38	0.38	0.04
8,574.00	6.95	357.15	8,541.69	571.92	10.84	90.03	1.39	-1.38	-1.38
8,605.00	6.33	353.53	8,572.49	575.49	10.55	90.24	2.41	-2.00	-11.68
8,636.00	6.24	0.38	8,603.30	578.88	10.37	90.53	2.43	-0.29	22.10
8,668.00	8.35	22.68	8,635.05	582.76	11.28	91.97	10.92	6.59	69.69
8,699.00	11.61	36.65	8,665.58	587.34	14.01	95.31	13.03	10.52	45.06
8,731.00	14.16	45.64	8,696.77	592.66	18.73	100.72	10.11	7.97	28.09
8,762.00	16.53	57.07	8,726.67	597.71	25.14	107.78	12.36	7.65	36.87

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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8,794.00	18.99	64.58	8,757.15	602.43	33.67	116.87	10.49	7.69	23.47
8,825.00	20.93	70.49	8,786.29	606.44	43.45	127.11	9.02	6.26	19.06
8,857.00	22.77	77.00	8,815.99	609.74	54.87	138.88	9.50	5.75	20.34
8,888.00	24.36	78.78	8,844.41	612.34	66.99	151.24	5.62	5.13	5.74
8,920.00	26.64	80.74	8,873.29	614.78	80.54	165.01	7.60	7.13	6.13
8,952.00	28.93	84.14	8,901.60	616.72	95.33	179.92	8.70	7.16	10.63
8,983.00	31.39	87.67	8,928.40	617.82	110.86	195.45	9.78	7.94	11.39
9,015.00	33.77	87.80	8,955.36	618.50	128.07	212.59	7.44	7.44	0.41
9,046.00	36.93	88.98	8,980.65	618.99	146.00	230.41	10.43	10.19	3.81
9,078.00	41.06	87.84	9,005.51	619.56	166.12	250.42	13.10	12.91	-3.56
9,109.00	44.67	85.40	9,028.23	620.82	187.17	271.44	12.82	11.65	-7.87
9,141.00	48.28	84.90	9,050.26	622.78	210.28	294.60	11.34	11.28	-1.56
9,172.00	52.58	85.83	9,070.01	624.71	234.09	318.45	14.06	13.87	3.00
9,204.00	55.84	85.91	9,088.72	626.58	259.98	344.35	10.19	10.19	0.25
9,235.00	58.56	85.30	9,105.51	628.57	285.96	370.35	8.93	8.77	-1.97
9,267.00	61.03	85.71	9,121.61	630.74	313.53	397.95	7.80	7.72	1.28
9,298.00	63.05	85.56	9,136.14	632.82	340.83	425.28	6.53	6.52	-0.48
9,330.00	65.42	85.47	9,150.05	635.08	369.55	454.04	7.41	7.41	-0.28
9,361.00	68.24	85.41	9,162.25	637.34	397.96	482.49	9.10	9.10	-0.19
9,393.00	70.70	87.25	9,173.47	639.26	427.86	512.37	9.39	7.69	5.75
9,424.00	73.34	87.99	9,183.04	640.48	457.32	541.71	8.81	8.52	2.39
9,434.61	74.39	88.05	9,185.99	640.83	467.51	551.84	9.89	9.87	0.54
Landing Point									
9,456.00	76.50	88.16	9,191.36	641.52	488.20	572.43	9.89	9.88	0.53
9,487.00	79.76	87.69	9,197.74	642.62	518.51	602.60	10.62	10.52	-1.52
9,507.00	82.13	87.79	9,200.89	643.40	538.25	622.26	11.86	11.85	0.50
9,603.00	88.72	86.48	9,208.54	648.18	633.76	717.52	7.00	6.86	-1.36
9,698.00	88.37	89.91	9,210.95	651.17	728.67	811.92	3.63	-0.37	3.61
9,793.00	90.31	90.06	9,212.05	651.20	823.66	906.00	2.05	2.04	0.16
9,887.00	90.75	90.61	9,211.18	650.65	917.66	999.01	0.75	0.47	0.59
9,981.00	90.48	90.36	9,210.17	649.85	1,011.65	1,091.98	0.39	-0.29	-0.27
10,076.00	90.22	90.71	9,209.59	648.97	1,106.64	1,185.93	0.46	-0.27	0.37
10,171.00	90.13	91.17	9,209.30	647.41	1,201.63	1,279.79	0.49	-0.09	0.48
10,265.00	89.78	89.99	9,209.37	646.46	1,295.62	1,372.74	1.31	-0.37	-1.26
10,360.00	88.90	89.57	9,210.47	646.82	1,390.61	1,466.86	1.03	-0.93	-0.44
10,454.00	88.90	89.25	9,212.27	647.79	1,484.59	1,560.07	0.34	0.00	-0.34
10,548.00	89.69	88.67	9,213.43	649.49	1,578.57	1,653.37	1.04	0.84	-0.62
10,643.00	90.66	89.00	9,213.14	651.43	1,673.54	1,747.70	1.08	1.02	0.35
10,737.00	91.71	89.20	9,211.19	652.90	1,767.51	1,840.97	1.14	1.12	0.21
10,832.00	90.75	91.26	9,209.15	652.52	1,862.48	1,934.97	2.39	-1.01	2.17
10,926.00	91.10	91.22	9,207.64	650.49	1,956.45	2,027.74	0.37	0.37	-0.04
11,020.00	91.36	91.80	9,205.62	648.01	2,050.39	2,120.44	0.68	0.28	0.62
11,115.00	90.31	90.98	9,204.23	645.71	2,145.35	2,214.16	1.40	-1.11	-0.86
11,209.00	90.84	91.14	9,203.29	643.97	2,239.33	2,306.99	0.59	0.56	0.17

