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JUN 15 2015

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV



Antero Resources  
Statter Unit 1H  
Doddridge County WV  
Northing: 14302914.21  
Easting: 1759513.02  
As Drilled



Scientific Drilling  
421 South Eagle Lane  
Oklahoma City, OK

Genie Lightfoot  
13:51, December 09 2013

WELL DETAILS: Statter Unit 1H  
Ground Level: 880.0  
Northing: 14302914.21  
Easting: 1759513.02  
39° 23' 11.103" N 80° 34' 42.376" W  
Slot:

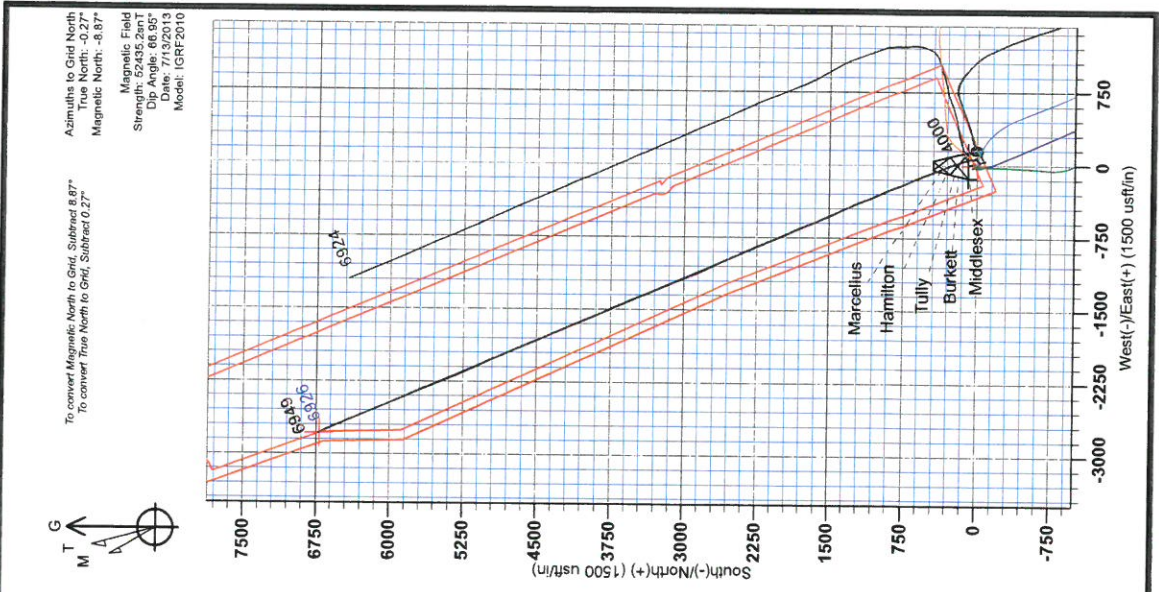
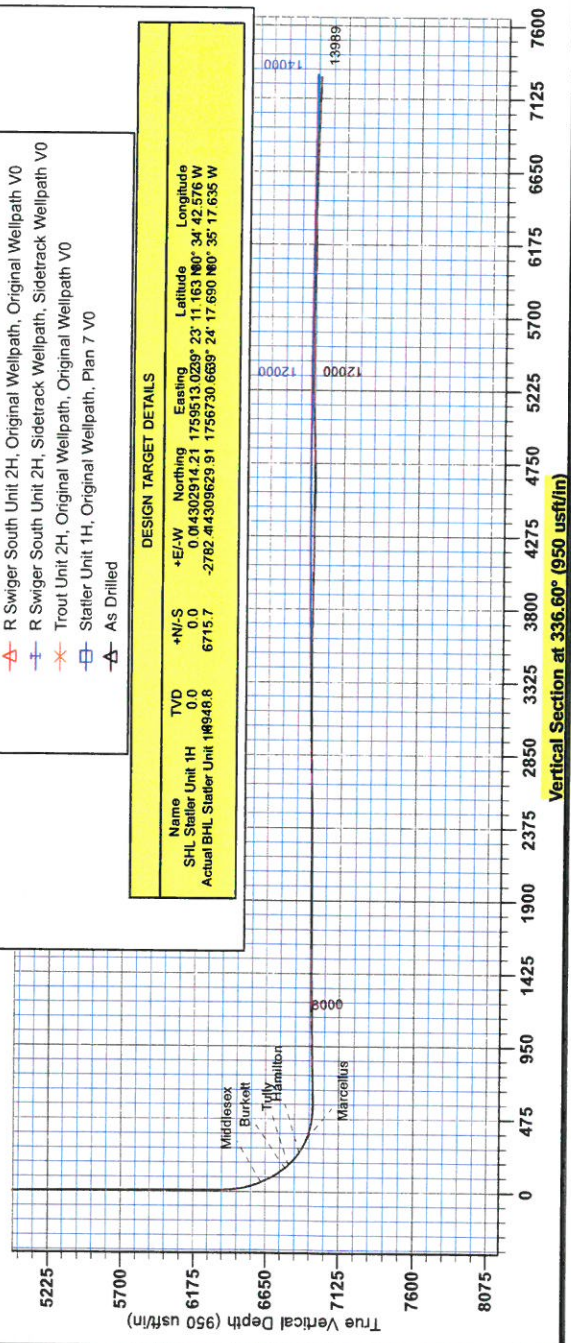
PROJECT DETAILS: Doddridge County WV  
Geodetic System: Universal Transverse Mercator (US Survey Feet)  
Ellipsoid: Clarke 1866  
Zone: Zone 17N (84 W to 78 W)  
System Datum: Mean Sea Level

