



Rikk Unit 2H
Doddridge County WW
Northing: 14258783.90
Easting: 1754604.68
As Drilled



WELL DETAILS Rikk Unit 2H

+N/-S	+E/-W	Northing	Easting	Ground Level	Rikk Unit 2H
0.0	0.0	14258783.90	1754604.68	1318.0	
					Latitude
					Longitude

SITE DETAILS: Rikk/Pratt/Blackwood/Inrofs

Site Center	Rikk Unit 1H
Site Centre Northing	14258782.29
Site Centre Easting	1754594.81
Positional Uncertainty	2.0
Convergence	0.26
Local North	Grid

LEGEND

- Rikk Unit 1H, Original Wellpath, As Drilled V0
- Rikk Unit 2H, Original Wellpath, Plan 6 V0
- As Drilled

PROJECT DETAILS: Doddridge County WW

Geodetic System: Universal Transverse Mercator (U.S. Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 17N (84 W to 78 W)
System Datum: Mean Sea Level

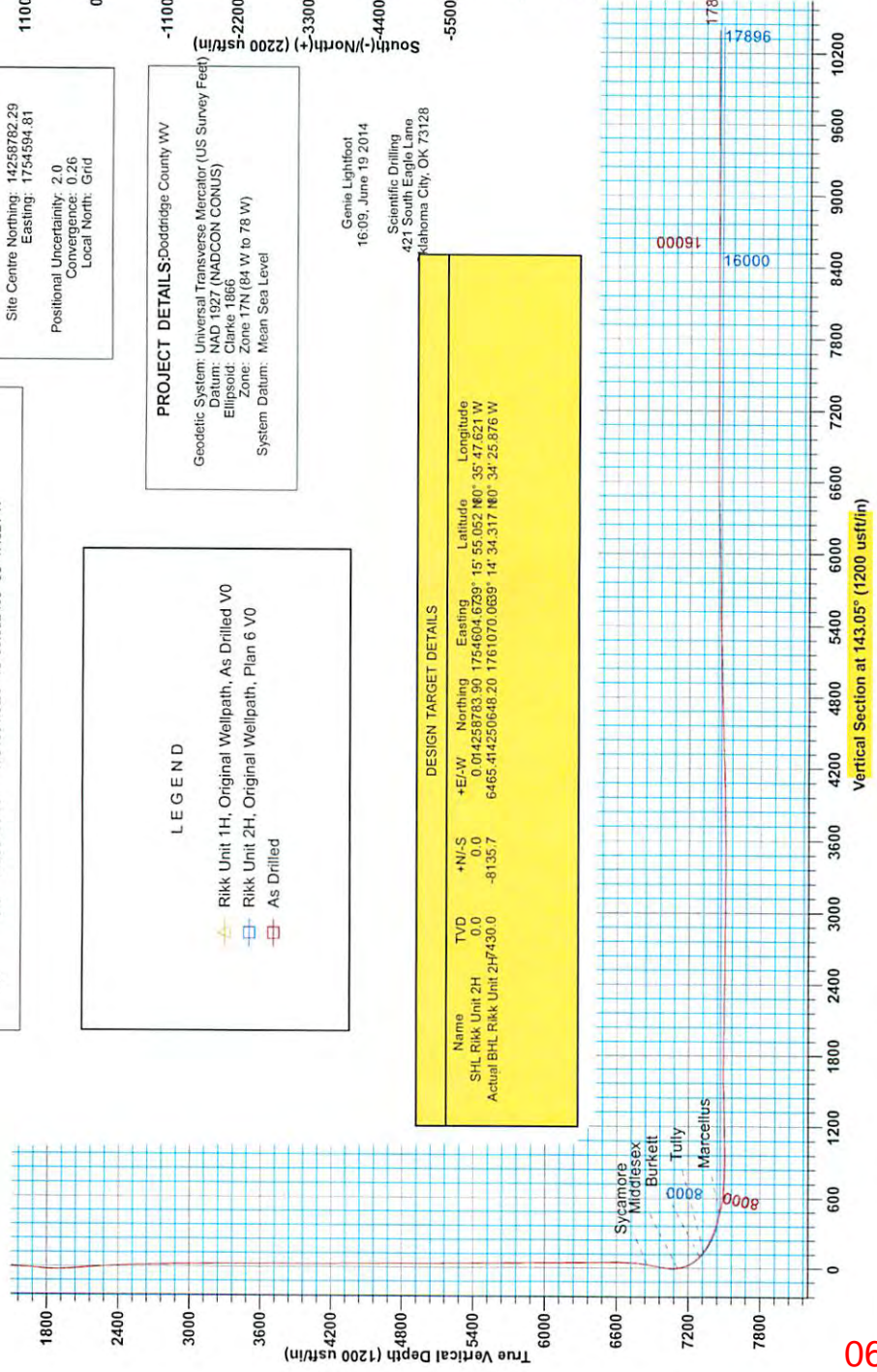
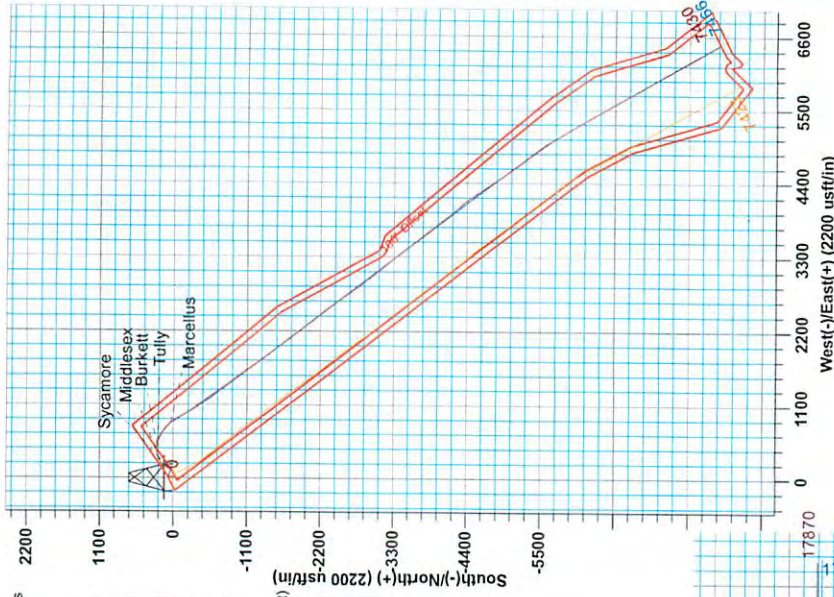
Genie Lightfoot
16.09, June 19 2014
Scientific Drilling
421 South Engle Lane
Alaboma City, OK 73128