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Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26 @ 3567.00usft (H&P 300)
Site:	Antares 23 Fed	MD Reference:	KB = 26 @ 3567.00usft (H&P 300)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,304.00	88.64	89.78	9,203.72	643.20	2,334.32	2,400.96	2.72	-2.32	-1.43
11,315.50	88.61	89.85	9,204.00	643.24	2,345.81	2,412.34	0.70	-0.29	0.64
Midpoint (Antares 23 #1H)									
11,398.00	88.37	90.38	9,206.17	643.07	2,428.29	2,494.00	0.70	-0.29	0.64
11,492.00	89.08	90.49	9,208.27	642.36	2,522.26	2,586.96	0.76	0.76	0.12
11,587.00	89.52	89.01	9,209.43	642.77	2,617.25	2,681.09	1.63	0.46	-1.56
11,682.00	89.43	89.54	9,210.30	643.98	2,712.24	2,775.33	0.57	-0.09	0.56
11,776.00	88.55	89.75	9,211.95	644.56	2,806.22	2,868.49	0.96	-0.94	0.22
11,870.00	88.99	88.45	9,213.97	646.03	2,900.19	2,961.75	1.46	0.47	-1.38
11,965.00	90.13	88.36	9,214.70	648.68	2,995.14	3,056.16	1.20	1.20	-0.09
12,057.00	90.48	88.46	9,214.21	651.23	3,087.11	3,147.58	0.40	0.38	0.11
12,153.00	91.01	88.43	9,212.96	653.84	3,183.06	3,242.97	0.55	0.55	-0.03
12,248.00	91.01	88.76	9,211.29	656.16	3,278.02	3,337.34	0.35	0.00	0.35
12,342.00	90.92	89.27	9,209.71	657.78	3,371.99	3,430.63	0.55	-0.10	0.54
12,437.00	90.48	89.51	9,208.54	658.79	3,466.98	3,524.84	0.53	-0.46	0.25
12,531.00	90.31	90.14	9,207.90	659.08	3,560.98	3,617.96	0.69	-0.18	0.67
12,626.00	90.04	90.34	9,207.61	658.68	3,655.98	3,711.99	0.35	-0.28	0.21
12,720.00	90.13	90.46	9,207.47	658.02	3,749.97	3,804.99	0.16	0.10	0.13
12,815.00	89.87	90.63	9,207.47	657.12	3,844.97	3,898.94	0.33	-0.27	0.18
12,909.00	89.52	91.20	9,207.97	655.62	3,938.95	3,991.81	0.71	-0.37	0.61
13,004.00	89.08	90.58	9,209.13	654.14	4,033.94	4,085.67	0.80	-0.46	-0.65
13,098.00	89.16	89.73	9,210.57	653.89	4,127.92	4,178.72	0.91	0.09	-0.90
13,192.00	88.99	90.11	9,212.09	654.02	4,221.91	4,271.81	0.44	-0.18	0.40
13,287.00	89.78	89.90	9,213.11	654.01	4,316.90	4,365.89	0.86	0.83	-0.22
13,381.00	89.60	90.17	9,213.62	653.96	4,410.90	4,458.97	0.35	-0.19	0.29
13,475.00	89.16	90.28	9,214.63	653.59	4,504.90	4,552.01	0.48	-0.47	0.12
13,570.00	89.16	90.15	9,216.03	653.23	4,599.89	4,646.03	0.14	0.00	-0.14
13,609.00	88.99	90.11	9,216.66	653.14	4,638.88	4,684.63	0.45	-0.44	-0.10
13,684.00	88.99	90.11	9,217.98	653.00	4,713.87	4,758.88	0.00	0.00	0.00
PBHL(Antares 23 #1H)									

Checked By: _____	Approved By: _____	Date: _____
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Azimuths to Grid North
 True North: -0.26°
 Magnetic North: 7.31°
 Magnetic Field
 Strength: 48574.2nT
 Dip Angle: 60.43°
 Date: 9/28/2013
 Model: BGGM2012