REFERENCE INFORMATION  
Coordinates (N/E) Reference: Well Statter Unit 1H, Grid North  
Section (OS) Reference: S4K (O.S.N. O.G.E.) - 28 KSE @ 805 Duett  
Measured Depth Reference: Statter 1H BHL GL + 28 KSE @ 805 Duett  
Geological Reference: Doddridge County

- LEGEND
- R Swiger South Unit 3H, Original Wellpath, Original Wellpath V0
  - Welch Unit 1H, Original Wellpath, As Drilled V0
  - ◇ R Swiger South Unit 1H, Original Wellpath, Original Wellpath V0
  - ◊ Trout Unit 1H, Original Wellpath, Original Wellpath V0
  - △ R Swiger South Unit 2H, Original Wellpath, Original Wellpath V0
  - ▽ R Swiger South Unit 2H, Sidetrack Wellpath, Sidetrack Wellpath V0
  - ✱ Trout Unit 2H, Original Wellpath, Original Wellpath V0
  - ⊕ Statter Unit 1H, Original Wellpath, Plan 7 V0
  - ⊖ As Drilled

DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
SHL Statter Unit 1H	0.0	0.0	0.0	14302914.21	1759513.0239	23° 11' 16.3" N	80° 34' 42.376" W
Actual BHL Statter Unit 1H	108948.8	6715.7	-2782.4	44309629.91	17567230.6639	24° 17' 6.0" N	85° 17' 6.3" W





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## **Antero Resources**

**Doddridge County WV  
Swiger/Trout/Statler/Welch Pad  
Statler Unit 1H  
Original Wellpath**

**Design: As Drilled**

## **EOW Completion Report**

**09 December, 2013**





<b>Company:</b> Antero Resources	<b>Local Co-ordinate Reference:</b> Well Statler Unit 1H
<b>Project:</b> Doddridge County WV	<b>TVD Reference:</b> Statler 1H 880 GL + 28 KB @ 908.0usft
<b>Site:</b> Swiger/Trout/Statler/Welch Pad	<b>MD Reference:</b> Statler 1H 880 GL + 28 KB @ 908.0usft
<b>Well:</b> Statler Unit 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> Original Wellpath	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> As Drilled	<b>Database:</b> Oklahoma District