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Rikk Unit 2H	0.0	0.0	0.0	14258783.90	1754604.68	15° 55' 05.2" N	100° 35' 47.621" W
Actual BHL Rikk Unit 2H	430.0	-8135.7	6465.414250648.20	1761070.0639	14.34317180	34° 25' 87.6" W	

Azimuths to Grid North
True North: -0.25°
Magnetic North: -8.83°
Magnetic Field Strength: 52315.95nT
Dip Angle: 66.81°
Date: 12/27/2013
Model: IGRF2010

To convert Magnetic North to Grid, Subtract 8.83°
To convert True North to Grid, Subtract 0.25°





Antero Resources

Doddridge County WV
Rikk/Pratt/Blackwood/Irons
Rikk Unit 2H
Original Wellpath

Design: As Drilled

EOW Completion Report

19 June, 2014

Received
Office of Oil & Gas
MAY 18 2015



06/05/2015



Company:	Antero Resources	Local Co-ordinate Reference:	Well Rikk Unit 2H
Project:	Doddridge County WV	TVD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Site:	Rikk/Pratt/Blackwood/Irons	MD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Well:	Rikk 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 Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Rikk/Pratt/Blackwood/Irons			
Site Position:	Northing:	14,258,782.29 usft	Latitude:	39° 15' 55.036 N
From: Map	Easting:	1,754,594.81 usft	Longitude:	80° 35' 47.747 W
Position Uncertainty: 2.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.26 °

