



Weigle Unit 2H
Tyler County WV
 Northing: 14326552.31
 Easting: 1680219.07
 As Drilled



To convert Magnetic North to Grid, Subtract 8.65°
 To convert True North to Grid, Subtract 0.09°

Azimuths to Grid North
 True North: -0.09°
 Magnetic North: -8.55°

Magnetic Field
 Strength: 52234.9nT
 Dip Angle: 66.93°
 Date: 5/4/2015
 Model: BGGM2014

WELL DETAILS Weigle Unit 2H					
Ground Level: 1201.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14326552.31	1680219.07	39° 27' 7.325 N	80° 51' 32.395 W

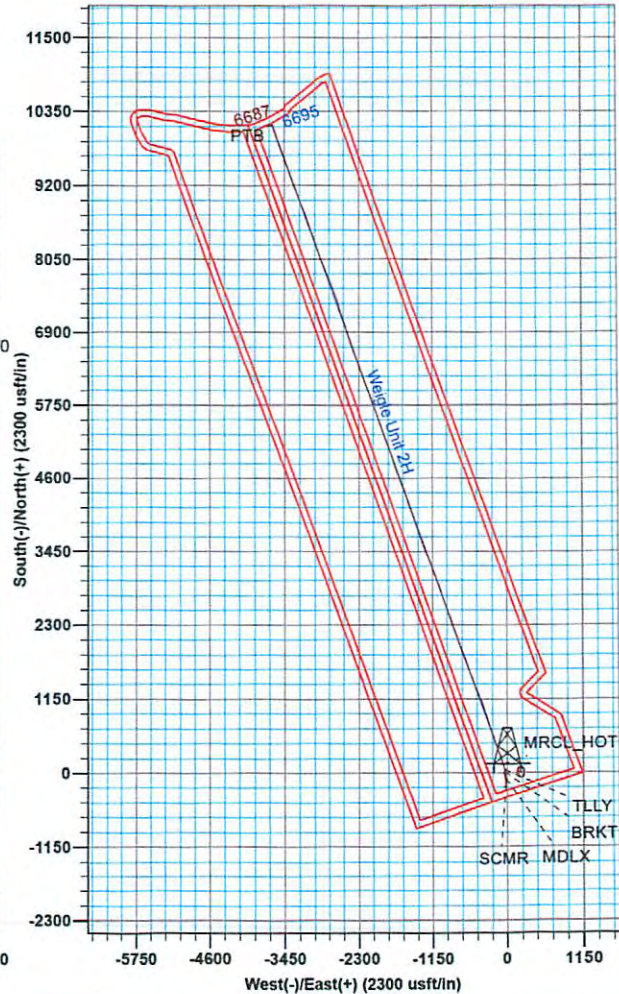
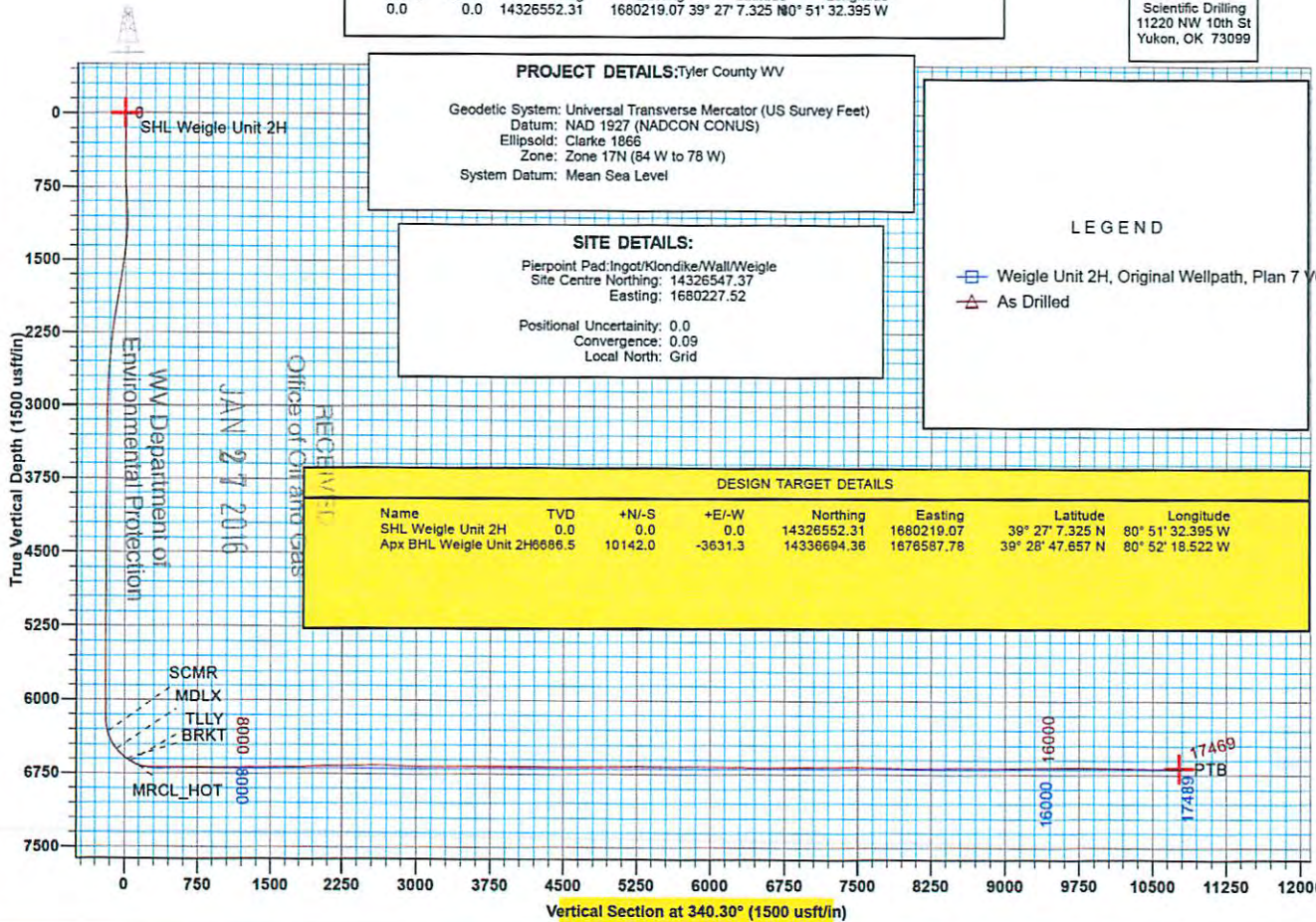
Genie Lightfoot
 15:23, June 01 2015
 Scientific Drilling
 11220 NW 10th St
 Yukon, OK 73099