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

<b>Site</b> Swiger/Trout/Statler/Welch Pad		
<b>Site Position:</b>	<b>Northing:</b> 14,302,900.75 usft	<b>Latitude:</b> 39° 23' 11.029 N
<b>From:</b> Map	<b>Easting:</b> 1,759,545.24 usft	<b>Longitude:</b> 80° 34' 42.166 W
<b>Position Uncertainty:</b> 0.0 usft	<b>Slot Radius:</b> 13-3/16"	<b>Grid Convergence:</b> 0.27 °

<b>Well</b> Statler Unit 1H, Marcellus			
<b>Well Position</b>	<b>+N/-S</b> 0.0 usft	<b>Northing:</b> 14,302,914.21 usft	<b>Latitude:</b> 39° 23' 11.163 N
	<b>+E/-W</b> 0.0 usft	<b>Easting:</b> 1,759,513.02 usft	<b>Longitude:</b> 80° 34' 42.576 W
<b>Position Uncertainty</b> 2.0 usft	<b>Wellhead Elevation:</b> 908.0 usft	<b>Ground Level:</b> 880.0 usft	

<b>Wellbore</b> Original Wellpath
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/13/2013	-8.60	66.95	52,435

<b>Design</b> As Drilled
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**Audit Notes:**

<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	336.60

Survey Program	Date	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	12/9/2013	115.0	6,289.0	Survey #3 Def Gyro 2 (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
		6,351.0	13,989.0	Survey #4 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
115.0	0.10	108.60	115.0	0.0	0.1	-0.1	0.09
215.0	0.10	97.50	215.0	-0.1	0.3	-0.2	0.02
315.0	0.19	253.51	315.0	-0.1	0.2	-0.2	0.28
415.0	0.22	293.88	415.0	-0.1	-0.1	0.0	0.14
515.0	0.23	286.67	515.0	0.0	-0.5	0.2	0.03
615.0	0.26	264.08	615.0	0.1	-0.9	0.4	0.10
715.0	0.33	280.46	715.0	0.1	-1.4	0.7	0.11
815.0	0.37	295.70	815.0	0.3	-2.0	1.1	0.10
915.0	0.39	302.03	915.0	0.6	-2.6	1.6	0.05
1,015.0	0.46	311.75	1,015.0	1.1	-3.2	2.2	0.10