Well	Rikk Unit 2H			
Well Position	+N/-S	0.0 usft	Northing:	14,258,783.90 usft
	+E/-W	0.0 usft	Easting:	1,754,604.68 usft
Position Uncertainty	2.0 usft		Wellhead Elevation:	1,340.5 usft
			Ground Level:	1,318.0 usft

Wellbore	Original Wellpath			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/27/2013	-8.58	66.81	52,316

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	143.05

Survey Program	Date 6/19/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
109.5	6,634.5	Survey #4 Final Gyro (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
6,694.0	17,870.0	Survey #5 MWD (Original Wellpath)	SDI MWD	Scientific Drilling Intl. MWD - Standard ver 1.0.1

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	190.69	109.5	-0.5	-0.1	0.3	0.47
209.5	0.22	172.05	209.5	-1.1	-0.1	0.8	0.32
309.5	0.33	207.12	309.5	-1.6	-0.3	1.1	0.20
409.5	0.22	209.48	409.5	-2.0	-0.5	1.3	0.11
509.5	0.09	260.19	509.5	-2.2	-0.7	1.3	0.18
609.5	0.05	255.25	609.5	-2.2	-0.8	1.3	0.04
709.5	0.13	46.30	709.5	-2.1	-0.7	1.3	0.18
809.5	0.18	152.34	809.5	-2.2	-0.6	1.4	0.25
909.5	0.19	152.54	909.5	-2.5	-0.4	1.7	0.01
1,009.5	0.16	197.61	1,009.5	-2.8	-0.4	2.0	0.14



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MAY 18 2015

EOW Completion Report



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Well:	Rikk Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

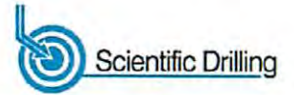
Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
1,109.5	0.20	190.56	1,109.5	-3.1	-0.5	2.2	0.05
1,209.5	0.36	202.99	1,209.5	-3.5	-0.6	2.4	0.17
1,309.5	0.64	48.61	1,309.5	-3.4	-0.3	2.6	0.98
1,409.5	3.52	30.21	1,409.4	-0.4	1.6	1.3	2.92
1,509.5	7.18	23.79	1,509.0	8.0	5.7	-2.9	3.70
1,609.5	7.96	21.61	1,608.1	20.1	10.8	-9.6	0.83
1,709.5	8.13	19.98	1,707.1	33.2	15.7	-17.1	0.28
1,809.5	7.46	27.97	1,806.2	45.6	21.2	-23.7	1.27
1,909.5	6.49	52.32	1,905.5	54.8	28.7	-26.5	3.08
2,009.5	6.41	94.62	2,004.9	57.8	38.8	-22.9	4.65
2,109.5	6.12	111.01	2,104.3	55.4	49.3	-14.6	1.81
2,209.5	5.19	111.80	2,203.8	51.8	58.5	-6.3	0.93
2,309.5	4.14	111.35	2,303.5	48.8	66.0	0.7	1.05
2,409.5	3.22	114.76	2,403.3	46.3	72.0	6.2	0.95
2,509.5	2.32	117.42	2,503.2	44.2	76.3	10.5	0.91
2,609.5	1.67	121.37	2,603.1	42.5	79.3	13.7	0.66
2,709.5	1.17	120.71	2,703.1	41.3	81.5	16.0	0.50
2,809.5	1.01	117.71	2,803.0	40.3	83.1	17.7	0.17
2,909.5	0.81	137.73	2,903.0	39.4	84.4	19.2	0.37
3,009.5	0.73	127.54	3,003.0	38.5	85.4	20.6	0.16
3,109.5	0.67	112.28	3,103.0	37.9	86.4	21.7	0.20
3,209.5	0.66	129.96	3,203.0	37.3	87.4	22.7	0.20
3,309.5	0.58	119.10	3,303.0	36.7	88.3	23.8	0.14
3,409.5	0.42	125.85	3,403.0	36.2	89.0	24.6	0.17
3,509.5	0.37	152.42	3,503.0	35.7	89.5	25.2	0.19
3,609.5	0.30	142.93	3,603.0	35.2	89.8	25.8	0.09
3,709.5	0.27	130.04	3,703.0	34.8	90.1	26.3	0.07
3,809.5	0.22	111.02	3,803.0	34.6	90.5	26.7	0.09
3,909.5	0.24	131.20	3,903.0	34.4	90.8	27.1	0.08
4,009.5	0.30	153.93	4,003.0	34.0	91.1	27.5	0.12
4,109.5	0.27	140.22	4,103.0	33.6	91.3	28.0	0.07
4,209.5	0.28	144.46	4,203.0	33.2	91.6	28.5	0.02
4,309.5	0.27	139.89	4,303.0	32.9	91.9	29.0	0.02
4,409.5	0.36	133.82	4,403.0	32.5	92.3	29.5	0.10
4,509.5	0.35	112.91	4,503.0	32.1	92.8	30.1	0.13
4,609.5	0.33	111.00	4,603.0	31.9	93.4	30.6	0.02
4,709.5	0.53	98.33	4,703.0	31.7	94.1	31.2	0.22
4,809.5	0.51	89.40	4,803.0	31.7	95.0	31.8	0.08
4,909.5	0.62	95.51	4,903.0	31.6	96.0	32.4	0.13
5,009.5	0.68	94.23	5,003.0	31.5	97.1	33.2	0.06
5,109.5	0.58	103.88	5,103.0	31.4	98.2	34.0	0.15
5,209.5	0.55	98.79	5,202.9	31.2	99.2	34.7	0.06
5,309.5	0.83	87.14	5,302.9	31.1	100.4	35.4	0.31
5,409.5	0.75	93.09	5,402.9	31.1	101.7	36.3	0.11