PROJECT DETAILS: Tyler 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:	
Pierpoint Pad: Ingot/Klondike/Wall/Weigle	
Site Centre Northing: 14326547.37	
Easting: 1680227.52	
Positional Uncertainty: 0.0	
Convergence: 0.09	
Local North: Grid	

LEGEND	
	Weigle Unit 2H, Original Wellpath, Plan 7 Y0
	As Drilled

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Weigle Unit 2H	0.0	0.0	0.0	14326552.31	1680219.07	39° 27' 7.325 N	80° 51' 32.395 W
Apx BHL Weigle Unit 2H6686.5	10142.0	10142.0	-3631.3	14336694.36	1676587.78	39° 28' 47.657 N	80° 52' 18.522 W





Antero

Tyler County WV
Pierpoint Pad:Ingot/Klondike/Wall/Weigle
Weigle Unit 2H
Original Wellpath

Design: As Drilled

EOW Completion Report

01 June, 2015

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WV Department of
Environmental Protection



02/12/2016



Company:	Antero	Local Co-ordinate Reference:	Well Weigle Unit 2H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Project	Tyler County WV, Tyler Co West Virginia		
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	Pierpoint Pad:Ingot/Klondike/Wall/Weigle				
Site Position:		Northing:	14,326,547.37 usft	Latitude:	39° 27' 7.276 N
From:	Map	Easting:	1,680,227.52 usft	Longitude:	80° 51' 32.288 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.09 °

Well	Weigle Unit 2H, Marcellus					
Well Position	+N/-S	0.0 usft	Northing:	14,326,552.31 usft	Latitude:	39° 27' 7.325 N
	+E/-W	0.0 usft	Easting:	1,680,219.07 usft	Longitude:	80° 51' 32.395 W
Position Uncertainty		2.0 usft	Wellhead Elevation:	1,220.0 usft	Ground Level:	1,201.0 usft

Wellbore	Original Wellpath				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	5/4/2015	-8.46	66.93	52,235

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	340.30	

Survey Program	Date 6/1/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
106.5	5,896.4	Survey #6 Final Gyro KOP (Original Wellp	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
5,896.4	17,469.0	Survey #7 SDI 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
106.5	0.15	112.59	106.5	-0.1	0.1	-0.1	0.14
130.7	0.16	115.24	130.7	-0.1	0.2	-0.1	0.05
155.6	0.20	97.00	155.6	-0.1	0.3	-0.2	0.28
181.0	0.18	100.33	181.0	-0.1	0.3	-0.2	0.09
204.8	0.17	107.13	204.8	-0.1	0.4	-0.3	0.10
230.0	0.20	105.19	230.0	-0.2	0.5	-0.3	0.12
255.4	0.20	97.14	255.4	-0.2	0.6	-0.4	0.11
280.6	0.24	86.73	280.6	-0.2	0.7	-0.4	0.22
304.4	0.24	104.77	304.4	-0.2	0.8	-0.4	0.32
329.9	0.15	111.99	329.9	-0.2	0.9	-0.5	0.36

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Company:	Antero	Local Co-ordinate Reference:	Well Weigle Unit 2H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle 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)	
355.0	0.35	107.31	355.0	-0.2	1.0	-0.6	0.80	
380.5	0.17	80.64	380.5	-0.3	1.1	-0.6	0.83	
405.5	0.16	97.05	405.5	-0.3	1.1	-0.6	0.19	
430.6	0.07	295.67	430.6	-0.3	1.2	-0.6	0.91	
455.8	0.10	104.36	455.8	-0.3	1.2	-0.6	0.67	
480.5	0.12	234.74	480.5	-0.3	1.2	-0.7	0.81	
503.8	0.68	266.79	503.8	-0.3	1.0	-0.6	2.49	
530.3	1.08	283.52	530.3	-0.2	0.6	-0.4	1.78	
554.0	1.50	278.60	554.0	-0.1	0.1	-0.2	1.83	
578.8	2.12	278.90	578.8	0.0	-0.7	0.2	2.50	
605.1	2.78	277.53	605.1	0.1	-1.8	0.7	2.52	
629.4	3.20	277.76	629.4	0.3	-3.1	1.3	1.73	
655.9	4.00	279.01	655.8	0.5	-4.7	2.1	3.03	
679.6	4.75	279.81	679.4	0.8	-6.5	3.0	3.17	
703.6	5.19	282.16	703.3	1.2	-8.5	4.0	2.03	
729.9	5.39	283.25	729.5	1.8	-10.9	5.3	0.85	
753.8	5.47	283.51	753.3	2.3	-13.1	6.6	0.35	
780.3	5.52	283.20	779.6	2.9	-15.6	8.0	0.22	
803.9	5.60	283.62	803.2	3.4	-17.8	9.2	0.38	
829.9	5.60	284.00	829.0	4.0	-20.2	10.6	0.14	
855.9	5.77	283.48	854.9	4.6	-22.7	12.0	0.68	
879.1	5.74	283.86	878.0	5.2	-25.0	13.3	0.21	
905.0	5.87	283.40	903.8	5.8	-27.6	14.7	0.53	
931.0	5.86	282.95	929.6	6.4	-30.1	16.2	0.18	
954.2	5.97	280.38	952.7	6.9	-32.5	17.4	1.23	
980.1	5.99	278.98	978.4	7.3	-35.1	18.8	0.57	
1,003.6	6.00	277.26	1,001.8	7.7	-37.6	19.9	0.77	
1,028.6	5.39	269.36	1,026.7	7.8	-40.0	20.9	3.96	
1,055.0	4.83	263.85	1,053.0	7.7	-42.4	21.5	2.81	
1,078.2	4.43	258.25	1,076.1	7.4	-44.2	21.9	2.61	
1,104.2	3.96	248.85	1,102.0	6.9	-46.0	22.0	3.20	
1,130.4	3.69	238.62	1,128.2	6.1	-47.6	21.8	2.79	
1,153.9	3.33	224.62	1,151.6	5.2	-48.7	21.4	3.96	
1,179.7	3.37	209.44	1,177.4	4.1	-49.6	20.5	3.43	
1,205.4	3.67	193.59	1,203.0	2.6	-50.2	19.4	3.94	
1,228.8	4.08	181.69	1,226.4	1.0	-50.4	18.0	3.85	
1,254.6	4.73	174.62	1,252.1	-0.9	-50.3	16.1	3.28	
1,279.7	5.28	168.66	1,277.1	-3.1	-50.0	13.9	3.01	
1,305.7	6.17	163.95	1,303.0	-5.6	-49.4	11.4	3.87	
1,328.9	6.57	163.47	1,326.1	-8.1	-48.7	8.8	1.74	
1,354.7	7.01	162.02	1,351.7	-11.0	-47.8	5.7	1.83	
1,380.6	7.48	160.34	1,377.4	-14.1	-46.7	2.5	1.99	
1,403.7	7.67	160.41	1,400.3	-17.0	-45.7	-0.6	0.82	
1,429.6	7.80	160.32	1,425.9	-20.2	-44.5	-4.1	0.50	