JUN 15 2015



EOW Completion Report



<b>Company:</b> Antero Resources	<b>Local Co-ordinate Reference:</b> Well Statler Unit 1H
<b>Project:</b> Doddridge County WV	<b>TVD Reference:</b> Statler 1H 880 GL + 28 KB @ 908.0usft
<b>Site:</b> Swiger/Trout/Statler/Welch Pad	<b>MD Reference:</b> Statler 1H 880 GL + 28 KB @ 908.0usft
<b>Well:</b> Statler Unit 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> Original Wellpath	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> As Drilled	<b>Database:</b> Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)
1,115.0	0.29	300.13	1,115.0	1.5	-3.7	2.8	0.19
1,215.0	1.03	314.76	1,215.0	2.2	-4.6	3.8	0.75
1,251.9	0.67	325.98	1,251.9	2.6	-4.9	4.4	1.07
1,283.0	0.18	342.81	1,283.0	2.8	-5.0	4.6	1.61
1,315.0	0.64	172.16	1,315.0	2.7	-5.0	4.5	2.56
1,346.0	1.81	166.10	1,346.0	2.0	-4.9	3.8	3.79
1,410.0	3.51	165.97	1,409.9	-0.8	-4.2	0.9	2.66
1,473.0	4.81	162.01	1,472.7	-5.2	-2.9	-3.6	2.11
1,537.0	5.39	165.03	1,536.5	-10.7	-1.3	-9.3	1.00
1,600.0	5.69	148.61	1,599.2	-16.2	1.1	-15.3	2.55
1,632.0	5.80	135.02	1,631.0	-18.7	3.1	-18.4	4.26
1,664.0	5.34	123.91	1,662.9	-20.7	5.5	-21.1	3.66
1,727.0	5.28	100.30	1,725.6	-22.8	10.8	-25.2	3.45
1,790.0	6.61	93.28	1,788.3	-23.6	17.2	-28.5	2.40
1,852.0	6.50	86.63	1,849.9	-23.5	24.3	-31.3	1.24
1,917.0	7.18	74.94	1,914.4	-22.3	31.9	-33.1	2.38
1,981.0	7.68	62.72	1,977.9	-19.3	39.6	-33.4	2.58
2,045.0	6.87	53.59	2,041.4	-15.0	46.4	-32.2	2.20
2,138.0	6.32	40.47	2,133.8	-7.8	54.2	-28.7	1.72
2,202.0	5.86	49.62	2,197.4	-3.1	59.0	-26.2	1.68
2,297.0	4.61	52.51	2,292.0	2.4	65.7	-23.9	1.34
2,392.0	2.94	41.03	2,386.8	6.6	70.4	-21.9	1.92
2,488.0	1.16	77.51	2,482.7	8.6	72.9	-21.0	2.21
2,551.0	1.20	85.94	2,545.7	8.8	74.2	-21.4	0.28
2,631.0	1.04	93.01	2,625.7	8.8	75.8	-22.0	0.26
2,790.0	0.38	58.56	2,784.7	9.0	77.7	-22.5	0.48
3,013.0	0.28	318.94	3,007.7	9.8	77.9	-21.9	0.23
3,300.0	0.59	316.30	3,294.7	11.4	76.5	-19.9	0.11
3,584.0	1.10	301.05	3,578.6	13.9	73.1	-16.3	0.19
3,742.0	0.99	296.32	3,736.6	15.3	70.6	-14.0	0.09
3,904.0	0.95	312.03	3,898.6	16.8	68.3	-11.7	0.17
4,064.0	0.76	339.59	4,058.6	18.7	67.0	-9.4	0.28
4,223.0	0.75	4.91	4,217.6	20.7	66.7	-7.5	0.21
4,510.0	0.69	339.93	4,504.5	24.2	66.3	-4.1	0.11
4,798.0	0.84	345.75	4,792.5	27.9	65.1	-0.3	0.06
5,084.0	0.75	357.53	5,078.5	31.8	64.6	3.5	0.07
5,369.0	0.74	348.21	5,363.5	35.5	64.1	7.1	0.04
5,560.0	0.32	352.93	5,554.5	37.2	63.8	8.8	0.22
6,133.0	0.30	250.02	6,127.4	38.3	62.2	10.4	0.08
6,289.0	0.47	282.48	6,283.4	38.3	61.2	10.8	0.17
6,351.0	0.51	283.70	6,345.4	38.4	60.6	11.1	0.07
6,382.0	0.42	297.11	6,376.4	38.5	60.4	11.3	0.45
6,414.0	3.20	5.10	6,408.4	39.4	60.4	12.2	9.59
6,445.0	8.18	10.99	6,439.3	42.4	60.9	14.8	16.15



**Company:** Antero Resources  
**Project:** Doddridge County WV  
**Site:** Swiger/Trout/Statler/Welch Pad  
**Well:** Statler Unit 1H  
**Wellbore:** Original Wellpath  
**Design:** As Drilled

**Local Co-ordinate Reference:** Well Statler Unit 1H  
**TVD Reference:** Statler 1H 880 GL + 28 KB @ 908.0usft  
**MD Reference:** Statler 1H 880 GL + 28 KB @ 908.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Oklahoma District