Company:	Antero Resources	Local Co-ordinate Reference:	Well Rikk Unit 2H
Project:	Doddridge County WV	TVD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Site:	Rikk/Pratt/Blackwood/Irons	MD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Well:	Rikk 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)		
5,509.5	0.80	79.29	5,502.9	31.2	103.1	37.0	0.19		
5,609.5	0.77	86.68	5,602.9	31.4	104.4	37.7	0.11		
5,709.5	0.84	81.57	5,702.9	31.5	105.8	38.4	0.10		
5,809.5	0.89	80.71	5,802.9	31.8	107.3	39.1	0.05		
5,909.5	0.91	91.76	5,902.9	31.9	108.9	40.0	0.17		
6,009.5	0.78	94.07	6,002.9	31.8	110.3	40.9	0.13		
6,109.5	0.70	97.28	6,102.9	31.7	111.6	41.8	0.09		
6,209.5	0.73	111.33	6,202.9	31.4	112.8	42.8	0.18		
6,309.5	0.86	117.29	6,302.8	30.8	114.1	44.0	0.15		
6,409.5	0.78	110.75	6,402.8	30.2	115.4	45.2	0.12		
6,509.5	0.95	112.93	6,502.8	29.6	116.8	46.5	0.17		
6,609.5	0.82	106.98	6,602.8	29.1	118.2	47.8	0.16		
6,634.5	0.81	117.53	6,627.8	29.0	118.6	48.1	0.60		
6,694.0	3.30	37.92	6,687.3	30.1	120.0	48.0	5.47		
6,725.0	7.47	32.56	6,718.1	32.5	121.6	47.1	13.53		
6,756.0	12.05	27.11	6,748.7	37.1	124.2	45.0	15.06		
6,788.0	15.74	25.17	6,779.7	44.0	127.6	41.5	11.62		
6,819.0	18.91	25.88	6,809.3	52.4	131.5	37.2	10.25		
6,850.0	21.28	28.95	6,838.4	61.8	136.5	32.6	8.37		
6,870.0	22.86	31.35	6,857.0	68.3	140.2	29.7	9.11		
Sycamore									
6,882.0	23.83	32.64	6,868.0	72.3	142.8	28.0	9.11		
6,913.0	26.73	33.87	6,896.0	83.4	150.0	23.5	9.51		
6,944.0	29.28	34.67	6,923.4	95.4	158.2	18.9	8.31		
6,976.0	31.83	34.40	6,950.9	108.8	167.4	13.7	7.98		
7,007.0	35.35	33.08	6,976.8	123.1	177.0	8.0	11.60		
7,039.0	37.84	36.89	7,002.4	138.7	187.9	2.1	10.53		
7,071.0	39.39	42.40	7,027.5	154.0	200.6	-2.5	11.78		
7,102.0	39.92	48.82	7,051.3	167.9	214.8	-5.0	13.32		
7,134.0	40.71	55.58	7,075.7	180.5	231.1	-5.3	13.88		
7,166.0	41.50	60.15	7,099.9	191.7	248.9	-3.6	9.71		
7,182.0	42.54	61.35	7,111.7	196.9	258.3	-2.1	8.23		
Middlesex									
7,197.0	43.53	62.44	7,122.7	201.8	267.3	-0.6	8.23		
7,229.0	46.69	66.13	7,145.3	211.6	287.7	3.9	12.81		
7,260.0	48.54	69.56	7,166.2	220.2	308.9	9.7	10.12		
7,292.0	50.03	73.25	7,187.1	227.9	331.9	17.4	9.90		
7,324.0	51.09	76.68	7,207.4	234.3	355.8	26.6	8.92		
7,355.0	52.23	82.13	7,226.6	238.8	379.7	37.4	14.27		
7,387.0	52.94	87.40	7,246.1	241.1	405.0	50.8	13.27		
7,418.0	54.61	90.65	7,264.4	241.5	430.0	65.4	10.03		
7,450.0	56.35	93.56	7,282.6	240.5	456.3	82.1	9.26		
7,477.0	58.21	96.68	7,297.2	238.5	478.9	97.3	11.90		
Burkett									
7,482.0	58.56	97.24	7,299.8	238.0	483.1	100.2	11.90		



