Antero Resources

Arters Unit 2H
Doddridge County WV
Northing: 14251310.15
Easting: 1762647.79
As Drilled

Scientific Drilling

To convert Magnetic North to Grid, Subtract 8.86°
To convert True North to Grid, Subtract 0.27°

Azimuths to Grid North
True North: -0.27°
Magnetic North: -8.86°

Magnetic Field
Strength: 52314.4snT
Dip Angle: 66.80°
Date: 11/27/2013
Model: IGRF2010

Arters 1H 1050 GL + 25 KB @ 1075.0usft
Gr: 1050.0

WELL DETAILS Arters Unit 2H
Ground Level: 1050.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14251310.15	1762647.79	39° 14' 40.788 N	80° 34' 5.775 W

SITE DETAILS: Ruth/Walter/Caswell/Arters
Center is Ruth Unit 1
Site Centre Northing: 14251337.29
Easting: 1762689.77
Positional Uncertainity: 2.8
Convergence: 0.27
Local North: Grid

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

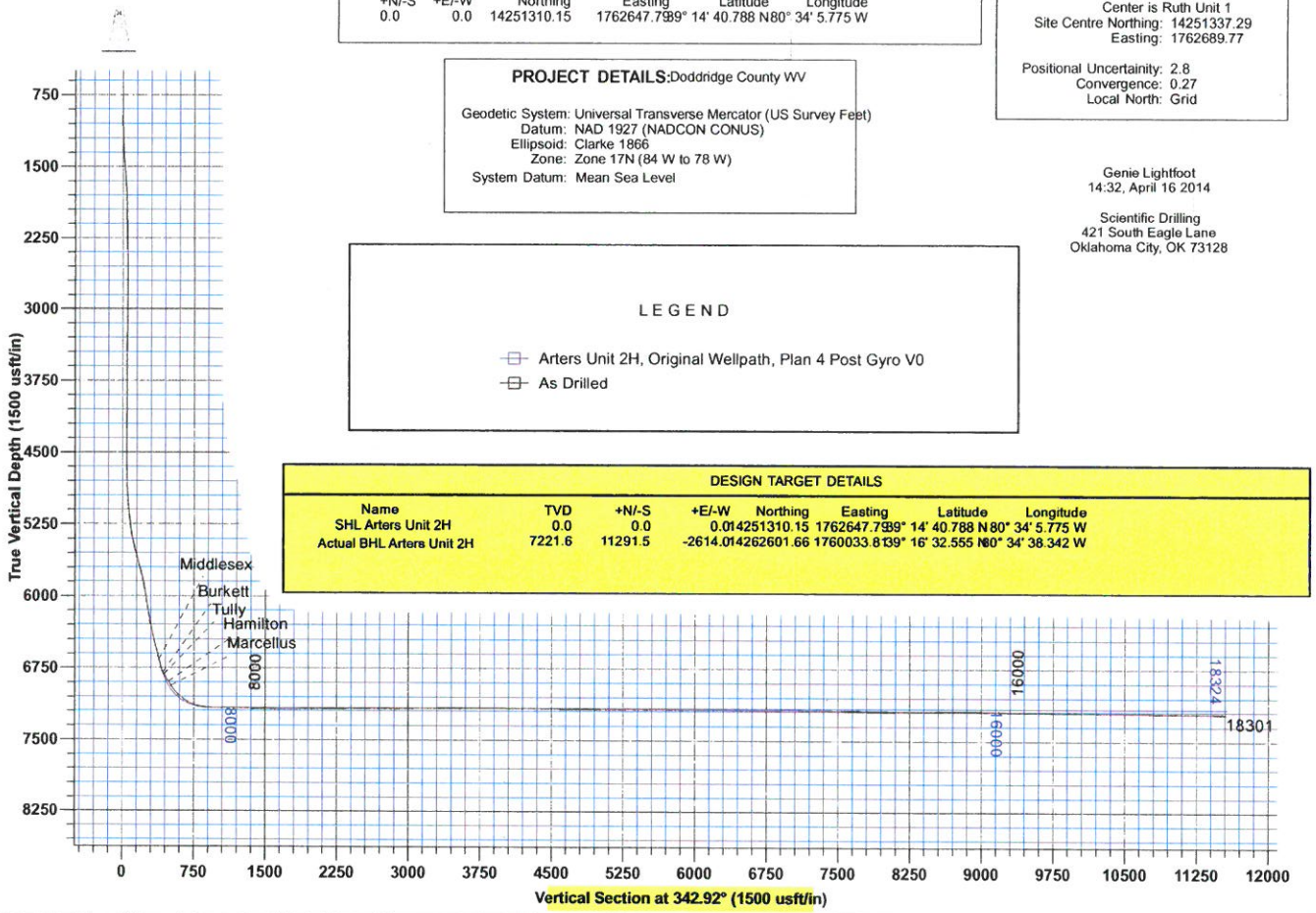
Genie Lightfoot
14:32, April 16 2014

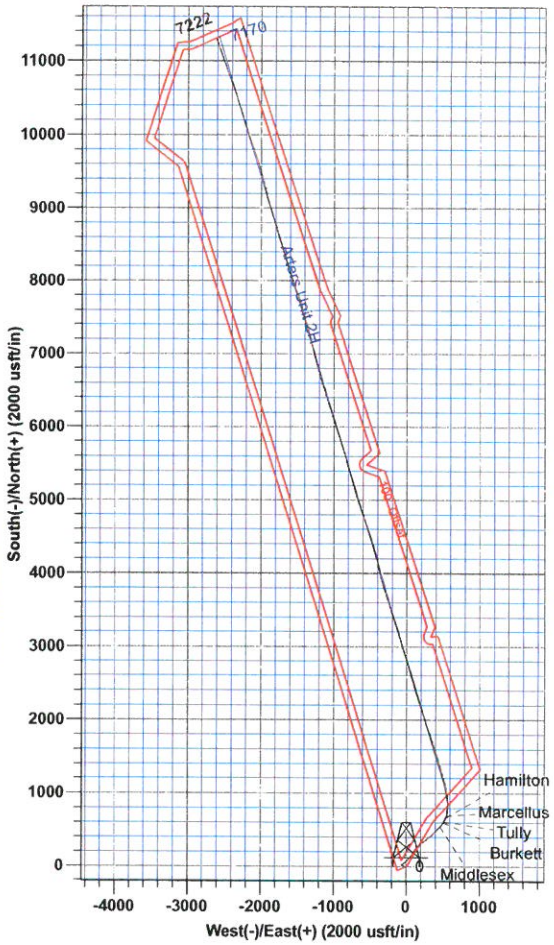
Scientific Drilling
421 South Eagle Lane
Oklahoma City, OK 73128

LEGEND
- Arters Unit 2H, Original Wellpath, Plan 4 Post Gyro V0
- As Drilled

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Arters Unit 2H	0.0	0.0	0.0	14251310.15	1762647.79	39° 14' 40.788 N	80° 34' 5.775 W
Actual BHL Arters Unit 2H	7221.6	11291.5	-2614.01	14262601.66	1760033.81	39° 16' 32.555 N	80° 34' 38.342 W





Antero Resources

Doddridge County WV
Ruth/Walter/Caswell/Arters
Arters Unit 2H
Original Wellpath

Design: As Drilled

EOW Completion Report

16 April, 2014

Scientific Drilling

Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Arters Unit 2H
Project:	Doddridge County WV	**TVD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Site:	Ruth/Walter/Caswell/Arters	**MD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Well:	Arters Unit 2H	**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 Ruth/Walter/Caswell/Arters, Center is Ruth Unit 1