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Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle 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)
1,455.4	7.87	160.61	1,451.5	-23.6	-43.3	-7.6	0.31
1,478.8	7.90	160.48	1,474.6	-26.6	-42.3	-10.8	0.15
1,504.5	8.06	160.58	1,500.1	-30.0	-41.1	-14.4	0.62
1,530.4	8.18	160.67	1,525.8	-33.4	-39.9	-18.0	0.47
1,553.7	8.20	160.71	1,548.8	-36.5	-38.8	-21.3	0.09
1,579.5	8.25	160.41	1,574.4	-40.0	-37.5	-25.0	0.25
1,605.8	7.82	163.88	1,600.4	-43.5	-36.4	-28.7	2.47
1,629.1	7.89	164.70	1,623.4	-46.6	-35.5	-31.9	0.57
1,654.2	8.02	166.29	1,648.4	-50.0	-34.7	-35.3	1.02
1,679.6	8.54	170.38	1,673.4	-53.5	-33.9	-39.0	3.10
1,705.0	8.69	171.25	1,698.6	-57.3	-33.3	-42.7	0.78
1,730.4	8.90	171.76	1,723.7	-61.1	-32.8	-46.5	0.88
1,755.7	8.91	171.17	1,748.7	-65.0	-32.2	-50.3	0.36
1,780.9	9.06	171.37	1,773.6	-68.9	-31.6	-54.2	0.61
1,803.9	9.17	171.49	1,796.3	-72.5	-31.0	-57.8	0.49
1,829.1	9.36	171.00	1,821.2	-76.5	-30.4	-61.8	0.82
1,854.4	9.48	170.83	1,846.1	-80.6	-29.8	-65.8	0.49
1,880.2	9.50	170.62	1,871.5	-84.8	-29.1	-70.0	0.16
1,905.6	9.63	170.74	1,896.6	-88.9	-28.4	-74.2	0.52
1,930.9	9.79	170.63	1,921.6	-93.2	-27.7	-78.4	0.63
1,953.6	9.81	170.75	1,943.9	-97.0	-27.1	-82.2	0.13
1,979.0	9.85	171.32	1,968.9	-101.3	-26.4	-86.4	0.41
2,004.8	9.46	172.69	1,994.4	-105.5	-25.8	-90.7	1.75
2,030.1	8.96	176.62	2,019.4	-109.6	-25.4	-94.6	3.17
2,055.3	8.95	177.62	2,044.3	-113.5	-25.2	-98.4	0.62
2,078.7	9.09	178.07	2,067.4	-117.2	-25.1	-101.8	0.67
2,104.0	9.34	177.61	2,092.4	-121.2	-24.9	-105.7	1.03
2,129.2	9.54	178.12	2,117.2	-125.3	-24.8	-109.6	0.86
2,154.7	9.54	177.68	2,142.3	-129.6	-24.6	-113.7	0.29
2,180.0	9.00	176.53	2,167.3	-133.6	-24.4	-117.6	2.25
2,205.4	8.41	176.22	2,192.4	-137.5	-24.2	-121.3	2.33
2,230.7	7.47	177.23	2,217.4	-140.9	-24.0	-124.6	3.76
2,256.0	6.65	178.60	2,242.5	-144.1	-23.9	-127.6	3.31
2,279.0	6.13	178.30	2,265.4	-146.6	-23.8	-130.0	2.27
2,304.3	5.68	177.59	2,290.6	-149.2	-23.7	-132.5	1.80
2,329.7	5.44	176.50	2,315.8	-151.7	-23.6	-134.9	1.03
2,353.6	5.50	175.98	2,339.6	-153.9	-23.4	-137.0	0.33
2,380.2	5.69	174.25	2,366.1	-156.5	-23.2	-139.5	0.95
2,403.9	5.64	172.12	2,389.8	-158.9	-22.9	-141.8	0.91
2,430.3	5.69	171.97	2,416.0	-161.4	-22.6	-144.4	0.20
2,479.5	5.73	169.62	2,464.9	-166.3	-21.8	-149.2	0.48
2,505.1	5.70	168.85	2,490.4	-168.8	-21.3	-151.7	0.32
2,528.8	5.74	168.92	2,514.0	-171.1	-20.8	-154.1	0.17
2,554.4	5.72	167.53	2,539.4	-173.6	-20.3	-156.6	0.55
2,579.9	5.33	168.90	2,564.9	-176.0	-19.8	-159.0	1.61

