



Proudfoot Unit 1H
 Doddridge County WV
 Northing: 14238604.54
 Easting: 1714297.85
 As Drilled

Patterson 317: 1275' GL + 22.5' KB @ 1287.5usft
 1275.0

WELL DETAILS
 Proudfoot Unit 1H
 Ground Level: 1275.0
 Easting: 1714297.8539 12' 36.987 N80° 44' 21.024 W
 Longitude: 80° 44' 21.024 W

PROJECT DETAILS: Doddridge County WV
 Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 17N (84 W to 78 W)
 System Datum: Mean Sea Level

SITE DETAILS: Hamlet/Lick Run/Proudfoot/Sibley Pad
 10.57, August 18 2014
 Genie Lightfoot
 Scientific Drilling
 421 South Eagle Lane
 Oklahoma City, OK 73128

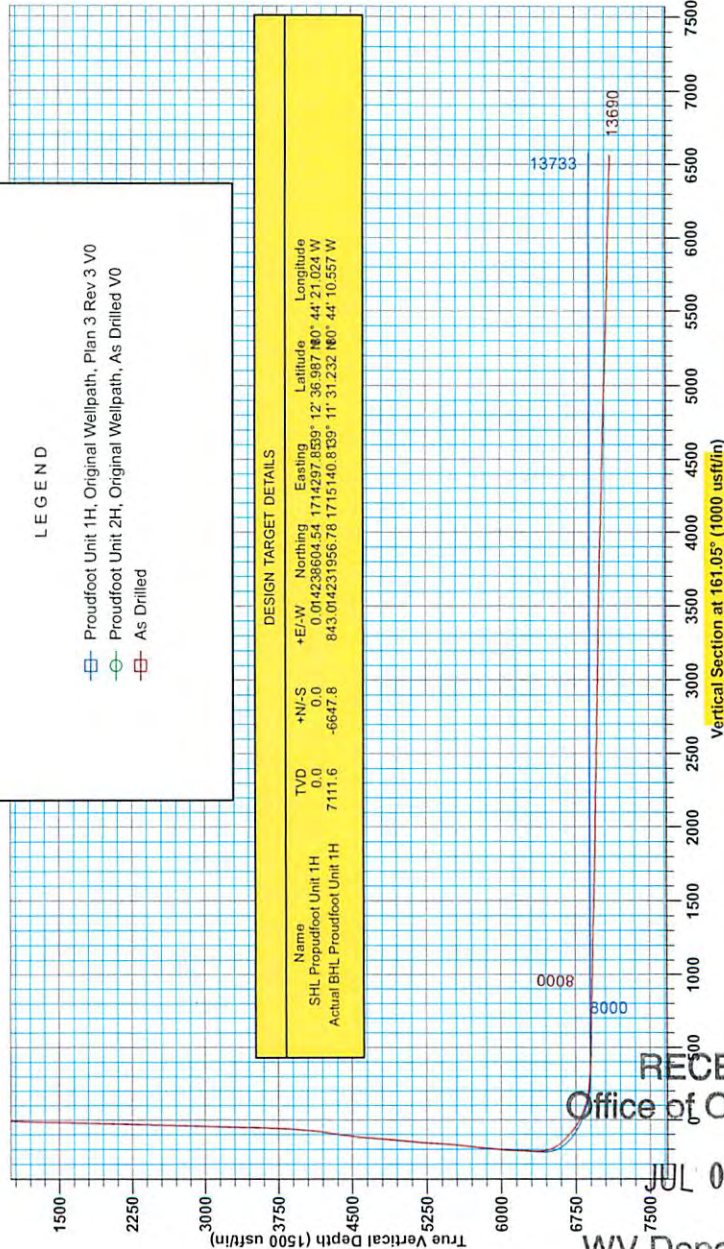


LEGEND

- Proudfoot Unit 1H, Original Wellpath, Plan 3 Rev 3 V0
- Proudfoot Unit 2H, Original Wellpath, As Drilled V0
- As Drilled