**Survey**

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)
6,477.0	11.24	11.63	6,470.8	47.7	61.9	19.2	9.57
6,510.0	13.94	12.86	6,503.0	54.8	63.5	25.0	8.22
6,540.0	15.72	2.73	6,532.0	62.3	64.5	31.6	10.46
6,572.0	18.10	353.24	6,562.6	71.6	64.1	40.3	11.37
6,605.0	20.58	348.23	6,593.8	82.4	62.3	50.9	9.04
6,634.0	22.89	344.69	6,620.7	92.8	59.8	61.4	9.15
<b>Middlesex</b>							
6,637.0	23.13	344.36	6,623.5	93.9	59.5	62.6	9.15
6,668.0	26.02	340.83	6,651.7	106.2	55.6	75.4	10.45
6,699.0	27.73	341.40	6,679.3	119.5	51.1	89.4	5.58
6,732.0	30.36	340.74	6,708.2	134.6	45.9	105.4	8.03
6,763.0	32.64	339.11	6,734.6	149.9	40.3	121.5	7.85
6,795.0	36.32	338.09	6,761.0	166.7	33.7	139.6	11.64
6,818.0	39.24	339.00	6,779.1	179.8	28.5	153.7	12.91
<b>Burkett</b>							
6,827.0	40.38	339.32	6,786.0	185.2	26.5	159.5	12.91
6,848.0	43.14	340.14	6,801.7	198.3	21.6	173.4	13.41
<b>Tully</b>							
6,859.0	44.59	340.54	6,809.6	205.5	19.1	181.0	13.41
6,890.0	48.72	341.01	6,830.9	226.8	11.7	203.5	13.37
6,922.0	52.05	340.54	6,851.3	250.1	3.5	228.1	10.47
6,953.0	55.21	339.90	6,869.7	273.6	-4.9	253.0	10.33
6,956.0	55.55	339.78	6,871.4	275.9	-5.8	255.5	11.78
<b>Hamilton</b>							
6,985.0	58.83	338.65	6,887.1	298.7	-14.4	279.8	11.78
7,016.0	63.45	338.43	6,902.1	323.9	-24.3	306.9	14.92
7,047.0	68.01	338.12	6,914.8	350.2	-34.8	335.2	14.74
7,060.0	69.14	338.14	6,919.6	361.4	-39.3	347.3	8.66
<b>Marcellus</b>							
7,079.0	70.78	338.18	6,926.1	378.0	-46.0	365.1	8.66
7,111.0	73.09	338.29	6,936.0	406.2	-57.2	395.5	7.23
7,143.0	75.99	338.79	6,944.5	434.9	-68.5	426.3	9.19
7,174.0	79.67	338.94	6,951.1	463.2	-79.4	456.6	11.88
7,206.0	84.28	338.59	6,955.5	492.7	-90.9	488.3	14.45
7,314.0	91.54	337.94	6,959.5	592.9	-130.9	596.1	6.75
7,408.0	91.45	336.63	6,957.0	679.6	-167.1	690.0	1.40
7,502.0	91.36	335.57	6,954.7	765.5	-205.2	784.0	1.13
7,597.0	91.36	335.31	6,952.4	851.9	-244.7	879.0	0.27
7,692.0	89.78	334.60	6,951.5	937.9	-284.9	973.9	1.82
7,786.0	90.48	336.89	6,951.3	1,023.6	-323.5	1,067.9	2.55
7,880.0	91.19	338.47	6,949.9	1,110.6	-359.2	1,161.9	1.84
7,975.0	92.68	338.47	6,946.7	1,198.9	-394.0	1,256.8	1.57
8,069.0	89.87	335.66	6,944.6	1,285.4	-430.7	1,350.7	4.23
8,164.0	90.31	334.43	6,944.5	1,371.5	-470.7	1,445.7	1.38
8,258.0	90.48	336.10	6,943.8	1,456.9	-510.1	1,539.7	1.79