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Company: Antero	Local Co-ordinate Reference: Well Weigle Unit 2H
Project: Tyler County WV	TVD Reference: Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site: Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference: Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well: Weigle 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)
2,605.4	4.97	168.92	2,590.2	-178.2	-19.4	-161.3	1.41
2,628.8	4.63	170.37	2,613.6	-180.2	-19.0	-163.2	1.54
2,654.8	4.17	169.76	2,639.5	-182.1	-18.7	-165.2	1.78
2,680.3	3.83	169.74	2,664.9	-183.9	-18.4	-166.9	1.33
2,705.8	3.52	171.22	2,690.4	-185.5	-18.1	-168.5	1.27
2,729.1	3.17	170.39	2,713.6	-186.8	-17.9	-169.9	1.52
2,754.4	2.87	171.93	2,739.0	-188.2	-17.7	-171.2	1.23
2,780.5	2.69	172.03	2,765.0	-189.4	-17.5	-172.4	0.69
2,805.9	2.41	172.69	2,790.4	-190.5	-17.3	-173.5	1.10
2,829.3	2.23	174.11	2,813.7	-191.5	-17.2	-174.4	0.81
2,854.7	2.05	173.86	2,839.2	-192.4	-17.1	-175.4	0.71
2,880.2	1.93	174.70	2,864.6	-193.3	-17.0	-176.2	0.48
2,903.8	1.82	176.40	2,888.2	-194.1	-17.0	-177.0	0.52
2,929.3	1.68	178.95	2,913.7	-194.8	-17.0	-177.7	0.63
2,954.9	1.54	178.54	2,939.2	-195.6	-16.9	-178.4	0.55
2,980.2	1.52	178.93	2,964.6	-196.2	-16.9	-179.0	0.09
3,005.8	1.41	180.79	2,990.2	-196.9	-16.9	-179.7	0.47
3,029.4	1.19	184.31	3,013.8	-197.4	-16.9	-180.2	0.99
3,055.0	1.24	183.93	3,039.3	-198.0	-17.0	-180.7	0.20
3,080.5	1.12	185.92	3,064.8	-198.5	-17.0	-181.1	0.50
3,105.9	1.07	189.71	3,090.3	-199.0	-17.1	-181.6	0.35
3,129.1	0.93	192.01	3,113.4	-199.4	-17.2	-181.9	0.63
3,155.1	0.97	188.61	3,139.4	-199.8	-17.2	-182.3	0.27
3,180.7	0.89	194.29	3,165.0	-200.2	-17.3	-182.6	0.48
3,203.9	0.84	199.79	3,188.2	-200.5	-17.4	-182.9	0.42
3,229.1	0.66	205.21	3,213.4	-200.8	-17.6	-183.2	0.77
3,254.2	0.70	205.63	3,238.5	-201.1	-17.7	-183.4	0.16
3,279.6	0.73	200.17	3,263.9	-201.4	-17.8	-183.6	0.29
3,304.7	0.80	204.20	3,289.0	-201.7	-17.9	-183.9	0.35
3,329.7	0.76	200.32	3,314.0	-202.0	-18.1	-184.1	0.26
3,354.7	0.72	208.04	3,339.0	-202.3	-18.2	-184.3	0.43
3,379.7	0.62	207.62	3,364.0	-202.6	-18.3	-184.5	0.40
3,405.1	0.71	208.99	3,389.4	-202.8	-18.5	-184.7	0.36
3,430.1	0.69	208.83	3,414.4	-203.1	-18.6	-184.9	0.08
3,455.4	0.61	213.23	3,439.7	-203.3	-18.8	-185.1	0.37
3,480.1	0.65	211.96	3,464.4	-203.6	-18.9	-185.3	0.17
3,505.0	0.59	211.93	3,489.3	-203.8	-19.1	-185.5	0.24
3,530.6	0.54	240.43	3,514.9	-204.0	-19.2	-185.6	1.10
3,555.9	0.50	223.89	3,540.2	-204.1	-19.4	-185.6	0.61
3,580.5	0.48	224.43	3,564.8	-204.3	-19.6	-185.7	0.08
3,605.9	0.48	221.82	3,590.2	-204.4	-19.7	-185.8	0.09
3,628.8	0.38	232.46	3,613.1	-204.5	-19.8	-185.9	0.56
3,654.1	0.46	225.49	3,638.4	-204.7	-20.0	-186.0	0.38
3,679.4	0.48	231.85	3,663.7	-204.8	-20.1	-186.0	0.22

