



ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Field: Tyler
 Facility: Edna Monroe Pad
 Slot: Slot #02
 Well: Seckman Unit 2H ST01
 Wellbore: Seckman Unit 2H ST01 PWB



Reference wellbore is Seckman Unit 2H ST01 PWB Rev A-D
 True vertical depths are referenced to Patterson 343 (RKB)
 Measured depths are referenced to Patterson 343 (RKB)
 Patterson 343 (RKB) is Mean Sea Level - 1000 feet
 Mean Sea Level to Mud line (At Slot - Slot #02) - 1044 feet
 Coordinates are in feet referenced to GDA

Grid System: NAD83 / UTM Zone 17 North, US Feet
 ** Wellbore was transformed from a different geoidic datum

Scale: True distance
 Depth: in feet
 Created by: dabbat on 2016-12-22
 Database: WA_MPL_Enterprise_Dat

Slot	Well	Wellbore	Wellpath
Slot #02	Seckman Unit 2H	Seckman Unit 2H AVB	Seckman Unit 2H AVB Reg. 6000
Slot #02	Seckman Unit 2H ST01	Seckman Unit 2H ST01 AVB	Seckman Unit 2H ST01 AVB Reg. 15861
Slot #02	Seckman Unit 2H ST01	Seckman Unit 2H ST01 PWB	Seckman Unit 2H ST01 PWB Rev A-D

Gyrodata Cent. Gyro <17-12> (112-814) : 0.09" Inc, 112.00R MD, 112.00R TVD, -0.02R VS

Directional ONE MWD <8-3.4> (802)(876-5845) : 2.74" Inc, 802.00R MD, 801.94R TVD, -1.96R VS

Location Information			
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Longitude
Edna Monroe Pad	1678182.158	14315855.438	80°52'24.070"W
Slot	Local E (ft)	Local N (US Ft)	Longitude
Slot #02	-30.35	-1076178.950	80°52'24.110"W

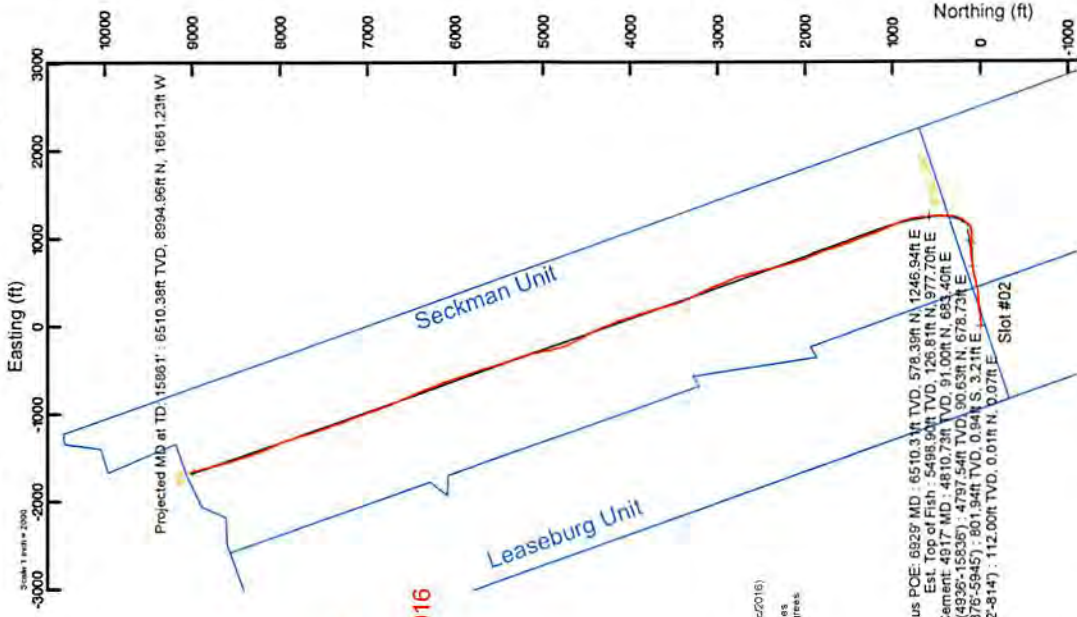
Well Profile Data			
Design Comment	MD (ft)	Az (°)	Local N (ft)
Top On	4903.00	19.550	50.03
Est TOC	4917.00	19.388	4810.74
Next Spt	4968.00	18.800	4537.04
Next Spt	5029.00	19.600	4518.48
Next Spt	5092.00	21.000	4275.54
Subtrack Point	5167.00	23.300	4044.98
LowRight	5242.00	20.838	3911.75
Curve ROP	5294.25	20.838	3817.53
End of 3D Arc	6024.57	42.015	276.33
POE	6932.81	71.005	350.485
Landing Pt.	7091.10	90.000	350.485
On AZI	7424.42	90.000	350.485
BHA	15839.42	90.000	340.485