DESIGN TARGET DETAILS

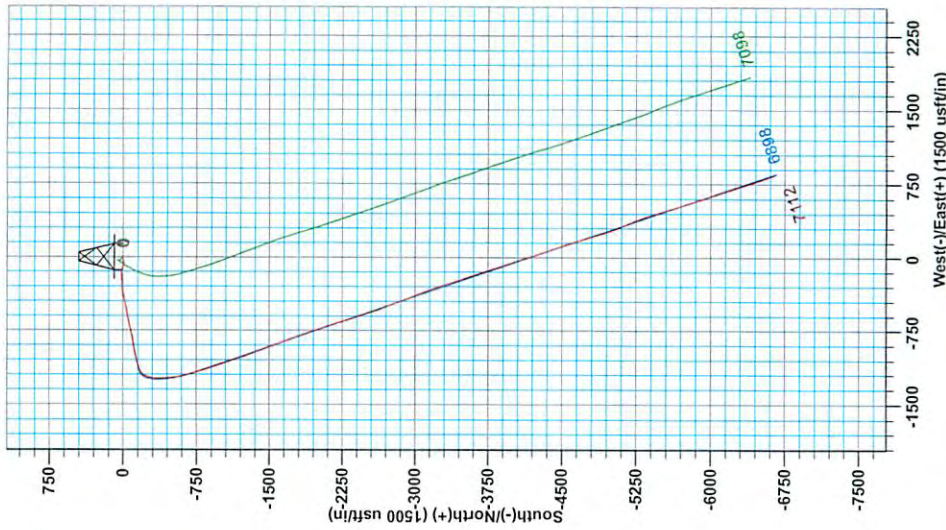
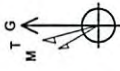
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Proudfoot Unit 1H	0.0	0.0	0.0	1714297.8539	1715140.8139	12° 36.987 N80° 44' 21.024 W	
Actual BHL Proudfoot Unit 1H	7111.6	-6647.8	843.0142319566	1715140.8139	11° 31.232 N80° 44' 10.557 W		



To convert Magnetic North to Grid, Subtract 8.64°
 To convert True North to Grid, Subtract 0.16°

Azimuths to Grid North
 True North: -0.17°
 Magnetic North: -8.64°

Magnetic Field
 Strength: 52270 BsNT
 Dip Angle: 66.76°
 Date: 4/7/2014
 Model: IGRF2010



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Antero Resources

Doddridge County WV
Harriet/Lick Run/Proudfoot/Sibley Pad
Proudfoot Unit 1H
Original Wellpath

Design: As Drilled

EOW Completion Report

18 August, 2014



Scientific Drilling

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WV Department of
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07/24/2015



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Proudfoot Unit 1H
Project:	Doddridge County WV	TVD Reference:	Patterson 317: 1275' GL + 22.5' KB @ 1297.5usft
Site:	Harriet/Lick Run/Proudfoot/Sibley Pad	MD Reference:	Patterson 317: 1275' GL + 22.5' KB @ 1297.5usft
Well:	Proudfoot Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Project	Doddridge County WV, McClellan District		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Harriet/Lick Run/Proudfoot/Sibley Pad, SHL Proudfoot Unit 2H				
Site Position:	Northing:	14,238,600.69 usft	Latitude:	39° 12' 36.949 N	
From:	Easting:	1,714,306.91 usft	Longitude:	80° 44' 20.909 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.16 °

Well	Proudfoot Unit 1H, Marcellus					
Well Position	+N/-S	0.0 usft	Northing:	14,238,604.54 usft	Latitude:	39° 12' 36.987 N
	+E/-W	0.0 usft	Easting:	1,714,297.85 usft	Longitude:	80° 44' 21.024 W
Position Uncertainty	3.0 usft	Wellhead Elevation:	1,297.5 usft	Ground Level:	1,275.0 usft	

Wellbore	Original Wellpath
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/7/2014	-8.48	66.76	52,271

Design	As Drilled
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Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	161.05

Survey Program	Date	8/18/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
109.5	6,335.1	Survey #6 Final Gyro (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
6,344.5	13,690.0	Survey #5 SDI MWD (Original Wellpath)	SDI MWD	Scientific Drilling Intl. MWD - Standard ver 1.0.1

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
	109.5	0.52	332.50	109.5	0.4	-0.2	-0.5	0.47
	209.5	0.07	311.61	209.5	0.9	-0.5	-1.0	0.46
	309.5	0.10	262.99	309.5	0.9	-0.6	-1.1	0.08
	409.5	0.17	215.41	409.5	0.8	-0.8	-1.0	0.13
	509.5	0.76	246.72	509.5	0.4	-1.5	-0.6	0.62
	609.5	4.41	255.87	609.4	-0.8	-5.8	-1.1	3.66
	709.5	5.92	262.15	709.0	-2.4	-14.7	-2.4	1.61
	809.5	6.05	262.78	808.4	-3.8	-25.0	-4.5	0.15
	909.5	6.16	261.99	907.9	-5.2	-35.5	-6.6	0.14
	1,009.5	6.16	263.67	1,007.3	-6.6	-46.2	-8.8	0.18