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Company:	Antero	Local Co-ordinate Reference:	Well Weigle Unit 2H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle 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)	
3,704.8	0.55	230.46	3,689.1	-204.9	-20.3	-186.1	0.28	
3,730.6	0.47	237.62	3,714.9	-205.1	-20.5	-186.2	0.40	
3,753.0	0.58	242.20	3,737.2	-205.2	-20.7	-186.2	0.53	
3,778.7	0.49	239.58	3,763.0	-205.3	-20.9	-186.2	0.36	
3,804.1	0.52	241.35	3,788.4	-205.4	-21.1	-186.3	0.13	
3,829.5	0.55	243.12	3,813.8	-205.5	-21.3	-186.3	0.13	
3,854.9	0.55	244.66	3,839.2	-205.6	-21.5	-186.3	0.06	
3,880.2	0.49	234.47	3,864.5	-205.7	-21.7	-186.4	0.43	
3,905.7	0.60	240.49	3,890.0	-205.9	-21.9	-186.4	0.49	
3,928.5	0.52	241.27	3,912.8	-206.0	-22.1	-186.5	0.35	
3,954.0	0.57	245.60	3,938.3	-206.1	-22.3	-186.5	0.25	
3,979.4	0.62	239.89	3,963.7	-206.2	-22.5	-186.5	0.31	
4,004.9	0.57	244.07	3,989.2	-206.3	-22.8	-186.6	0.26	
4,029.9	0.56	244.80	4,014.2	-206.4	-23.0	-186.6	0.05	
4,054.7	0.54	238.43	4,039.0	-206.5	-23.2	-186.6	0.26	
4,079.5	0.51	241.95	4,063.8	-206.7	-23.4	-186.7	0.18	
4,104.4	0.54	239.99	4,088.7	-206.8	-23.6	-186.7	0.14	
4,129.3	0.60	251.48	4,113.6	-206.9	-23.8	-186.7	0.52	
4,154.2	0.58	242.79	4,138.5	-207.0	-24.1	-186.7	0.37	
4,178.9	0.48	248.26	4,163.2	-207.1	-24.3	-186.8	0.45	
4,203.9	0.55	253.68	4,188.1	-207.1	-24.5	-186.8	0.34	
4,229.0	0.60	244.67	4,213.2	-207.2	-24.7	-186.8	0.41	
4,254.0	0.60	248.03	4,238.3	-207.3	-25.0	-186.8	0.14	
4,278.7	0.59	248.66	4,263.0	-207.4	-25.2	-186.8	0.05	
4,303.6	0.64	246.03	4,287.8	-207.5	-25.4	-186.8	0.23	
4,330.9	0.63	235.68	4,315.1	-207.7	-25.7	-186.9	0.42	
4,355.7	0.67	235.83	4,340.0	-207.8	-25.9	-186.9	0.16	
4,380.5	0.64	236.84	4,364.8	-208.0	-26.2	-187.0	0.13	
4,405.2	0.75	235.36	4,389.5	-208.2	-26.4	-187.1	0.45	
4,430.1	0.69	232.03	4,414.3	-208.3	-26.7	-187.2	0.29	
4,455.3	0.66	231.79	4,439.6	-208.5	-26.9	-187.3	0.12	
4,480.2	0.79	226.68	4,464.4	-208.7	-27.1	-187.4	0.58	
4,505.0	0.78	223.10	4,489.2	-209.0	-27.4	-187.5	0.20	
4,529.9	0.72	227.96	4,514.1	-209.2	-27.6	-187.7	0.35	
4,554.6	0.86	221.65	4,538.9	-209.4	-27.9	-187.8	0.66	
4,579.3	0.85	224.44	4,563.5	-209.7	-28.1	-188.0	0.17	
4,604.2	0.90	227.27	4,588.5	-210.0	-28.4	-188.1	0.26	
4,629.0	0.89	219.21	4,613.2	-210.3	-28.6	-188.3	0.51	
4,653.8	0.86	220.38	4,638.0	-210.6	-28.9	-188.5	0.14	
4,679.0	0.78	220.57	4,663.2	-210.8	-29.1	-188.7	0.32	
4,703.9	0.71	222.64	4,688.2	-211.1	-29.3	-188.8	0.30	
4,728.8	0.70	221.57	4,713.1	-211.3	-29.5	-189.0	0.07	
4,753.5	0.72	223.33	4,737.7	-211.5	-29.8	-189.1	0.12	
4,780.3	0.74	225.47	4,764.5	-211.8	-30.0	-189.3	0.13	

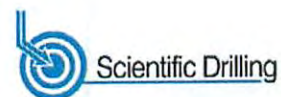
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Company: Antero	Local Co-ordinate Reference: Well Weigle Unit 2H
Project: Tyler County WV	TVD Reference: Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site: Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference: Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well: Weigle 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)
4,804.4	0.75	227.49	4,788.6	-212.0	-30.2	-189.4	0.12
4,829.0	0.71	221.88	4,813.2	-212.2	-30.4	-189.5	0.33
4,853.7	0.70	222.06	4,838.0	-212.4	-30.6	-189.7	0.04
4,880.4	0.67	224.13	4,864.6	-212.7	-30.9	-189.8	0.15
4,904.8	0.66	223.19	4,889.0	-212.9	-31.1	-189.9	0.06
4,929.1	0.69	227.28	4,913.3	-213.1	-31.3	-190.1	0.23
4,955.9	0.68	225.50	4,940.1	-213.3	-31.5	-190.2	0.09
4,980.1	0.59	239.80	4,964.3	-213.5	-31.7	-190.3	0.75
5,004.5	0.57	229.06	4,988.7	-213.6	-31.9	-190.3	0.45
5,029.1	0.64	227.88	5,013.3	-213.8	-32.1	-190.4	0.29
5,056.0	0.55	236.45	5,040.2	-213.9	-32.3	-190.5	0.47
5,080.3	0.60	234.55	5,064.5	-214.1	-32.5	-190.6	0.22
5,104.6	0.76	227.33	5,088.8	-214.3	-32.7	-190.7	0.75
5,128.9	0.43	238.78	5,113.1	-214.4	-32.9	-190.8	1.44
5,155.6	0.91	228.00	5,139.8	-214.6	-33.2	-190.9	1.85
5,180.6	0.72	226.85	5,164.8	-214.9	-33.4	-191.0	0.76
5,204.4	0.62	239.29	5,188.6	-215.0	-33.7	-191.1	0.74
5,230.7	0.79	227.93	5,214.9	-215.2	-33.9	-191.2	0.83
5,255.0	0.53	251.68	5,239.1	-215.4	-34.1	-191.2	1.53
5,278.2	0.51	248.00	5,262.4	-215.4	-34.3	-191.3	0.17
5,304.8	0.47	248.60	5,289.0	-215.5	-34.6	-191.3	0.15
5,328.8	0.60	237.04	5,313.0	-215.6	-34.8	-191.3	0.70
5,355.0	0.56	245.52	5,339.2	-215.8	-35.0	-191.3	0.36
5,378.8	0.57	245.37	5,363.0	-215.9	-35.2	-191.4	0.04
5,405.2	0.50	245.72	5,389.4	-216.0	-35.4	-191.4	0.27
5,428.9	0.56	243.81	5,413.1	-216.0	-35.6	-191.4	0.26
5,455.3	0.58	248.76	5,439.5	-216.2	-35.9	-191.4	0.20
5,479.1	0.57	253.17	5,463.3	-216.2	-36.1	-191.4	0.19
5,505.3	0.50	245.24	5,489.5	-216.3	-36.3	-191.4	0.39
5,528.7	0.57	248.51	5,512.9	-216.4	-36.5	-191.4	0.33
5,554.4	0.68	247.49	5,538.6	-216.5	-36.8	-191.4	0.43
5,580.2	0.69	245.45	5,564.4	-216.6	-37.1	-191.5	0.10
5,603.6	0.52	261.60	5,587.8	-216.7	-37.3	-191.4	1.02
5,629.3	0.62	254.25	5,613.5	-216.8	-37.5	-191.4	0.48
5,655.0	0.68	249.33	5,639.2	-216.8	-37.8	-191.4	0.32
5,678.8	0.56	257.60	5,663.0	-216.9	-38.1	-191.4	0.63
5,704.6	0.62	260.18	5,688.8	-217.0	-38.3	-191.4	0.25
5,730.3	0.56	264.31	5,714.4	-217.0	-38.6	-191.3	0.29
5,753.5	0.67	250.55	5,737.7	-217.1	-38.8	-191.3	0.79
5,779.4	0.66	261.24	5,763.5	-217.1	-39.1	-191.2	0.48
5,805.1	0.56	272.04	5,789.3	-217.2	-39.4	-191.2	0.59
5,830.7	0.57	257.60	5,814.9	-217.2	-39.6	-191.1	0.56
5,854.2	0.69	260.64	5,838.4	-217.2	-39.9	-191.1	0.53
5,880.3	0.64	254.93	5,864.5	-217.3	-40.2	-191.0	0.32