BHAT Curve <8-127> (4903)(4936)-(15836) : 19.55" Inc, 4903.00R MD, 4797.54R TVD, -141.25R VS
 Top of Cement: 4917 MD : 19.48" Inc, 4917.00R MD, 4810.73R TVD, -142.46R VS

Top of Fish: 5667 MD : 21.70" Inc, 5667.00R MD, 5512.17R TVD, -221.78R VS

Marcellus POE 6929 MD : 73.81" Inc, 6929.00R MD, 6510.31R TVD, 128.74R VS

Projected MD at TD: 15895' : 89.75" Inc, 15861.00R MD, 6510.38R TVD, 9033.30R VS

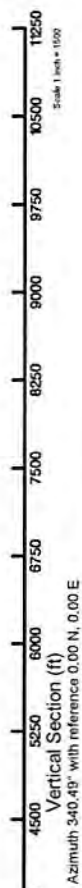


API: 47-095-02285-0000
 BHI Job #: 8311312
 Rig: Patterson 343
 Duration: 12/15/2016-12/20/2016

Use specified Dip, 48.777, East 62102921
 Magnetic North is 7.59 degrees West of True North (at 14Dec2016)
 Grid North is 0.08 degrees East of True North
 To correct azimuth from True to Grid subtract 0.09 degrees
 To correct azimuth from Magnetic to Grid subtract 7.67 degrees

Marcellus POE: 6929 MD : 6510.31R TVD, 578.39R N, 1246.94R E
 Est. Top of Fish : 5498.94R TVD, 128.81R N, 977.70R E
 Top of Cement: 4917 MD : 4810.73R TVD, 91.00R N, 693.40R E
 BHI AT Curve <8-127> (4903)(4936)-(15836) : 4797.54R TVD, 90.63R N, 678.73R E
 Directional ONE MWD <8-3.4> (802)(876-5845) : 801.94R TVD, 0.94R S, 3.21R E
 Gyrodata Cent. Gyro <17-12> (112-814) : 112.00R TVD, 0.01R N, 0.07R E

8/20/2018





Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Seckman Unit 2H ST01
Field	Tyler	Wellbore	Seckman Unit 2H ST01 AWB
Facility	Edna Monroe Pad	Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	22/Dec/2016 at 09:50
Convergence at slot	0.09° East	Database/Source file	WA_MPL_EasternUS_Defn/Seckman_Unit_2H_ST01_AWP_Proj_15861_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	30.35	-3.18	1676178.98	14315885.78	39°25'21.920"N	80°52'24.110"W
Facility Reference Pt			1676182.16	14315855.44	39°25'21.620"N	80°52'24.070"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 343 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 343 (RKB) to Mean Sea Level	1069.00ft
Vertical Reference Pt	Patterson 343 (RKB)	Patterson 343 (RKB) to Mud Line at Slot (Slot #02)	25.00ft
MD Reference Pt	Patterson 343 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.49°



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861

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REFERENCE WELLPATH IDENTIFICATION

Operator	Area	Field	Facility
ANTERO RESOURCES CORPORATION	Tyler County, WV	Tyler	Edna Monroe Pad
		Wellbore	Sidetrack from
		Well	Seckman Unit 2H ST01 AWB
		Well	Seckman Unit 2H ST01
		Slot	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