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EOW Completion Report



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Project:	Doddridge County WV	TVD Reference:	Patterson 317: 1275' GL + 22.5' KB @ 1297.5usft
Site:	Harriet/Lick Run/Proudfoot/Sibley Pad	MD Reference:	Patterson 317: 1275' GL + 22.5' KB @ 1297.5usft
Well:	Proudfoot Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

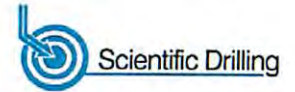
Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
1,109.5	4.96	270.95	1,106.8	-7.1	-55.8	-11.4	1.39
1,209.5	3.45	269.73	1,206.5	-7.0	-63.2	-13.9	1.51
1,309.5	3.06	270.08	1,306.4	-7.0	-68.8	-15.7	0.39
1,409.5	2.76	268.61	1,406.2	-7.1	-73.9	-17.3	0.31
1,509.5	2.57	271.61	1,506.1	-7.1	-78.6	-18.8	0.24
1,609.5	2.35	276.42	1,606.0	-6.8	-82.9	-20.5	0.30
1,709.5	1.93	280.88	1,706.0	-6.2	-86.5	-22.2	0.45
1,809.5	1.63	281.14	1,805.9	-5.7	-89.6	-23.7	0.30
1,909.5	1.61	283.33	1,905.9	-5.1	-92.4	-25.2	0.07
2,009.5	1.59	286.34	2,005.8	-4.3	-95.1	-26.8	0.09
2,109.5	1.51	285.27	2,105.8	-3.6	-97.7	-28.3	0.09
2,209.5	1.54	284.71	2,205.8	-2.9	-100.2	-29.8	0.03
2,309.5	1.47	288.07	2,305.7	-2.2	-102.7	-31.3	0.11
2,409.5	1.52	290.67	2,405.7	-1.3	-105.2	-32.9	0.08
2,509.5	1.64	288.50	2,505.7	-0.4	-107.8	-34.6	0.13
2,609.5	1.42	290.96	2,605.6	0.5	-110.3	-36.3	0.23
2,709.5	1.45	295.96	2,705.6	1.5	-112.6	-38.0	0.13
2,809.5	1.56	295.96	2,805.6	2.7	-115.0	-39.9	0.11
2,909.5	1.56	298.19	2,905.5	3.9	-117.4	-41.8	0.06
3,009.5	1.52	297.81	3,005.5	5.2	-119.8	-43.8	0.04
3,109.5	1.64	294.06	3,105.5	6.4	-122.2	-45.7	0.16
3,209.5	1.50	299.84	3,205.4	7.6	-124.7	-47.7	0.21
3,309.5	1.60	302.50	3,305.4	9.0	-127.0	-49.8	0.12
3,409.5	1.43	297.37	3,405.3	10.3	-129.3	-51.7	0.22
3,509.5	1.37	306.31	3,505.3	11.6	-131.4	-53.6	0.23
3,609.5	1.53	299.79	3,605.3	13.0	-133.5	-55.6	0.23
3,709.5	1.73	297.06	3,705.2	14.3	-136.0	-57.7	0.21
3,809.5	5.08	267.69	3,805.1	14.8	-141.8	-60.1	3.67
3,909.5	9.49	264.44	3,904.2	13.9	-154.4	-63.2	4.43
4,009.5	13.28	265.20	4,002.2	12.1	-174.0	-68.0	3.79
4,109.5	14.85	266.90	4,099.2	10.4	-198.3	-74.3	1.62
4,209.5	17.12	268.41	4,195.4	9.3	-225.8	-82.2	2.31
4,309.5	18.90	268.33	4,290.5	8.5	-256.7	-91.4	1.78
4,409.5	21.05	267.27	4,384.4	7.1	-290.8	-101.2	2.18
4,509.5	23.28	264.49	4,477.1	4.4	-328.5	-110.8	2.46
4,609.5	24.11	260.57	4,568.6	-0.9	-368.3	-118.8	1.78
4,709.5	23.51	257.46	4,660.1	-8.5	-407.9	-124.4	1.39
4,809.5	24.09	256.07	4,751.6	-17.8	-447.2	-128.4	0.81
4,909.5	24.86	256.72	4,842.6	-27.5	-487.4	-132.3	0.82
5,009.5	24.18	258.41	4,933.6	-36.5	-528.0	-137.0	0.98
5,109.5	24.24	259.34	5,024.8	-44.4	-568.2	-142.5	0.39
5,209.5	24.78	259.12	5,115.8	-52.1	-609.0	-148.4	0.55
5,309.5	24.99	259.01	5,206.5	-60.1	-650.3	-153.3	0.22
5,409.5	24.69	256.45	5,297.3	-69.0	-691.3	-159.2	1.12