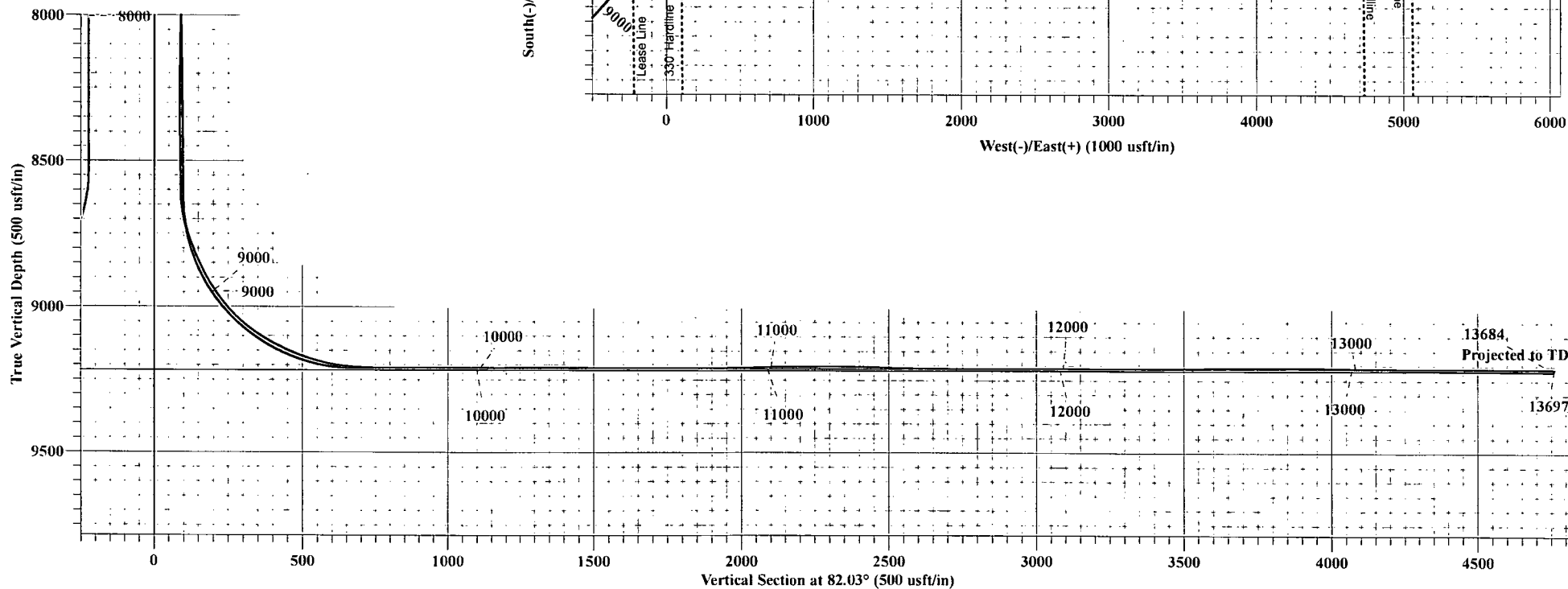
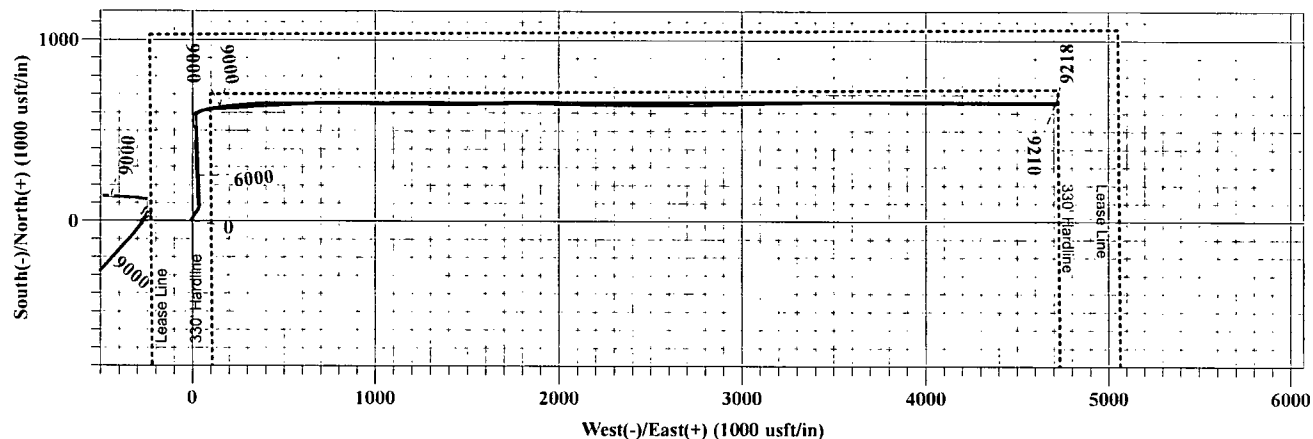


A Schlumberger Company

Project: Eddy County (NAD83)
 Site: Antares 23 Fed
 Well: #1H
 OH
 OH

WELL DETAILS: #1H

+N/-S	+E/-W	KB = 26 @ 3567.00usft (H&P 300)	3541.00
0.00	0.00	Northing 600683.49	Latitude 32° 39' 1.395 N
		Easting 690769.77	Longitude 103° 50' 52.149 W



Design: OH (#1H/OH)

Created By: Jenise Kirkpatrick Date: 9:02, September 17 2013