WELLPATH DATA (227 stations) † = Interpolated/extrapolated station											
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure
ft	°	°	ft	ft	ft	ft	ft	ft	ft	ft	ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1676178.98	14315885.78	39°25'21.92"N	80°52'24.11"W	0.00
25.00	0.00	85.07	25.00	0.00	0.00	0.00	1676178.98	14315885.78	39°25'21.92"N	80°52'24.11"W	0.00
112.00	0.00	85.07	112.00	-0.02	0.01	0.07	1676179.05	14315885.79	39°25'21.92"N	80°52'24.109"W	0.07
212.00	0.10	296.810	212.00	0.03	0.06	0.06	1676179.04	14315885.84	39°25'21.92"N	80°52'24.109"W	0.08
312.00	0.210	317.680	312.00	0.27	0.23	-0.15	1676178.83	14315886.01	39°25'21.92"N	80°52'24.112"W	0.28
412.00	0.190	342.110	412.00	0.61	0.53	-0.32	1676178.66	14315886.31	39°25'21.92"N	80°52'24.114"W	0.62
512.00	0.270	342.980	512.00	1.01	0.91	-0.44	1676178.54	14315886.69	39°25'21.92"N	80°52'24.116"W	1.01
612.00	0.340	342.980	612.00	1.01	0.91	-0.44	1676178.54	14315886.69	39°25'21.92"N	80°52'24.116"W	1.01
712.00	0.420	342.980	712.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
812.00	0.540	335.100	812.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
912.00	0.620	335.100	912.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1012.00	0.700	335.100	1012.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1112.00	0.780	335.100	1112.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1212.00	0.860	335.100	1212.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1312.00	0.940	335.100	1312.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1412.00	1.020	335.100	1412.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1512.00	1.100	335.100	1512.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1612.00	1.180	335.100	1612.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1712.00	1.260	335.100	1712.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1812.00	1.340	335.100	1812.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
1912.00	1.420	335.100	1912.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2012.00	1.500	335.100	2012.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2112.00	1.580	335.100	2112.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2212.00	1.660	335.100	2212.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2312.00	1.740	335.100	2312.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2412.00	1.820	335.100	2412.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2512.00	1.900	335.100	2512.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2612.00	1.980	335.100	2612.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2712.00	2.060	335.100	2712.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2812.00	2.140	335.100	2812.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
2912.00	2.220	335.100	2912.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3012.00	2.300	335.100	3012.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3112.00	2.380	335.100	3112.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3212.00	2.460	335.100	3212.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3312.00	2.540	335.100	3312.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3412.00	2.620	335.100	3412.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3512.00	2.700	335.100	3512.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3612.00	2.780	335.100	3612.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3712.00	2.860	335.100	3712.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3812.00	2.940	335.100	3812.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
3912.00	3.020	335.100	3912.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4012.00	3.100	335.100	4012.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4112.00	3.180	335.100	4112.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4212.00	3.260	335.100	4212.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4312.00	3.340	335.100	4312.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4412.00	3.420	335.100	4412.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4512.00	3.500	335.100	4512.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4612.00	3.580	335.100	4612.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4712.00	3.660	335.100	4712.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4812.00	3.740	335.100	4812.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
4912.00	3.820	335.100	4912.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5012.00	3.900	335.100	5012.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5112.00	3.980	335.100	5112.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5212.00	4.060	335.100	5212.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5312.00	4.140	335.100	5312.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5412.00	4.220	335.100	5412.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5512.00	4.300	335.100	5512.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5612.00	4.380	335.100	5612.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5712.00	4.460	335.100	5712.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5812.00	4.540	335.100	5812.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
5912.00	4.620	335.100	5912.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6012.00	4.700	335.100	6012.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6112.00	4.780	335.100	6112.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6212.00	4.860	335.100	6212.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6312.00	4.940	335.100	6312.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6412.00	5.020	335.100	6412.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6512.00	5.100	335.100	6512.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6612.00	5.180	335.100	6612.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6712.00	5.260	335.100	6712.00	1.19	1.08	-0.51	1676178.47	14315886.86	39°25'21.93"N	80°52'24.116"W	1.20
6812.00	5.340	335.100	6812								



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861



Operator		ANTERO RESOURCES CORPORATION	
Area	Tyler County, WV	Well	Seckman Unit 2H ST01
Field	Tyler	Wellbore	Seckman Unit 2H ST01 AWB
Facility	Edna Monroe Pad	Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