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EOW Completion Report



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Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
5,509.5	23.70	255.69	5,388.5	-78.9	-731.1	-162.8	1.04
5,609.5	23.02	258.43	5,480.3	-87.8	-769.7	-166.9	1.28
5,709.5	22.64	259.89	5,572.5	-95.1	-807.8	-172.4	0.68
5,809.5	23.60	260.60	5,664.4	-101.7	-846.5	-178.7	1.00
5,909.5	23.84	262.32	5,756.0	-107.7	-886.3	-185.9	0.73
6,009.5	23.51	261.03	5,847.6	-113.5	-926.0	-193.4	0.61
6,109.5	23.54	258.20	5,939.3	-120.7	-965.3	-199.3	1.13
6,209.5	23.20	255.85	6,031.1	-129.6	-1,003.9	-203.4	0.99
6,309.5	23.40	255.79	6,122.9	-139.3	-1,042.3	-206.7	0.20
6,335.1	23.10	256.03	6,146.4	-141.8	-1,052.1	-207.6	1.23
6,458.0	23.48	253.27	6,259.3	-154.6	-1,098.9	-210.6	0.94
6,543.0	22.69	251.78	6,337.5	-164.6	-1,130.7	-211.5	1.16
6,605.0	22.55	249.75	6,394.7	-172.5	-1,153.2	-211.4	1.28
6,637.0	23.74	241.67	6,424.2	-177.7	-1,164.7	-210.2	10.59
6,668.0	25.43	231.09	6,452.4	-184.8	-1,175.3	-206.9	15.19
6,699.0	27.35	225.41	6,480.1	-194.0	-1,185.6	-201.5	10.23
6,709.0	27.80	223.90	6,489.0	-197.3	-1,188.8	-199.5	8.29
Sycamore							
6,731.0	28.84	220.75	6,508.4	-205.0	-1,195.9	-194.5	8.29
6,762.0	30.69	214.51	6,535.3	-217.2	-1,205.2	-186.0	11.63
6,793.0	32.27	208.54	6,561.7	-231.0	-1,213.7	-175.7	11.27
6,825.0	33.68	202.82	6,588.6	-246.7	-1,221.2	-163.3	10.68
6,856.0	35.61	196.76	6,614.1	-263.2	-1,227.1	-149.5	12.73
6,885.0	36.92	192.88	6,637.5	-279.8	-1,231.5	-135.3	9.10
Middlesex							
6,887.0	37.01	192.62	6,639.1	-281.0	-1,231.8	-134.2	9.10
6,919.0	38.34	188.50	6,664.4	-300.2	-1,235.3	-117.2	8.90
6,950.0	41.51	185.02	6,688.2	-320.0	-1,237.7	-99.3	12.51
6,982.0	43.53	181.38	6,711.8	-341.5	-1,238.9	-79.3	9.95
7,013.0	45.73	180.68	6,733.8	-363.3	-1,239.2	-58.8	7.27
7,045.0	48.01	178.74	6,755.7	-386.7	-1,239.1	-36.7	8.39
7,063.0	50.26	178.12	6,767.5	-400.3	-1,238.7	-23.7	12.75
Burkett							
7,076.0	51.88	177.69	6,775.6	-410.4	-1,238.4	-14.0	12.75
7,108.0	54.26	176.46	6,794.9	-435.9	-1,237.1	10.6	8.05
7,131.0	56.21	175.82	6,808.0	-454.8	-1,235.8	28.8	8.80
Tully							
7,140.0	56.98	175.58	6,812.9	-462.3	-1,235.2	36.1	8.80
7,171.0	60.81	174.13	6,829.0	-488.7	-1,232.8	61.9	12.99
7,203.0	64.89	173.29	6,843.6	-517.0	-1,229.7	89.6	12.96
7,235.0	69.12	171.01	6,856.1	-546.2	-1,225.7	118.5	14.76
7,266.0	71.58	168.64	6,866.5	-574.9	-1,220.5	147.4	10.71
7,267.0	71.68	168.60	6,866.8	-575.8	-1,220.3	148.3	10.81
Hamilton							