Site Position:		**Northing:**	14,251,337.29 usft	**Latitude:**	39° 14' 41.054 N
From:	Map	**Easting:**	1,762,689.77 usft	**Longitude:**	80° 34' 5.240 W
Position Uncertainty:	2.8 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0.27 °

Well Arters Unit 2H

Well Position	**+N/-S**	0.0 usft	**Northing:**	14,251,310.15 usft	**Latitude:**	39° 14' 40.788 N
	+E/-W	0.0 usft	**Easting:**	1,762,647.79 usft	**Longitude:**	80° 34' 5.775 W
Position Uncertainty		2.8 usft	**Wellhead Elevation:**	1,075.0 usft	**Ground Level:**	1,050.0 usft

Wellbore Original Wellpath

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	11/27/2013	-8.59	66.80	52,314

Design As Drilled

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	342.92

Survey Program **Date** 4/16/2014

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
112.0	6,809.0	Survey #8 Final Gyro (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
6,837.0	18,301.0	Survey #7 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
112.0	0.17	220.19	112.0	-0.1	-0.1	-0.1	0.15
212.0	0.04	157.60	212.0	-0.3	-0.2	-0.2	0.16
312.0	0.17	137.47	312.0	-0.4	-0.1	-0.4	0.13
412.0	0.15	115.49	412.0	-0.6	0.1	-0.6	0.06
512.0	0.23	143.16	512.0	-0.8	0.4	-0.9	0.12
612.0	0.15	141.17	612.0	-1.1	0.6	-1.2	0.08
712.0	0.09	78.91	712.0	-1.1	0.7	-1.3	0.13
812.0	0.15	137.94	812.0	-1.2	0.9	-1.4	0.13
912.0	0.20	108.21	912.0	-1.4	1.2	-1.7	0.10
1,012.0	0.44	233.80	1,012.0	-1.7	1.0	-1.9	0.58

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Arters Unit 2H
Project:	Doddridge County WV	**TVD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Site:	Ruth/Walter/Caswell/Arters	**MD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Well:	Arters Unit 2H	**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)
1,112.0	4.08	253.11	1,111.9	-2.9	-2.7	-2.0	3.67
1,212.0	5.38	270.27	1,211.6	-3.9	-10.8	-0.6	1.91
1,312.0	5.86	283.15	1,311.1	-2.8	-20.5	3.4	1.35
1,412.0	5.89	300.40	1,410.6	1.0	-29.8	9.7	1.76