WELLPATH DATA (227 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(m)	(°)	(°)	(m)	(m)	(m)	(m)	(m)	(m)	(°)	(°)	(m)	(°)
1884.00	3.090	1878.69	-31.79	3.92	106.24	1676285.18	14315889.70	39.2521.957	80.5222.756	106.31	87.888	1.30
1947.00	1.240	125.870	1941.64	-33.08	3.34	108.48	1676287.42	39.2521.952	80.5222.728	108.53	88.235	-2.94
2010.00	0.870	137.730	2004.63	-34.08	2.59	109.35	1676288.29	39.2521.944	80.5222.716	109.39	88.644	0.68
2073.00	1.140	149.650	2067.62	-35.14	1.69	109.99	1676288.93	39.2521.935	80.5222.708	110.01	89.117	0.54
2136.00	1.360	156.310	2130.61	-36.50	0.47	110.61	1676289.55	39.2521.923	80.5222.700	110.61	89.757	0.42
2199.00	1.130	161.450	2193.59	-37.86	-0.76	111.21	1676290.14	39.2521.911	80.5222.693	111.21	90.392	0.40
2262.00	0.650	108.570	2256.59	-38.69	-1.42	111.84	1676290.78	39.2521.904	80.5222.685	111.85	90.728	1.25
2325.00	0.660	2319.58	-38.73	-1.26	112.42	1676291.35	14315884.52	39.2521.896	80.5222.677	112.43	90.642	1.16
2388.00	0.940	26.620	2382.58	-38.19	-0.52	112.89	1676291.82	39.2521.885	80.5222.671	112.89	90.266	0.54
2450.00	1.540	29.740	2444.56	-37.30	0.65	113.53	1676292.46	39.2521.875	80.5222.663	113.53	89.670	0.97
2514.00	1.270	35.670	2508.54	-36.33	1.98	114.37	1676293.30	39.2521.868	80.5222.653	114.39	89.009	0.48
2588.00	0.200	3.630	2582.54	-35.75	2.77	114.86	1676293.79	39.2521.846	80.5222.646	114.89	88.617	1.49
2699.00	0.690	215.850	2693.53	-35.95	2.42	114.48	1676293.41	39.2521.842	80.5222.651	114.50	88.787	0.78
2761.00	0.480	189.120	2755.53	-36.39	1.87	114.22	1676293.15	39.2521.837	80.5222.655	114.23	89.064	0.55
2824.00	0.930	71.580	2818.53	-36.63	1.77	114.66	1676293.59	39.2521.836	80.5222.649	114.67	89.117	1.95
2887.00	2.190	73.150	2881.50	-36.69	2.28	116.30	1676295.23	39.2521.941	80.5222.628	116.32	88.878	2.00
2950.00	2.150	66.610	2944.46	-36.67	3.09	118.53	1676297.47	39.2521.949	80.5222.599	118.57	88.504	0.40
3013.00	3.100	67.940	3007.39	-36.51	4.20	121.20	1676300.13	39.2521.960	80.5222.566	121.27	88.013	1.51
3076.00	4.110	75.790	3070.27	-36.65	5.40	124.96	1676303.89	39.2521.972	80.5222.517	125.08	87.527	1.78
3139.00	5.240	77.930	3133.06	-37.23	6.55	129.97	1676308.89	39.2521.983	80.5222.454	130.13	87.113	1.81
3201.00	6.870	75.410	3194.71	-37.91	8.08	136.32	1676315.25	39.2521.998	80.5222.373	136.56	86.608	2.66
3264.00	8.300	74.390	3257.16	-38.55	10.25	144.35	1676323.27	39.2522.019	80.5222.270	144.71	85.937	2.28
3327.00	9.200	74.940	3319.42	-39.25	12.78	153.59	1676332.51	39.2522.044	80.5222.153	154.12	85.242	1.43
3390.00	9.870	81.230	3381.55	-40.64	14.92	163.79	1676342.71	39.2522.065	80.5222.023	164.47	84.796	1.96
3453.00	11.100	81.920	3443.50	-42.85	16.59	175.13	1676354.04	39.2522.082	80.5221.878	175.92	84.688	1.96
3516.00	12.980	82.680	3505.11	-45.55	18.35	188.16	1676367.06	39.2522.099	80.5221.712	189.05	84.431	2.99
3579.00	13.430	86.340	3566.45	-49.04	19.72	202.48	1676381.38	39.2522.112	80.5221.530	203.43	84.439	1.51
3642.00	14.870	86.740	3627.53	-53.30	20.64	217.85	1676396.74	39.2522.121	80.5221.334	218.83	84.587	2.29
3704.00	16.170	86.320	3687.27	-57.88	21.65	234.41	1676413.29	39.2522.131	80.5221.123	235.41	84.724	2.10
3767.00	17.750	84.720	3747.53	-62.63	23.10	252.73	1676431.60	39.2522.145	80.5220.889	253.78	84.779	2.61