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Company:	Antero	Local Co-ordinate Reference:	Well Weigle Unit 2H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle 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)
5,896.4	0.52	253.19	5,880.6	-217.3	-40.3	-191.0	0.75
5,920.0	0.58	244.26	5,904.2	-217.4	-40.6	-191.0	0.44
5,965.0	0.60	261.14	5,949.2	-217.6	-41.0	-191.0	0.39
6,010.0	0.70	255.47	5,994.1	-217.7	-41.5	-190.9	0.26
6,055.0	0.89	252.68	6,039.1	-217.8	-42.1	-190.9	0.43
6,100.0	0.93	255.07	6,084.1	-218.0	-42.8	-190.9	0.12
6,144.0	2.49	44.89	6,128.1	-217.4	-42.4	-190.4	7.56
6,190.0	8.29	54.76	6,173.9	-214.8	-39.0	-189.1	12.72
6,234.0	12.65	53.76	6,217.2	-210.1	-32.5	-186.9	9.92
6,279.0	12.65	43.72	6,261.1	-203.7	-25.2	-183.3	4.88
6,324.0	15.21	22.12	6,304.8	-194.6	-19.5	-176.7	12.78
6,349.0	17.71	15.36	6,328.8	-187.9	-17.3	-171.1	12.59
SCMR							
6,369.0	19.84	11.18	6,347.7	-181.7	-15.8	-165.7	12.59
6,414.0	25.32	4.80	6,389.2	-164.6	-13.5	-150.4	13.32
6,459.0	30.36	0.58	6,429.0	-143.6	-12.6	-130.9	12.02
6,504.0	34.79	357.39	6,466.9	-119.4	-13.1	-108.0	10.56
6,548.0	39.93	354.83	6,501.9	-92.8	-14.9	-82.3	12.20
6,550.0	40.12	354.81	6,503.4	-91.5	-15.1	-81.0	9.40
MDLX							
6,593.0	44.15	354.38	6,535.3	-62.8	-17.8	-53.1	9.40
6,638.0	48.48	352.50	6,566.4	-30.4	-21.5	-21.4	10.08
6,683.0	52.93	348.54	6,594.9	3.9	-27.3	12.8	12.00
6,696.0	54.49	347.61	6,602.6	14.1	-29.4	23.2	13.33
BRKT							
6,728.0	58.37	345.47	6,620.3	40.0	-35.7	49.7	13.33
6,742.0	60.13	344.90	6,627.4	51.7	-38.7	61.7	13.08
TLLY							
6,773.0	64.05	343.70	6,641.9	78.0	-46.2	89.0	13.08
6,818.0	68.15	341.97	6,660.2	117.3	-58.3	130.1	9.77
6,836.0	70.00	342.07	6,666.6	133.3	-63.5	146.9	10.28
MRCL_HOT							
6,862.0	72.67	342.20	6,674.9	156.8	-71.0	171.5	10.28
6,907.0	79.50	341.39	6,685.7	198.2	-84.7	215.2	15.28
6,952.0	87.18	340.23	6,690.9	240.4	-99.4	259.8	17.26
7,001.0	91.04	339.22	6,691.7	286.4	-116.3	308.8	8.14
7,090.0	90.80	341.42	6,690.3	370.2	-146.3	397.8	2.49
7,180.0	89.03	340.38	6,690.4	455.2	-175.8	487.8	2.28
7,270.0	88.79	340.67	6,692.1	540.0	-205.8	577.8	0.42
7,359.0	90.37	342.00	6,692.8	624.3	-234.2	666.8	2.32
7,449.0	90.94	342.63	6,691.7	710.1	-261.6	756.7	0.94
7,538.0	90.10	342.63	6,690.9	795.0	-288.2	845.6	0.94
7,628.0	90.84	342.57	6,690.2	880.9	-315.1	935.5	0.82
7,718.0	90.60	340.88	6,689.1	966.3	-343.3	1,025.5	1.90
7,808.0	90.40	342.16	6,688.3	1,051.7	-371.8	1,115.5	1.44