1,512.0	6.16	303.98	1,510.0	6.6	-38.7	17.7	0.46
1,612.0	6.26	304.26	1,609.4	12.7	-47.7	26.1	0.10
1,712.0	5.35	306.44	1,708.9	18.5	-55.9	34.1	0.94
1,812.0	2.28	315.45	1,808.7	22.7	-61.1	39.6	3.12
1,912.0	1.73	316.73	1,908.6	25.2	-63.5	42.8	0.55
2,012.0	1.32	323.26	2,008.6	27.2	-65.2	45.2	0.44
2,112.0	0.73	321.52	2,108.6	28.7	-66.3	46.9	0.59
2,212.0	0.42	335.10	2,208.6	29.5	-66.9	47.8	0.34
2,312.0	0.32	316.36	2,308.6	30.0	-67.2	48.4	0.16
2,412.0	0.12	303.55	2,408.6	30.3	-67.5	48.8	0.20
2,512.0	0.15	185.98	2,508.6	30.2	-67.6	48.7	0.23
2,612.0	0.10	132.10	2,608.6	30.0	-67.5	48.5	0.12
2,712.0	0.14	120.96	2,708.6	29.9	-67.4	48.4	0.05
2,812.0	0.18	139.62	2,808.6	29.7	-67.2	48.1	0.07
2,912.0	0.08	139.44	2,908.6	29.5	-67.0	47.9	0.10
3,012.0	0.18	155.41	3,008.6	29.3	-66.9	47.7	0.11
3,112.0	0.20	136.48	3,108.6	29.1	-66.7	47.4	0.07
3,212.0	0.22	125.75	3,208.6	28.8	-66.5	47.1	0.04
3,312.0	0.28	144.94	3,308.6	28.5	-66.2	46.7	0.10
3,412.0	0.31	136.25	3,408.6	28.1	-65.8	46.2	0.05
3,512.0	0.29	127.60	3,508.6	27.8	-65.4	45.8	0.05
3,612.0	0.27	131.44	3,608.6	27.5	-65.1	45.4	0.03
3,712.0	0.26	111.45	3,708.6	27.2	-64.7	45.0	0.09
3,812.0	0.29	122.53	3,808.6	27.0	-64.3	44.7	0.06
3,912.0	0.35	119.43	3,908.6	26.7	-63.8	44.3	0.06
4,012.0	0.29	124.97	4,008.6	26.4	-63.3	43.9	0.07
4,112.0	0.33	123.16	4,108.5	26.1	-62.9	43.4	0.04
4,212.0	0.41	108.58	4,208.5	25.9	-62.3	43.0	0.12
4,312.0	0.49	78.36	4,308.5	25.8	-61.5	42.8	0.25
4,412.0	0.66	84.60	4,408.5	26.0	-60.5	42.6	0.18
4,512.0	0.65	87.61	4,508.5	26.1	-59.4	42.3	0.04
4,612.0	0.66	99.88	4,608.5	26.0	-58.2	41.9	0.14
4,712.0	1.99	52.28	4,708.5	26.9	-56.3	42.3	1.62
4,812.0	5.49	53.51	4,808.3	30.8	-51.1	44.5	3.50
4,912.0	8.24	54.74	4,907.5	37.8	-41.4	48.3	2.75
5,012.0	10.95	52.58	5,006.1	47.7	-28.0	53.9	2.73
5,112.0	13.93	45.92	5,103.8	61.9	-11.8	62.6	3.30
5,212.0	15.13	44.79	5,200.6	79.5	6.0	74.2	1.23
5,312.0	17.74	46.78	5,296.5	99.2	26.3	87.1	2.67
5,412.0	20.96	44.41	5,390.8	122.4	50.0	102.4	3.31