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Design:	As Drilled	Database:	Oklahoma District

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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
7,286.0	73.61	167.86	6,872.5	-593.6	-1,216.6	166.3	10.81
Marcellus							
7,298.0	74.83	167.40	6,875.7	-604.9	-1,214.2	177.8	10.81
7,330.0	79.19	165.41	6,882.9	-635.2	-1,206.8	208.8	14.91
7,361.0	82.03	165.87	6,888.0	-664.8	-1,199.3	239.3	9.28
7,392.0	82.22	165.03	6,892.2	-694.5	-1,191.5	269.9	2.75
7,419.0	83.25	164.37	6,895.6	-720.3	-1,184.5	296.7	4.52
7,451.0	85.65	163.19	6,898.7	-750.9	-1,175.6	328.5	8.35
7,514.0	86.97	162.83	6,902.8	-811.0	-1,157.2	391.3	2.17
7,609.0	87.76	162.48	6,907.2	-901.6	-1,128.9	486.2	0.91
7,704.0	88.02	161.08	6,910.6	-991.8	-1,099.2	581.1	1.50
7,799.0	88.11	161.08	6,913.9	-1,081.6	-1,068.4	676.0	0.09
7,894.0	88.15	161.70	6,917.0	-1,171.6	-1,038.1	771.0	0.65
7,985.0	88.29	161.25	6,919.8	-1,257.8	-1,009.2	861.9	0.52
8,076.0	88.64	159.58	6,922.2	-1,343.5	-978.8	952.9	1.87
8,168.0	89.16	159.32	6,924.0	-1,429.7	-946.5	1,044.8	0.63
8,258.0	88.29	159.58	6,926.0	-1,513.9	-914.9	1,134.8	1.01
8,350.0	88.29	158.31	6,928.7	-1,599.7	-881.8	1,226.7	1.38
8,441.0	87.85	159.06	6,931.8	-1,684.5	-848.8	1,317.5	0.96
8,531.0	87.41	161.43	6,935.5	-1,769.1	-818.4	1,407.4	2.68
8,623.0	87.49	160.20	6,939.6	-1,855.9	-788.2	1,499.4	1.34
8,713.0	87.23	160.55	6,943.8	-1,940.6	-758.0	1,589.2	0.48
8,805.0	87.41	161.43	6,948.1	-2,027.5	-728.1	1,681.1	0.98
8,896.0	88.11	162.40	6,951.6	-2,113.9	-699.8	1,772.1	1.31
8,987.0	89.08	163.36	6,953.9	-2,200.8	-673.1	1,863.0	1.50
9,082.0	88.99	162.40	6,955.5	-2,291.6	-645.1	1,957.9	1.01
9,177.0	89.08	162.83	6,957.1	-2,382.3	-616.7	2,052.9	0.46
9,272.0	88.29	163.89	6,959.2	-2,473.3	-589.5	2,147.8	1.39
9,367.0	87.93	159.14	6,962.4	-2,563.3	-559.4	2,242.7	5.01
9,461.0	87.76	158.53	6,965.9	-2,650.9	-525.5	2,336.6	0.67
9,556.0	88.11	160.37	6,969.3	-2,739.8	-492.2	2,431.5	1.97
9,651.0	88.46	159.23	6,972.2	-2,828.9	-459.4	2,526.4	1.25
9,746.0	88.29	159.58	6,974.9	-2,917.8	-426.0	2,621.3	0.41
9,841.0	88.46	159.49	6,977.6	-3,006.7	-392.8	2,716.2	0.20
9,936.0	87.44	157.67	6,981.0	-3,095.1	-358.1	2,811.1	2.20
10,031.0	88.29	160.29	6,984.5	-3,183.7	-324.1	2,905.9	2.90
10,127.0	90.84	162.04	6,985.2	-3,274.6	-293.1	3,001.9	3.22
10,222.0	87.32	161.52	6,986.7	-3,364.8	-263.4	3,096.9	3.75
10,317.0	88.02	162.31	6,990.6	-3,455.0	-233.9	3,191.8	1.11
10,412.0	88.02	160.90	6,993.9	-3,545.1	-204.0	3,286.7	1.48
10,507.0	88.55	161.96	6,996.7	-3,635.1	-173.7	3,381.7	1.25
10,601.0	89.08	161.87	6,998.7	-3,724.5	-144.5	3,475.7	0.57
10,697.0	88.11	161.60	7,001.0	-3,815.6	-114.5	3,571.6	1.05
10,792.0	88.02	160.37	7,004.2	-3,905.4	-83.5	3,666.6	1.30