Comments	Turn Rate	T/100ft	Build Rate	T/100ft	DLS	T/100ft	Closure Dir	(°)	Closure Dist	(m)	Longitude	(°)	Latitude	(°)	Grid North	(m)	Grid East	(m)	East	(m)	North	(m)	Vert Sect	(m)	TVD	(m)	Azimuth	(°)	Inclination	(°)	MD	(m)
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Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Seckman Unit 2H ST01
Field	Tyler	Wellbore	Seckman Unit 2H ST01 AWB
Facility	Edna Monroe Pad	Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

WELLPATH DATA (227 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
3830.00	18.890	85.530	3807.34	-67.64	24.77	272.46	1676451.33	14315910.54	39°25'22.161"N	80°52'20.638"W	273.58	84.805	1.85	1.81	1.29	
3893.00	20.610	85.500	3866.63	-73.16	26.44	293.68	1676472.54	14315912.21	39°25'22.177"N	80°52'20.367"W	294.87	84.856	2.73	2.73	-0.05	
3956.00	21.830	86.500	3925.36	-79.26	28.02	316.43	1676495.28	14315913.79	39°25'22.193"N	80°52'20.077"W	317.66	84.939	2.02	1.94	1.59	
4019.00	23.310	87.190	3983.53	-86.08	29.35	340.57	1676519.41	14315915.12	39°25'22.205"N	80°52'19.770"W	341.83	85.074	2.39	2.35	1.10	
4082.00	24.580	85.380	4041.11	-93.02	31.02	366.08	1676544.91	14315916.78	39°25'22.221"N	80°52'19.445"W	367.39	85.157	2.33	2.02	-2.87	
4145.00	24.090	81.990	4098.51	-98.96	33.86	391.87	1676570.70	14315919.63	39°25'22.249"N	80°52'19.116"W	393.33	85.061	2.35	-0.78	-5.38	
4208.00	24.320	81.940	4155.97	-104.09	37.47	417.45	1676596.26	14315923.24	39°25'22.285"N	80°52'18.790"W	419.13	84.870	0.37	0.37	-0.08	
4271.00	23.630	79.160	4213.54	-108.57	41.67	442.70	1676621.50	14315927.43	39°25'22.326"N	80°52'18.468"W	444.65	84.623	2.10	-1.10	-4.41	
4334.00	23.590	78.070	4271.27	-112.14	46.65	467.43	1676646.22	14315932.41	39°25'22.375"N	80°52'18.153"W	469.75	84.301	0.70	-0.06	-1.73	
4397.00	22.630	75.970	4329.21	-114.96	52.19	491.52	1676670.31	14315937.95	39°25'22.429"N	80°52'17.846"W	494.29	83.939	2.01	-1.52	-3.33	
4460.00	23.480	75.990	4387.18	-117.32	58.17	515.46	1676694.23	14315943.93	39°25'22.488"N	80°52'17.541"W	518.73	83.561	1.35	1.35	0.03	
4524.00	23.280	74.360	4445.92	-119.40	64.67	540.01	1676718.77	14315950.42	39°25'22.552"N	80°52'17.228"W	543.87	83.171	1.06	-0.31	-2.55	
4587.00	23.040	78.090	4503.85	-121.87	70.57	564.06	1676742.82	14315956.32	39°25'22.610"N	80°52'16.921"W	568.46	82.869	2.36	-0.38	5.92	
4650.00	22.480	76.420	4561.94	-124.74	75.94	587.83	1676766.58	14315961.69	39°25'22.662"N	80°52'16.618"W	592.72	82.639	1.36	-0.89	-2.65	
4713.00	21.930	79.310	4620.27	-127.79	80.95	611.10	1676789.84	14315966.70	39°25'22.712"N	80°52'16.321"W	616.44	82.454	1.94	-0.87	4.59	
4776.00	21.730	80.800	4678.76	-131.68	85.00	634.18	1676812.90	14315970.74	39°25'22.751"N	80°52'16.027"W	639.85	82.366	0.93	-0.32	2.37	
4840.00	20.790	82.680	4738.40	-136.20	88.34	657.14	1676835.85	14315974.08	39°25'22.784"N	80°52'15.735"W	663.05	82.344	1.81	-1.47	2.94	
4903.00	19.550	85.270	4797.54	-141.25	90.63	678.73	1676857.44	14315978.38	39°25'22.806"N	80°52'15.459"W	684.76	82.394	2.43	-1.97	4.11	BHI AT Curve <8-1/2"> (4903')(4936'-15836')
4917.00†	19.477	85.734	4810.73	-142.46	91.00	683.40	1676862.10	14315979.74	39°25'22.810"N	80°52'15.400"W	689.43	82.415	1.22	-0.52	3.32	Top of Cement: 4917' MD
4936.00	19.380	86.370	4828.65	-144.16	91.43	689.70	1676868.40	14315977.18	39°25'22.814"N	80°52'15.320"W	695.73	82.448	1.22	-0.51	3.35	
4983.00	18.910	85.460	4873.05	-148.26	92.53	705.08	1676883.77	14315978.27	39°25'22.825"N	80°52'15.124"W	711.12	82.524	1.18	-1.00	-1.94	
5030.00	19.920	83.970	4917.38	-152.09	93.97	720.63	1676899.32	14315979.72	39°25'22.839"N	80°52'14.926"W	726.73	82.570	2.39	2.15	-3.17	
5077.00	20.870	83.380	4961.43	-155.83	95.78	736.91	1676915.59	14315981.52	39°25'22.856"N	80°52'14.718"W	743.11	82.594	2.07	2.02	-1.26	
5125.00	21.730	82.160	5006.15	-159.53	97.98	754.20	1676932.88	14315983.72	39°25'22.878"N	80°52'14.498"W	760.54	82.598	2.02	1.79	-2.54	
5172.00	23.180	82.220	5049.59	-163.17	100.42	771.99	1676950.66	14315986.16	39°25'22.902"N	80°52'14.271"W	778.49	82.589	3.09	3.09	0.13	
5219.00	19.350	82.710	5093.38	-166.70	102.66	788.88	1676967.55	14315988.40	39°25'22.924"N	80°52'14.056"W	795.54	82.586	8.16	-8.15	1.04	
5266.00	19.220	85.320	5137.74	-170.33	104.28	804.32	1676982.98	14315990.02	39°25'22.939"N	80°52'13.859"W	811.05	82.613	1.85	-0.28	5.55	
5313.00	19.700	85.960	5182.06	-174.42	105.47	819.93	1676998.58	14315991.21	39°25'22.951"N	80°52'13.660"W	826.69	82.670	1.12	1.02	1.36	
5361.00	20.250	88.040	5227.17	-179.08	106.32	836.30	1677014.95	14315992.06	39°25'22.959"N	80°52'13.451"W	843.03	82.755	1.87	1.15	4.33	
5408.00	20.850	90.550	5271.18	-184.41	106.52	852.80	1677031.44	14315992.26	39°25'22.961"N	80°52'13.241"W	859.42	82.880	2.27	1.28	5.34	