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Arters Unit 2H
Project:	Doddridge County WV	**TVD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Site:	Ruth/Walter/Caswell/Arters	**MD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Well:	Arters Unit 2H	**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)
5,512.0	21.39	31.97	5,484.1	150.7	72.2	122.9	4.51
5,612.0	23.15	29.08	5,576.7	183.4	91.4	148.4	2.07
5,712.0	25.29	33.86	5,667.9	218.3	112.8	175.5	2.90
5,812.0	24.41	39.69	5,758.6	251.9	137.9	200.3	2.60
5,912.0	21.91	44.57	5,850.6	281.1	164.2	220.5	3.15
6,012.0	23.24	49.90	5,942.9	307.1	192.4	237.1	2.44
6,112.0	25.48	53.20	6,034.0	332.7	224.7	252.0	2.62
6,212.0	25.45	53.08	6,124.3	358.5	259.1	266.6	0.06
6,312.0	26.72	54.42	6,214.1	384.5	294.6	281.0	1.40
6,412.0	26.92	49.52	6,303.4	412.3	330.1	297.1	2.22
6,512.0	27.14	45.94	6,392.4	442.8	363.7	316.5	1.64
6,612.0	27.35	45.21	6,481.3	474.9	396.4	337.5	0.39
6,712.0	27.13	44.32	6,570.3	507.4	428.6	359.1	0.46
6,809.0	26.27	43.56	6,656.9	538.8	458.9	380.2	0.95
6,816.0	26.19	43.57	6,663.2	541.0	461.0	381.7	1.11
Middlesex							
6,837.0	25.96	43.62	6,682.1	547.7	467.4	386.3	1.11
6,868.0	26.16	42.36	6,709.9	557.6	476.7	393.1	1.90
6,900.0	27.56	37.71	6,738.5	568.7	486.0	400.9	7.89
6,931.0	30.52	31.34	6,765.6	581.1	494.4	410.3	13.80
6,962.0	33.30	27.21	6,791.9	595.4	502.4	421.6	11.40
6,967.0	33.60	26.97	6,796.0	597.9	503.7	423.6	6.46
Burkett							
6,992.0	35.08	25.85	6,816.7	610.5	510.0	433.8	6.46
Tully							
6,994.0	35.20	25.76	6,818.3	611.5	510.5	434.6	6.46
7,025.0	37.66	23.45	6,843.3	628.3	518.1	448.4	9.08
7,056.0	38.19	22.83	6,867.7	645.8	525.6	462.9	2.11
7,087.0	37.84	22.18	6,892.1	663.4	532.9	477.7	1.72
7,088.0	37.86	22.11	6,892.9	664.0	533.1	478.1	4.89
Hamilton							
7,119.0	38.41	19.82	6,917.3	681.9	540.0	493.2	4.89
7,140.0	39.38	17.68	6,933.7	694.4	544.2	503.9	7.88
Marcellus							
7,150.0	39.85	16.69	6,941.4	700.5	546.1	509.2	7.88
7,182.0	41.50	13.82	6,965.6	720.6	551.6	526.8	7.79
7,213.0	43.46	11.56	6,988.5	741.0	556.2	545.0	8.01
7,244.0	46.26	9.78	7,010.5	762.5	560.2	564.3	9.90
7,276.0	49.61	7.52	7,031.9	786.0	563.8	585.7	11.71
7,307.0	52.99	5.22	7,051.3	810.0	566.4	607.9	12.34
7,339.0	55.50	3.22	7,070.0	835.9	568.3	632.1	9.34
7,370.0	57.18	1.53	7,087.2	861.7	569.4	656.4	7.07
7,401.0	60.52	358.95	7,103.2	888.2	569.5	681.8	12.91
7,433.0	64.69	356.80	7,117.9	916.6	568.4	709.2	14.33
7,464.0	68.39	354.61	7,130.3	944.9	566.3	736.9	13.58