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EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Proudfoot Unit 1H
Project:	Doddridge County WV	TVD Reference:	Patterson 317: 1275' GL + 22.5' KB @ 1297.5usft
Site:	Harriet/Lick Run/Proudfoot/Sibley Pad	MD Reference:	Patterson 317: 1275' GL + 22.5' KB @ 1297.5usft
Well:	Proudfoot Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
10,886.0	88.72	162.48	7,006.9	-3,994.4	-53.6	3,760.5	2.36
10,981.0	88.81	161.52	7,009.0	-4,084.7	-24.3	3,855.5	1.01
11,076.0	87.93	163.36	7,011.7	-4,175.3	4.4	3,950.4	2.15
11,171.0	87.23	162.66	7,015.7	-4,266.1	32.1	4,045.3	1.04
11,266.0	87.32	160.29	7,020.2	-4,356.0	62.3	4,140.2	2.49
11,361.0	87.49	159.06	7,024.5	-4,445.0	95.2	4,235.0	1.31
11,456.0	88.64	162.48	7,027.7	-4,534.6	126.5	4,330.0	3.80
11,550.0	88.29	162.83	7,030.2	-4,624.3	154.5	4,423.9	0.53
11,645.0	88.29	162.83	7,033.1	-4,715.1	182.5	4,518.8	0.00
11,739.0	88.55	161.87	7,035.6	-4,804.6	211.0	4,612.7	1.06
11,834.0	88.29	161.96	7,038.3	-4,894.9	240.5	4,707.7	0.29
11,929.0	87.76	162.04	7,041.5	-4,985.2	269.9	4,802.6	0.56
12,024.0	87.14	157.74	7,045.8	-5,074.3	302.5	4,897.5	4.57
12,119.0	86.44	155.45	7,051.1	-5,161.3	340.2	4,992.0	2.52
12,214.0	87.14	157.65	7,056.4	-5,248.3	377.9	5,086.6	2.43
12,309.0	85.91	161.25	7,062.2	-5,337.1	411.2	5,181.4	4.00
12,403.0	87.49	162.75	7,067.6	-5,426.3	440.2	5,275.2	2.32
12,498.0	87.67	163.10	7,071.6	-5,517.1	468.0	5,370.1	0.41
12,593.0	87.41	162.13	7,075.7	-5,607.7	496.4	5,464.9	1.06
12,688.0	87.85	161.69	7,079.6	-5,697.9	525.9	5,559.8	0.65
12,783.0	87.93	161.60	7,083.1	-5,788.0	555.8	5,654.8	0.13
12,877.0	88.02	161.16	7,086.4	-5,877.0	585.8	5,748.7	0.48
12,972.0	87.93	161.96	7,089.8	-5,967.1	615.8	5,843.6	0.85
13,067.0	87.93	162.66	7,093.2	-6,057.5	644.6	5,938.6	0.74
13,162.0	87.76	161.60	7,096.8	-6,147.9	673.8	6,033.5	1.13
13,257.0	87.93	162.31	7,100.4	-6,238.1	703.2	6,128.4	0.77
13,352.0	88.20	161.25	7,103.6	-6,328.3	732.9	6,223.3	1.15
13,447.0	88.37	161.69	7,106.4	-6,418.4	763.0	6,318.3	0.50
13,541.0	88.73	160.80	7,108.8	-6,507.3	793.3	6,412.3	1.02
13,628.0	88.99	160.55	7,110.5	-6,589.4	822.0	6,499.2	0.41
13,690.0	89.00	160.00	7,111.6	-6,647.8	843.0	6,561.2	0.89

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,709.0	6,489.0	-197.3	-1,188.8	Sycamore
6,885.0	6,637.5	-279.8	-1,231.5	Middlesex
7,063.0	6,767.5	-400.3	-1,238.7	Burkett
7,131.0	6,808.0	-454.8	-1,235.8	Tully
7,267.0	6,866.8	-575.8	-1,220.3	Hamilton
7,286.0	6,872.5	-593.6	-1,216.6	Marcellus

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