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**Site:** Swiger/Trout/Statler/Welch Pad  
**Well:** Statler Unit 1H  
**Wellbore:** Original Wellpath  
**Design:** As Drilled

**Local Co-ordinate Reference:** Well Statler Unit 1H  
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**Survey**

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
8,353.0	90.40	336.54	6,943.1	1,543.9	-548.2	1,634.6	0.47
8,449.0	90.31	338.03	6,942.5	1,632.5	-585.3	1,730.6	1.55
8,544.0	90.31	337.33	6,942.0	1,720.3	-621.4	1,825.6	0.74
8,638.0	90.92	337.86	6,941.0	1,807.2	-657.2	1,919.6	0.86
8,734.0	89.96	336.80	6,940.2	1,895.8	-694.2	2,015.6	1.49
8,829.0	89.08	335.31	6,941.0	1,982.6	-732.8	2,110.6	1.82
8,923.0	89.43	337.07	6,942.3	2,068.6	-770.7	2,204.6	1.91
9,018.0	90.31	339.00	6,942.5	2,156.7	-806.2	2,299.5	2.23
9,111.0	90.84	337.77	6,941.5	2,243.2	-840.5	2,392.5	1.44
9,207.0	90.75	335.75	6,940.2	2,331.4	-878.4	2,488.5	2.11
9,303.0	91.28	334.17	6,938.5	2,418.3	-919.0	2,584.4	1.74
9,399.0	91.89	337.15	6,935.8	2,505.7	-958.5	2,680.3	3.17
9,495.0	91.36	336.10	6,933.1	2,593.8	-996.6	2,776.3	1.22
9,590.0	90.04	333.46	6,932.0	2,679.8	-1,037.1	2,871.2	3.11
9,686.0	89.69	333.64	6,932.2	2,765.7	-1,079.8	2,967.1	0.41
9,781.0	90.66	337.68	6,931.9	2,852.2	-1,119.0	3,062.1	4.37
9,877.0	89.96	335.31	6,931.4	2,940.3	-1,157.3	3,158.1	2.57
9,971.0	90.66	338.74	6,930.9	3,026.8	-1,193.9	3,252.0	3.72
10,067.0	90.22	337.15	6,930.1	3,115.8	-1,230.0	3,348.0	1.72
10,162.0	90.92	339.09	6,929.2	3,203.9	-1,265.4	3,443.0	2.17
10,257.0	88.81	335.75	6,929.4	3,291.6	-1,301.9	3,537.9	4.16
10,353.0	89.52	340.49	6,930.8	3,380.7	-1,337.6	3,633.9	4.99
10,448.0	88.64	339.09	6,932.3	3,469.8	-1,370.4	3,728.7	1.74
10,543.0	89.69	335.31	6,933.7	3,557.4	-1,407.2	3,823.7	4.13
10,637.0	90.22	336.54	6,933.8	3,643.2	-1,445.6	3,917.7	1.42
10,731.0	88.99	334.43	6,934.4	3,728.7	-1,484.6	4,011.6	2.60
10,826.0	88.55	334.60	6,936.5	3,814.4	-1,525.4	4,106.5	0.50
10,920.0	90.84	335.13	6,937.0	3,899.5	-1,565.4	4,200.5	2.50
11,015.0	90.00	336.67	6,936.3	3,986.2	-1,604.2	4,295.5	1.85
11,109.0	89.16	337.42	6,937.0	4,072.8	-1,640.8	4,389.5	1.20
11,204.0	88.90	337.33	6,938.6	4,160.5	-1,677.4	4,484.4	0.29
11,299.0	88.90	337.07	6,940.4	4,248.0	-1,714.2	4,579.4	0.27
11,393.0	90.57	336.89	6,940.8	4,334.5	-1,750.9	4,673.4	1.79
11,487.0	91.28	336.98	6,939.3	4,421.0	-1,787.7	4,767.4	0.76
11,581.0	91.54	336.27	6,937.0	4,507.3	-1,825.0	4,861.4	0.80
11,672.0	91.89	337.24	6,934.3	4,590.8	-1,860.9	4,952.3	1.13
11,763.0	91.71	337.33	6,931.4	4,674.7	-1,896.0	5,043.3	0.22
11,853.0	91.71	337.01	6,928.7	4,757.7	-1,931.0	5,133.2	0.36
11,942.0	90.31	336.54	6,927.2	4,839.4	-1,966.0	5,222.2	1.66
12,033.0	89.25	334.17	6,927.5	4,922.1	-2,004.0	5,313.2	2.85
12,124.0	90.31	336.01	6,927.9	5,004.7	-2,042.3	5,404.2	2.33
12,214.0	89.60	334.43	6,927.9	5,086.4	-2,080.0	5,494.1	1.92
12,304.0	90.22	334.69	6,928.1	5,167.6	-2,118.7	5,584.1	0.75
12,394.0	90.57	335.92	6,927.5	5,249.4	-2,156.3	5,674.0	1.42
12,485.0	89.78	338.56	6,927.2	5,333.3	-2,191.5	5,765.0	3.03