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Arters Unit 2H
Project:	Doddridge County WV	**TVD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Site:	Ruth/Walter/Caswell/Arters	**MD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Well:	Arters Unit 2H	**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)
7,495.0	72.91	351.55	7,140.5	974.0	562.8	765.7	17.30
7,527.0	76.83	349.01	7,148.9	1,004.4	557.6	796.3	14.45
7,558.0	78.32	347.21	7,155.6	1,034.0	551.3	826.5	7.43
7,589.0	80.75	345.20	7,161.2	1,063.6	544.0	856.9	10.10
7,606.0	82.64	344.73	7,163.6	1,079.9	539.7	873.7	11.45
7,696.0	90.57	344.87	7,169.0	1,166.5	516.1	963.4	8.81
7,790.0	89.73	344.54	7,168.7	1,257.2	491.3	1,057.4	0.96
7,884.0	90.40	345.16	7,168.6	1,347.9	466.8	1,151.3	0.97
7,978.0	88.29	342.33	7,169.7	1,438.1	440.5	1,245.3	3.76
8,072.0	87.05	341.83	7,173.5	1,527.5	411.6	1,339.2	1.42
8,166.0	88.39	341.91	7,177.3	1,616.7	382.4	1,433.1	1.43
8,260.0	87.62	342.04	7,180.5	1,706.1	353.3	1,527.1	0.83
8,354.0	89.63	341.39	7,182.8	1,795.3	323.8	1,621.0	2.25
8,449.0	90.00	340.67	7,183.1	1,885.1	292.9	1,716.0	0.85
8,542.0	92.75	341.03	7,180.9	1,972.9	262.4	1,808.9	2.98
8,636.0	89.87	339.05	7,178.7	2,061.3	230.3	1,902.7	3.72
8,731.0	90.54	341.84	7,178.4	2,150.8	198.6	1,997.6	3.02
8,825.0	90.54	342.37	7,177.5	2,240.2	169.7	2,091.6	0.56
8,919.0	90.10	341.89	7,177.0	2,329.7	140.8	2,185.6	0.69
9,013.0	91.27	344.52	7,175.8	2,419.7	113.7	2,279.6	3.06
9,107.0	90.47	342.88	7,174.4	2,509.9	87.3	2,373.5	1.94
9,201.0	91.01	344.43	7,173.2	2,600.1	60.8	2,467.5	1.75
9,296.0	90.30	342.71	7,172.1	2,691.2	34.0	2,562.5	1.96
9,390.0	90.70	343.44	7,171.3	2,781.1	6.6	2,656.5	0.89
9,484.0	89.83	342.05	7,170.9	2,870.9	-21.3	2,750.5	1.74
9,578.0	90.57	343.64	7,170.5	2,960.7	-49.0	2,844.5	1.87
9,672.0	90.30	342.50	7,169.8	3,050.6	-76.4	2,938.5	1.25
9,766.0	90.07	342.63	7,169.5	3,140.3	-104.5	3,032.5	0.28
9,861.0	89.25	341.47	7,170.1	3,230.6	-133.8	3,127.5	1.50
9,955.0	91.14	342.27	7,169.8	3,320.0	-163.1	3,221.4	2.18
10,049.0	90.47	341.11	7,168.4	3,409.2	-192.6	3,315.4	1.42
10,143.0	91.24	343.40	7,167.0	3,498.7	-221.2	3,409.4	2.57
10,237.0	89.36	341.26	7,166.5	3,588.3	-249.8	3,503.4	3.03
10,331.0	89.73	342.43	7,167.3	3,677.6	-279.0	3,597.3	1.31
10,425.0	90.23	343.98	7,167.3	3,767.6	-306.2	3,691.3	1.73
10,519.0	90.20	343.10	7,167.0	3,857.7	-332.8	3,785.3	0.94
10,613.0	89.80	346.14	7,167.0	3,948.3	-357.8	3,879.3	3.26
10,707.0	89.73	348.38	7,167.3	4,040.0	-378.5	3,973.0	2.38
10,802.0	90.10	349.39	7,167.5	4,133.2	-396.8	4,067.5	1.13
10,896.0	88.86	346.62	7,168.3	4,225.2	-416.3	4,161.1	3.23
10,990.0	89.06	344.49	7,170.0	4,316.2	-439.8	4,255.0	2.28
11,084.0	88.69	341.77	7,171.9	4,406.1	-467.1	4,349.0	2.92
11,178.0	90.00	342.59	7,173.0	4,495.6	-495.8	4,442.9	1.64
11,273.0	90.13	341.39	7,172.9	4,585.9	-525.2	4,537.9	1.27
11,367.0	88.82	339.57	7,173.7	4,674.5	-556.6	4,631.8	2.39