Company:	Antero	Local Co-ordinate Reference:	Well Weigle Unit 2H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle 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)
7,897.0	90.40	339.35	6,687.7	1,135.7	-401.1	1,204.5	3.16
7,987.0	90.17	339.18	6,687.2	1,219.9	-433.0	1,294.5	0.32
8,077.0	90.50	338.03	6,686.7	1,303.7	-465.8	1,384.4	1.33
8,167.0	90.07	338.18	6,686.2	1,387.2	-499.4	1,474.3	0.51
8,256.0	91.14	337.84	6,685.3	1,469.7	-532.7	1,563.3	1.26
8,346.0	90.50	338.37	6,684.0	1,553.2	-566.3	1,653.2	0.92
8,436.0	91.84	339.11	6,682.2	1,637.1	-598.9	1,743.1	1.70
8,526.0	91.98	339.54	6,679.2	1,721.2	-630.7	1,833.1	0.50
8,616.0	91.85	338.43	6,676.2	1,805.2	-662.9	1,923.0	1.24
8,706.0	91.34	340.52	6,673.7	1,889.4	-694.5	2,012.9	2.39
8,795.0	91.65	340.40	6,671.3	1,973.3	-724.2	2,101.9	0.37
8,885.0	91.55	340.13	6,668.8	2,058.0	-754.6	2,191.9	0.32
8,974.0	90.54	341.74	6,667.2	2,142.1	-783.7	2,280.9	2.14
9,064.0	90.37	340.81	6,666.5	2,227.3	-812.6	2,370.8	1.05
9,154.0	90.47	341.35	6,665.8	2,312.4	-841.7	2,460.8	0.61
9,244.0	90.70	340.51	6,664.9	2,397.5	-871.1	2,550.8	0.97
9,333.0	88.69	341.64	6,665.4	2,481.7	-900.0	2,639.8	2.59
9,423.0	88.42	342.44	6,667.6	2,567.3	-927.7	2,729.7	0.94
9,513.0	88.89	340.86	6,669.8	2,652.7	-956.1	2,819.7	1.83
9,602.0	88.66	341.68	6,671.7	2,736.9	-984.6	2,908.6	0.96
9,692.0	88.42	342.26	6,674.0	2,822.5	-1,012.5	2,998.6	0.70
9,782.0	89.40	339.72	6,675.7	2,907.5	-1,041.8	3,088.5	3.02
9,871.0	90.50	338.46	6,675.7	2,990.7	-1,073.6	3,177.5	1.88
9,961.0	90.23	337.74	6,675.2	3,074.2	-1,107.1	3,267.5	0.85
10,051.0	89.80	339.15	6,675.1	3,157.9	-1,140.2	3,357.4	1.64
10,140.0	89.63	338.61	6,675.6	3,240.9	-1,172.3	3,446.4	0.64
10,230.0	89.87	339.00	6,676.0	3,324.8	-1,204.8	3,536.3	0.51
10,319.0	89.53	337.64	6,676.4	3,407.5	-1,237.7	3,625.3	1.58
10,409.0	90.10	340.68	6,676.7	3,491.6	-1,269.7	3,715.3	3.44
10,499.0	89.87	339.19	6,676.8	3,576.1	-1,300.6	3,805.3	1.68
10,588.0	89.93	340.58	6,676.9	3,659.7	-1,331.2	3,894.2	1.56
10,678.0	90.03	341.16	6,676.9	3,744.7	-1,360.7	3,984.2	0.65
10,768.0	90.10	341.13	6,676.8	3,829.9	-1,389.8	4,074.2	0.08
10,857.0	90.17	340.38	6,676.6	3,913.9	-1,419.1	4,163.2	0.85
10,947.0	89.73	338.71	6,676.7	3,998.3	-1,450.5	4,253.2	1.92
11,036.0	90.13	340.92	6,676.8	4,081.8	-1,481.2	4,342.2	2.52
11,126.0	89.90	341.42	6,676.8	4,167.0	-1,510.3	4,432.2	0.61
11,216.0	90.24	342.57	6,676.7	4,252.6	-1,538.1	4,522.2	1.33
11,305.0	90.17	340.71	6,676.4	4,337.0	-1,566.1	4,611.1	2.09
11,395.0	89.87	340.01	6,676.3	4,421.8	-1,596.4	4,701.1	0.85
11,485.0	89.66	337.96	6,676.7	4,505.8	-1,628.7	4,791.1	2.29
11,575.0	91.11	339.39	6,676.1	4,589.6	-1,661.4	4,881.1	2.26
11,664.0	90.80	339.67	6,674.6	4,673.0	-1,692.5	4,970.0	0.47
11,754.0	90.77	342.28	6,673.4	4,758.1	-1,721.8	5,060.0	2.90