**Company:** Antero Resources  
**Project:** Doddridge County WV  
**Site:** Swiger/Trout/Statler/Welch Pad  
**Well:** Statler Unit 1H  
**Wellbore:** Original Wellpath  
**Design:** As Drilled

**Local Co-ordinate Reference:** Well Statler Unit 1H  
**TVD Reference:** Statler 1H 880 GL + 28 KB @ 908.0usft  
**MD Reference:** Statler 1H 880 GL + 28 KB @ 908.0usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Oklahoma District

**Survey**

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
12,576.0	88.37	337.94	6,928.7	5,417.8	-2,225.2	5,856.0	1.69
12,667.0	89.25	339.26	6,930.6	5,502.5	-2,258.4	5,946.9	1.74
12,762.0	88.81	338.38	6,932.2	5,591.1	-2,292.7	6,041.8	1.04
12,856.0	90.22	336.89	6,933.0	5,678.0	-2,328.5	6,135.8	2.18
12,950.0	90.40	336.10	6,932.4	5,764.2	-2,366.0	6,229.8	0.86
13,045.0	90.04	335.04	6,932.1	5,850.7	-2,405.3	6,324.8	1.18
13,139.0	90.40	335.13	6,931.7	5,936.0	-2,444.9	6,418.7	0.39
13,233.0	89.16	336.36	6,932.1	6,021.7	-2,483.5	6,512.7	1.86
13,328.0	88.72	336.89	6,933.8	6,108.8	-2,521.2	6,607.7	0.73
13,422.0	89.16	337.59	6,935.6	6,195.5	-2,557.5	6,701.7	0.88
13,516.0	88.64	337.59	6,937.4	6,282.4	-2,593.4	6,795.6	0.55
13,610.0	88.64	337.42	6,939.6	6,369.2	-2,629.3	6,889.6	0.18
13,704.0	88.55	337.33	6,941.9	6,456.0	-2,665.5	6,983.6	0.14
13,799.0	88.72	337.15	6,944.2	6,543.5	-2,702.2	7,078.5	0.26
13,894.0	88.37	334.69	6,946.6	6,630.2	-2,740.9	7,173.5	2.61
13,936.0	88.64	333.81	6,947.7	6,668.1	-2,759.2	7,215.4	2.19
13,989.0	88.98	334.33	6,948.8	6,715.7	-2,782.4	7,268.4	1.17

**Design Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,634.0	6,620.7	92.8	59.8	Middlesex
6,818.0	6,779.1	179.8	28.5	Burkett
6,848.0	6,801.7	198.3	21.6	Tully
6,956.0	6,871.4	275.9	-5.8	Hamilton
7,060.0	6,919.6	361.4	-39.3	Marcellus

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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JUN 15 2015

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MORGANTOWN, WV