Company:	Antero Resources	Local Co-ordinate Reference:	Well Rikk Unit 2H
Project:	Doddridge County WV	TVD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Site:	Rikk/Pratt/Blackwood/Irons	MD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Well:	Rikk 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)	
7,513.0	59.92	102.27	7,315.6	233.5	509.4	119.6	14.62	
7,540.0	60.54	106.34	7,329.0	227.7	532.1	137.9	13.29	
Tully								
7,545.0	60.67	107.09	7,331.5	226.4	536.3	141.4	13.29	
7,576.0	61.55	110.60	7,346.5	217.7	561.9	163.8	10.31	
7,608.0	63.14	113.86	7,361.3	206.9	588.2	188.2	10.30	
7,640.0	65.77	117.20	7,375.1	194.5	614.2	213.8	12.50	
7,671.0	67.97	119.04	7,387.3	181.0	639.3	239.6	8.95	
7,703.0	69.29	121.06	7,399.0	166.1	665.1	267.1	7.18	
7,734.0	70.52	122.82	7,409.6	150.7	689.8	294.2	6.65	
7,766.0	71.40	125.02	7,420.1	133.8	714.9	322.8	7.06	
7,798.0	71.84	127.74	7,430.2	115.8	739.4	351.9	8.18	
7,829.0	73.00	132.27	7,439.5	96.8	762.0	380.7	14.42	
7,861.0	74.30	133.37	7,448.5	76.0	784.5	410.9	5.23	
7,893.0	75.45	135.12	7,456.9	54.4	806.7	441.4	6.39	
7,914.0	75.82	138.19	7,462.1	39.6	820.6	461.6	14.28	
Marcellus								
7,924.0	76.01	139.65	7,464.5	32.3	827.0	471.3	14.28	
7,956.0	77.03	143.47	7,472.0	7.9	846.3	502.4	12.04	
7,987.0	77.91	146.29	7,478.7	-16.8	863.7	532.6	9.32	
8,019.0	79.05	148.48	7,485.1	-43.2	880.6	563.9	7.59	
8,076.0	84.59	149.98	7,493.2	-91.7	909.5	620.0	10.06	
8,171.0	87.67	149.10	7,499.6	-173.4	957.5	714.1	3.37	
8,266.0	89.25	148.13	7,502.2	-254.4	1,007.0	808.7	1.95	
8,361.0	89.96	143.83	7,502.8	-333.2	1,060.1	903.5	4.59	
8,456.0	89.69	143.47	7,503.1	-409.7	1,116.4	998.5	0.47	
8,551.0	89.97	141.43	7,503.4	-485.0	1,174.3	1,093.5	2.17	
8,646.0	90.75	143.30	7,502.8	-560.2	1,232.3	1,188.5	2.13	
8,741.0	92.07	145.94	7,500.5	-637.6	1,287.3	1,283.4	3.11	
8,836.0	91.54	144.79	7,497.5	-715.8	1,341.3	1,378.3	1.33	
8,930.0	91.19	143.56	7,495.2	-792.0	1,396.3	1,472.2	1.36	
9,025.0	90.57	145.32	7,493.8	-869.2	1,451.5	1,567.2	1.96	
9,120.0	88.81	142.60	7,494.3	-946.0	1,507.4	1,662.2	3.41	
9,215.0	89.16	143.64	7,496.0	-1,022.0	1,564.4	1,757.1	1.15	
9,310.0	90.66	146.20	7,496.1	-1,099.7	1,619.0	1,852.1	3.12	
9,404.0	89.78	145.58	7,495.8	-1,177.6	1,671.7	1,946.0	1.15	
9,499.0	90.48	145.85	7,495.6	-1,256.1	1,725.2	2,040.9	0.79	
9,594.0	89.34	144.18	7,495.7	-1,333.9	1,779.7	2,135.8	2.13	
9,689.0	89.08	142.51	7,497.0	-1,410.1	1,836.4	2,230.8	1.78	
9,784.0	88.11	141.80	7,499.3	-1,485.1	1,894.7	2,325.7	1.27	
9,879.0	89.52	143.65	7,501.3	-1,560.7	1,952.2	2,420.7	2.45	
9,974.0	88.99	143.47	7,502.5	-1,637.1	2,008.6	2,515.7	0.59	
10,068.0	89.78	143.47	7,503.6	-1,712.6	2,064.6	2,609.7	0.84	
10,163.0	89.40	144.02	7,504.2	-1,789.2	2,120.7	2,704.7	0.70	
10,258.0	90.81	142.35	7,504.1	-1,865.3	2,177.7	2,799.7	2.30	