Office of Oil and Gas

Company:	Antero	Local Co-ordinate Reference:	Well Weigle Unit 2H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle 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)	
11,844.0	91.51	342.02	6,671.6	4,843.7	-1,749.4	5,149.9	0.87	
11,933.0	89.63	341.58	6,670.7	4,928.3	-1,777.2	5,238.9	2.17	
12,023.0	89.43	341.73	6,671.4	5,013.7	-1,805.5	5,328.9	0.28	
12,113.0	89.53	339.54	6,672.3	5,098.6	-1,835.4	5,418.9	2.44	
12,203.0	89.30	340.05	6,673.2	5,183.0	-1,866.5	5,508.9	0.62	
12,293.0	89.66	339.85	6,674.0	5,267.6	-1,897.3	5,598.9	0.46	
12,382.0	90.60	340.68	6,673.8	5,351.4	-1,927.4	5,687.9	1.41	
12,472.0	90.97	340.62	6,672.6	5,436.3	-1,957.2	5,777.8	0.42	
12,562.0	89.46	342.67	6,672.2	5,521.7	-1,985.5	5,867.8	2.83	
12,652.0	88.69	340.19	6,673.7	5,607.0	-2,014.2	5,957.8	2.88	
12,742.0	88.89	339.64	6,675.6	5,691.5	-2,045.1	6,047.8	0.65	
12,831.0	88.69	339.44	6,677.5	5,774.8	-2,076.2	6,136.7	0.32	
12,921.0	89.77	340.06	6,678.7	5,859.3	-2,107.3	6,226.7	1.38	
13,010.0	89.90	339.66	6,678.9	5,942.8	-2,138.0	6,315.7	0.47	
13,100.0	89.13	339.65	6,679.7	6,027.2	-2,169.3	6,405.7	0.86	
13,190.0	89.03	338.96	6,681.1	6,111.4	-2,201.1	6,495.7	0.77	
13,279.0	90.64	341.52	6,681.4	6,195.1	-2,231.2	6,584.7	3.40	
13,369.0	90.54	340.22	6,680.5	6,280.2	-2,260.7	6,674.6	1.45	
13,458.0	90.22	339.58	6,679.9	6,363.7	-2,291.2	6,763.6	0.80	
13,548.0	90.10	339.23	6,679.6	6,448.0	-2,322.9	6,853.6	0.41	
13,637.0	89.87	338.42	6,679.6	6,531.0	-2,355.0	6,942.6	0.95	
13,727.0	90.60	340.57	6,679.3	6,615.3	-2,386.6	7,032.6	2.52	
13,816.0	90.47	339.55	6,678.4	6,698.9	-2,416.9	7,121.6	1.16	
13,906.0	90.34	342.18	6,677.8	6,784.0	-2,446.4	7,211.6	2.93	
13,995.0	90.23	343.39	6,677.4	6,869.0	-2,472.8	7,300.5	1.37	
14,085.0	90.34	344.10	6,676.9	6,955.4	-2,497.9	7,390.3	0.80	
14,175.0	88.76	341.95	6,677.6	7,041.4	-2,524.2	7,480.2	2.96	
14,264.0	89.33	341.54	6,679.1	7,125.9	-2,552.1	7,569.2	0.79	
14,354.0	89.70	344.11	6,679.9	7,211.9	-2,578.7	7,659.1	2.88	
14,444.0	88.72	343.24	6,681.1	7,298.3	-2,604.0	7,748.9	1.46	
14,534.0	88.86	340.62	6,683.0	7,383.8	-2,631.9	7,838.8	2.91	
14,623.0	88.73	341.03	6,684.9	7,467.9	-2,661.1	7,927.8	0.48	
14,713.0	89.56	339.50	6,686.2	7,552.6	-2,691.5	8,017.8	1.93	
14,803.0	89.13	338.99	6,687.3	7,636.7	-2,723.4	8,107.8	0.74	
14,893.0	90.74	337.74	6,687.4	7,720.4	-2,756.6	8,197.7	2.26	
14,982.0	90.50	336.28	6,686.4	7,802.3	-2,791.3	8,286.6	1.66	
15,072.0	90.81	337.77	6,685.4	7,885.1	-2,826.4	8,376.4	1.69	
15,162.0	90.94	340.49	6,684.0	7,969.2	-2,858.5	8,466.4	3.03	
15,252.0	88.79	339.61	6,684.2	8,053.8	-2,889.2	8,556.4	2.58	
15,341.0	90.44	340.37	6,684.8	8,137.4	-2,919.7	8,645.4	2.04	
15,431.0	90.70	341.20	6,683.9	8,222.4	-2,949.3	8,735.3	0.97	
15,521.0	89.30	340.98	6,683.9	8,307.6	-2,978.4	8,825.3	1.57	
15,610.0	90.71	339.97	6,683.9	8,391.4	-3,008.2	8,914.3	1.95	
15,700.0	90.77	340.84	6,682.7	8,476.2	-3,038.4	9,004.3	0.97	

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Company:	Antero	Local Co-ordinate Reference:	Well Weigle Unit 2H
Project:	Tyler County WV	TVD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Site:	Pierpoint Pad:Ingot/Klondike/Wall/Weigle	MD Reference:	Precision 525: GL 1201' + KB 19' @ 1220.0usft
Well:	Weigle 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)
15,790.0	89.90	340.50	6,682.2	8,561.1	-3,068.2	9,094.3	1.04
15,879.0	89.90	342.50	6,682.4	8,645.5	-3,096.4	9,183.3	2.25
15,969.0	90.00	339.92	6,682.4	8,730.7	-3,125.4	9,273.3	2.87
16,058.0	89.93	337.78	6,682.5	8,813.7	-3,157.5	9,362.2	2.41
16,148.0	90.07	336.05	6,682.5	8,896.5	-3,192.8	9,452.1	1.93
16,237.0	90.40	339.04	6,682.1	8,978.8	-3,226.8	9,541.0	3.38
16,327.0	90.77	340.40	6,681.2	9,063.2	-3,258.0	9,631.0	1.57
16,416.0	90.27	340.04	6,680.4	9,146.9	-3,288.1	9,720.0	0.69
16,506.0	90.64	339.52	6,679.7	9,231.4	-3,319.2	9,809.9	0.71
16,596.0	89.83	339.90	6,679.3	9,315.8	-3,350.4	9,899.9	0.99
16,686.0	88.79	340.79	6,680.4	9,400.5	-3,380.7	9,989.9	1.52
16,775.0	88.62	340.57	6,682.4	9,484.5	-3,410.1	10,078.9	0.31
16,865.0	89.23	340.42	6,684.1	9,569.3	-3,440.1	10,168.9	0.70
16,955.0	89.36	338.26	6,685.2	9,653.5	-3,471.9	10,258.9	2.40
17,013.0	89.50	340.00	6,685.8	9,707.7	-3,492.5	10,316.8	3.01
17,044.0	90.13	340.92	6,685.9	9,736.9	-3,502.9	10,347.8	3.60
17,134.0	90.04	342.13	6,685.8	9,822.3	-3,531.4	10,437.8	1.35
17,224.0	90.00	343.36	6,685.7	9,908.2	-3,558.1	10,527.7	1.37
17,313.0	89.46	342.12	6,686.1	9,993.2	-3,584.5	10,616.7	1.52
17,403.0	90.07	342.54	6,686.5	10,079.0	-3,611.9	10,706.6	0.82
17,411.0	89.97	342.90	6,686.5	10,086.6	-3,614.2	10,714.6	4.67
17,469.0	89.97	342.90	6,686.5	10,142.1	-3,631.3	10,772.5	0.00

PTB

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,349.0	6,328.8	-187.9	-17.3	SCMR
6,550.0	6,503.4	-91.5	-15.1	MDLX
6,696.0	6,602.6	14.1	-29.4	BRKT
6,742.0	6,627.4	51.7	-38.7	TLLY
6,836.0	6,666.6	133.3	-63.5	MRCL_HOT
17,469.0	6,686.5	10,142.1	-3,631.3	PTB

Checked By: _____ Approved By: _____ Date: _____

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