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Project:	Doddridge County WV	**TVD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Site:	Ruth/Walter/Caswell/Arters	**MD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Well:	Arters Unit 2H	**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)
11,461.0	88.36	338.80	7,176.0	4,762.4	-590.0	4,725.6	0.95
11,555.0	89.90	341.42	7,177.5	4,850.7	-622.0	4,819.5	3.23
11,646.0	90.10	341.17	7,177.5	4,936.9	-651.1	4,910.4	0.35
11,738.0	89.77	341.22	7,177.6	5,024.0	-680.8	5,002.4	0.36
11,830.0	88.59	345.64	7,178.9	5,112.2	-707.0	5,094.4	4.97
11,922.0	89.83	344.76	7,180.2	5,201.1	-730.5	5,186.3	1.65
12,015.0	90.10	345.05	7,180.2	5,290.9	-754.7	5,279.2	0.43
12,108.0	89.87	341.46	7,180.2	5,379.9	-781.5	5,372.2	3.87
12,200.0	89.87	344.62	7,180.4	5,467.9	-808.4	5,464.2	3.43
12,293.0	90.03	344.99	7,180.5	5,557.7	-832.7	5,557.1	0.43
12,384.0	88.72	342.71	7,181.5	5,645.1	-858.1	5,648.1	2.89
12,476.0	90.00	343.44	7,182.5	5,733.1	-884.8	5,740.1	1.60
12,569.0	89.46	342.00	7,183.0	5,821.9	-912.5	5,833.1	1.65
12,755.0	90.13	343.42	7,183.6	5,999.5	-967.7	6,019.1	0.84
12,850.0	89.63	342.80	7,183.8	6,090.4	-995.3	6,114.1	0.84
12,944.0	88.83	341.29	7,185.1	6,179.8	-1,024.3	6,208.1	1.82
13,038.0	90.37	342.76	7,185.8	6,269.2	-1,053.3	6,302.0	2.26
13,132.0	89.06	341.31	7,186.2	6,358.6	-1,082.3	6,396.0	2.08
13,226.0	90.66	342.44	7,186.5	6,447.9	-1,111.5	6,490.0	2.08
13,320.0	88.96	341.31	7,186.8	6,537.2	-1,140.8	6,584.0	2.17
13,415.0	89.87	343.76	7,187.7	6,627.9	-1,169.3	6,679.0	2.75
13,509.0	91.68	345.31	7,186.5	6,718.4	-1,194.4	6,772.9	2.53
13,603.0	91.10	343.94	7,184.2	6,809.0	-1,219.3	6,866.8	1.58
13,697.0	90.57	345.77	7,182.8	6,899.8	-1,243.8	6,960.8	2.03
13,791.0	88.52	343.65	7,183.6	6,990.4	-1,268.6	7,054.7	3.14
13,885.0	89.26	346.70	7,185.4	7,081.3	-1,292.7	7,148.6	3.34
13,979.0	88.32	346.19	7,187.4	7,172.6	-1,314.7	7,242.4	1.14
14,074.0	88.93	346.90	7,189.7	7,265.0	-1,336.8	7,337.2	0.99
14,168.0	88.78	344.96	7,191.5	7,356.1	-1,359.6	7,431.0	2.07
14,262.0	88.56	343.45	7,193.7	7,446.6	-1,385.2	7,525.0	1.62
14,356.0	91.21	345.06	7,193.9	7,537.0	-1,410.7	7,619.0	3.30
14,450.0	90.54	344.96	7,192.5	7,627.8	-1,435.0	7,712.9	0.72
14,544.0	89.46	341.51	7,192.5	7,717.8	-1,462.1	7,806.9	3.85
14,639.0	89.08	340.94	7,193.7	7,807.8	-1,492.7	7,901.8	0.72
14,733.0	89.13	341.29	7,195.1	7,896.7	-1,523.1	7,995.8	0.38
14,827.0	88.12	340.44	7,197.4	7,985.5	-1,553.9	8,089.7	1.40
14,921.0	90.57	343.02	7,198.5	8,074.7	-1,583.4	8,183.6	3.78
15,015.0	90.91	342.65	7,197.3	8,164.5	-1,611.1	8,277.6	0.53
15,110.0	90.50	342.43	7,196.1	8,255.1	-1,639.6	8,372.6	0.49
15,204.0	90.00	341.20	7,195.7	8,344.4	-1,669.0	8,466.6	1.41
15,298.0	92.12	342.44	7,193.9	8,433.7	-1,698.3	8,560.5	2.61
15,392.0	90.20	342.96	7,192.0	8,523.4	-1,726.2	8,654.5	2.12
15,486.0	90.34	343.63	7,191.6	8,613.5	-1,753.3	8,748.5	0.73
15,580.0	89.09	343.59	7,192.1	8,703.6	-1,779.8	8,842.5	1.33

Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Arters Unit 2H
Project:	Doddridge County WV	**TVD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Site:	Ruth/Walter/Caswell/Arters	**MD Reference:**	Arters 1H 1050 GL + 25 KB @ 1075.0usft
Well:	Arters Unit 2H	**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)
15,674.0	89.29	344.05	7,193.4	8,793.9	-1,806.0	8,936.5	0.53
15,769.0	89.03	343.98	7,194.8	8,885.2	-1,832.1	9,031.5	0.28
15,863.0	88.32	343.79	7,197.0	8,975.5	-1,858.2	9,125.4	0.78
15,957.0	88.82	342.60	7,199.3	9,065.5	-1,885.4	9,219.4	1.37
16,051.0	89.46	344.44	7,200.7	9,155.6	-1,912.0	9,313.4	2.07
16,146.0	89.93	346.11	7,201.2	9,247.5	-1,936.2	9,408.3	1.83
16,240.0	89.90	346.41	7,201.4	9,338.8	-1,958.5	9,502.1	0.32
16,334.0	89.63	345.49	7,201.8	9,430.0	-1,981.3	9,596.0	1.02
16,428.0	88.96	343.32	7,202.9	9,520.5	-2,006.6	9,689.9	2.42
16,522.0	90.23	343.02	7,203.6	9,610.5	-2,033.8	9,783.9	1.39
16,617.0	89.33	341.31	7,203.9	9,700.9	-2,062.9	9,878.9	2.03
16,710.0	88.99	341.52	7,205.3	9,789.0	-2,092.5	9,971.9	0.43
16,805.0	90.20	343.73	7,206.0	9,879.7	-2,120.9	10,066.9	2.65
16,897.0	88.36	340.86	7,207.1	9,967.3	-2,148.9	10,158.8	3.71
16,992.0	87.99	341.28	7,210.2	10,057.1	-2,179.7	10,253.7	0.59
17,086.0	89.90	342.20	7,211.9	10,146.4	-2,209.1	10,347.7	2.26
17,180.0	90.34	343.16	7,211.7	10,236.1	-2,237.1	10,441.7	1.12
17,275.0	90.01	341.81	7,211.4	10,326.7	-2,265.7	10,536.7	1.46
17,370.0	88.99	341.53	7,212.2	10,416.9	-2,295.6	10,631.7	1.11
17,464.0	88.66	340.71	7,214.2	10,505.8	-2,326.0	10,725.6	0.94
17,559.0	89.13	340.03	7,216.0	10,595.3	-2,357.9	10,820.5	0.87
17,653.0	90.50	341.62	7,216.3	10,684.0	-2,388.8	10,914.4	2.23
17,748.0	89.50	339.41	7,216.3	10,773.6	-2,420.5	11,009.3	2.55
17,843.0	88.76	337.91	7,217.7	10,862.1	-2,455.0	11,104.1	1.76
17,938.0	89.26	339.33	7,219.4	10,950.5	-2,489.7	11,198.8	1.58
18,033.0	90.30	339.70	7,219.7	11,039.5	-2,522.9	11,293.6	1.16
18,127.0	89.83	341.26	7,219.6	11,128.1	-2,554.3	11,387.5	1.73
18,221.0	89.26	339.90	7,220.4	11,216.7	-2,585.6	11,481.4	1.57
18,244.0	89.09	339.06	7,220.7	11,238.3	-2,593.6	11,504.4	3.73
18,301.0	89.09	339.06	7,221.6	11,291.5	-2,614.0	11,561.2	0.00
PTB							

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
6,816.0	6,663.2	541.0	461.0	Middlesex
6,967.0	6,796.0	597.9	503.7	Burkett
6,992.0	6,816.7	610.5	510.0	Tully
7,088.0	6,892.9	664.0	533.1	Hamilton
7,140.0	6,933.7	694.4	544.2	Marcellus
18,301.0	7,221.6	11,291.5	-2,614.0	PTB

Checked By: _____ Approved By: _____ Date: _____