MAY 18 2015

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
10,353.0	89.87	140.75	7,503.5	-1,939.7	2,236.7	2,894.6	1.95
10,447.0	89.87	140.31	7,503.7	-2,012.2	2,296.5	2,988.5	0.47
10,542.0	89.34	143.12	7,504.4	-2,086.8	2,355.3	3,083.5	3.01
10,638.0	89.16	142.16	7,505.6	-2,163.1	2,413.6	3,179.5	1.02
10,732.0	89.25	142.68	7,506.9	-2,237.6	2,470.9	3,273.5	0.56
10,827.0	89.69	143.74	7,507.8	-2,313.6	2,527.8	3,368.5	1.21
10,922.0	89.60	143.74	7,508.4	-2,390.2	2,584.0	3,463.5	0.09
11,017.0	89.60	143.65	7,509.1	-2,466.8	2,640.2	3,558.5	0.09
11,112.0	91.28	144.70	7,508.3	-2,543.8	2,695.8	3,653.4	2.09
11,207.0	90.92	144.79	7,506.5	-2,621.4	2,750.6	3,748.4	0.39
11,301.0	91.54	146.46	7,504.5	-2,698.9	2,803.7	3,842.3	1.89
11,392.0	90.04	144.27	7,503.2	-2,773.8	2,855.4	3,933.2	2.92
11,484.0	91.28	144.00	7,502.2	-2,848.4	2,909.3	4,025.1	1.38
11,575.0	91.89	142.24	7,499.6	-2,921.1	2,963.9	4,116.1	2.05
11,666.0	91.98	140.93	7,496.6	-2,992.4	3,020.4	4,207.0	1.44
11,758.0	91.80	140.49	7,493.5	-3,063.5	3,078.6	4,298.9	0.52
11,850.0	91.54	141.01	7,490.9	-3,134.8	3,136.8	4,390.8	0.63
11,940.0	92.24	140.84	7,487.9	-3,204.6	3,193.5	4,480.7	0.80
12,032.0	92.07	140.49	7,484.4	-3,275.7	3,251.8	4,572.5	0.42
12,124.0	92.42	145.15	7,480.8	-3,348.9	3,307.3	4,664.4	5.08
12,216.0	90.48	141.37	7,478.5	-3,422.6	3,362.3	4,756.4	4.62
12,306.0	90.75	141.98	7,477.5	-3,493.2	3,418.1	4,846.3	0.74
12,397.0	91.63	143.03	7,475.6	-3,565.4	3,473.5	4,937.3	1.51
12,492.0	92.42	143.47	7,472.3	-3,641.5	3,530.3	5,032.2	0.95
12,587.0	90.57	143.12	7,469.8	-3,717.6	3,587.1	5,127.2	1.98
12,682.0	91.63	143.21	7,468.0	-3,793.6	3,644.0	5,222.2	1.12
12,777.0	91.98	143.74	7,465.0	-3,869.9	3,700.5	5,317.1	0.67
12,871.0	90.66	140.57	7,462.8	-3,944.1	3,758.2	5,411.1	3.65
12,966.0	90.48	142.51	7,461.9	-4,018.5	3,817.3	5,506.0	2.05
13,061.0	90.40	141.72	7,461.2	-4,093.5	3,875.6	5,601.0	0.84
13,156.0	90.31	139.61	7,460.6	-4,166.9	3,935.8	5,695.9	2.22
13,251.0	91.19	138.90	7,459.3	-4,238.9	3,997.8	5,790.7	1.19
13,346.0	91.01	139.70	7,457.5	-4,310.9	4,059.8	5,885.5	0.86
13,441.0	90.92	142.16	7,455.9	-4,384.7	4,119.6	5,980.4	2.59
13,535.0	92.07	146.29	7,453.4	-4,460.9	4,174.5	6,074.3	4.56
13,630.0	92.68	147.43	7,449.5	-4,540.4	4,226.4	6,169.1	1.36
13,725.0	91.31	146.03	7,446.2	-4,619.7	4,278.5	6,263.8	2.06
13,820.0	91.01	145.94	7,444.3	-4,698.5	4,331.6	6,358.6	0.33
13,915.0	91.28	145.76	7,442.4	-4,777.1	4,385.0	6,453.5	0.34
14,010.0	89.87	144.27	7,441.4	-4,854.9	4,439.4	6,548.5	2.16
14,105.0	90.75	144.88	7,440.9	-4,932.3	4,494.5	6,643.4	1.13
14,200.0	91.71	145.41	7,438.9	-5,010.2	4,548.8	6,738.3	1.15
14,295.0	89.87	144.00	7,437.6	-5,087.8	4,603.7	6,833.3	2.44
14,390.0	90.22	144.35	7,437.5	-5,164.8	4,659.3	6,928.3	0.52



Received

Office of Oil & Gas EOW Completion Report



MAY 18 2015

Company:	Antero Resources	Local Co-ordinate Reference:	Well Rikk Unit 2H
Project:	Doddridge County WV	TVD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Site:	Rikk/Pratt/Blackwood/Irons	MD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Well:	Rikk 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)
14,485.0	89.78	143.03	7,437.5	-5,241.3	4,715.5	7,023.2	1.46
14,580.0	90.04	143.21	7,437.6	-5,317.3	4,772.5	7,118.2	0.33
14,675.0	89.87	142.24	7,437.7	-5,392.9	4,830.1	7,213.2	1.04
14,770.0	90.30	143.30	7,437.6	-5,468.6	4,887.5	7,308.2	1.20
14,865.0	89.78	144.70	7,437.5	-5,545.4	4,943.4	7,403.2	1.57
14,961.0	90.04	148.22	7,437.7	-5,625.4	4,996.4	7,499.0	3.68
15,056.0	90.31	149.01	7,437.4	-5,706.5	5,045.9	7,593.6	0.88
15,151.0	90.13	147.17	7,437.0	-5,787.2	5,096.1	7,688.2	1.95
15,245.0	90.57	146.90	7,436.4	-5,866.0	5,147.2	7,782.0	0.55
15,340.0	89.60	148.57	7,436.3	-5,946.3	5,198.0	7,876.7	2.03
15,435.0	90.13	150.24	7,436.5	-6,028.1	5,246.3	7,971.1	1.84
15,530.0	90.04	149.63	7,436.4	-6,110.3	5,293.9	8,065.4	0.65
15,625.0	89.34	148.40	7,436.9	-6,191.8	5,342.8	8,159.9	1.49
15,720.0	90.66	151.38	7,436.9	-6,273.9	5,390.5	8,254.2	3.43
15,815.0	90.48	150.51	7,435.9	-6,357.0	5,436.6	8,348.3	0.94
15,909.0	89.43	149.10	7,436.0	-6,438.2	5,483.9	8,441.6	1.87
16,004.0	89.93	149.63	7,436.5	-6,520.0	5,532.3	8,536.0	0.77
16,099.0	90.31	149.98	7,436.3	-6,602.1	5,580.0	8,630.4	0.54
16,194.0	90.20	148.88	7,435.9	-6,683.9	5,628.4	8,724.8	1.16
16,289.0	89.90	148.89	7,435.8	-6,765.2	5,677.5	8,819.3	0.32
16,384.0	90.67	151.11	7,435.4	-6,847.5	5,725.0	8,913.6	2.47
16,479.0	89.52	150.42	7,435.2	-6,930.4	5,771.3	9,007.7	1.41
16,573.0	89.25	149.89	7,436.2	-7,011.9	5,818.1	9,101.0	0.63
16,668.0	90.31	151.12	7,436.6	-7,094.6	5,864.9	9,195.2	1.71
16,763.0	90.31	150.95	7,436.1	-7,177.7	5,910.9	9,289.3	0.18
16,858.0	90.48	150.33	7,435.4	-7,260.5	5,957.5	9,383.4	0.68
16,953.0	91.45	151.03	7,433.8	-7,343.3	6,004.0	9,477.6	1.26
17,047.0	90.31	150.07	7,432.4	-7,425.1	6,050.2	9,570.8	1.59
17,142.0	91.01	150.33	7,431.3	-7,507.6	6,097.4	9,665.0	0.79
17,236.0	89.60	150.42	7,430.8	-7,589.3	6,143.9	9,758.3	1.50
17,331.0	89.90	149.89	7,431.2	-7,671.7	6,191.1	9,852.5	0.64
17,426.0	90.22	149.45	7,431.1	-7,753.7	6,239.1	9,946.9	0.57
17,521.0	90.13	149.45	7,430.8	-7,835.5	6,287.4	10,041.3	0.09
17,615.0	90.66	149.36	7,430.1	-7,916.4	6,335.3	10,134.7	0.57
17,710.0	89.87	149.60	7,429.7	-7,998.2	6,383.5	10,229.1	0.87
17,810.0	89.93	149.04	7,429.9	-8,084.2	6,434.5	10,328.5	0.56
17,870.0	89.93	149.04	7,430.0	-8,135.7	6,465.4	10,388.2	0.00

Company:	Antero Resources	Local Co-ordinate Reference:	Well Rikk Unit 2H
Project:	Doddridge County WV	TVD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Site:	Rikk/Pratt/Blackwood/Irons	MD Reference:	PATT 317: Rikk 2H 1318 GL + 22.5 KB @ 1340.5
Well:	Rikk Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,870.0	6,857.0	68.3	140.2	Sycamore
7,182.0	7,111.7	196.9	258.3	Middlesex
7,477.0	7,297.2	238.5	478.9	Burkett
7,540.0	7,329.0	227.7	532.1	Tully
7,914.0	7,462.1	39.6	820.6	Marcellus

Checked By: _____ Approved By: _____ Date: _____

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