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Seckman Unit 2H ST01
Field	Tyler	Wellbore	Seckman Unit 2H ST01 AWB
Facility	Edna Monroe Pad	Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

WELLPATH DATA (227 stations) † = interpolated/extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	["/100ft]	["/100ft]	["/100ft]	
5455.00	20.770	95.330	5315.12	-190.78	105.66	869.46	1677048.09	14315991.40	39°25'22.952"N	80°52'13.029"W	875.86	83.071	3.62	-0.17	10.17	
5502.00	21.570	97.120	5358.95	-198.15	103.82	886.33	1677054.96	14315989.56	39°25'22.934"N	80°52'12.814"W	892.39	83.319	2.19	1.70	3.81	
5549.00	21.880	95.450	5402.61	-205.72	101.92	903.62	1677082.24	14315987.66	39°25'22.915"N	80°52'12.594"W	909.35	83.565	1.47	0.66	-3.55	
5596.00	21.850	92.310	5446.23	-212.66	100.73	921.08	1677099.69	14315986.47	39°25'22.903"N	80°52'12.371"W	926.57	83.759	2.49	-0.06	-6.68	
5643.00	21.740	90.130	5489.87	-218.84	100.36	938.52	1677117.13	14315986.10	39°25'22.899"N	80°52'12.149"W	943.87	83.896	1.74	-0.23	-4.64	
5667.00†	21.704	89.536	5512.17	-221.78	100.39	947.40	1677126.01	14315986.13	39°25'22.899"N	80°52'12.036"W	952.71	83.952	0.93	-0.15	-2.48	Top of Fish: 5667' MD
5691.00	21.670	88.940	5534.47	-224.63	100.50	956.27	1677134.87	14315986.24	39°25'22.900"N	80°52'11.923"W	961.54	84.000	0.93	-0.14	-2.48	
5706.00	21.800	88.930	5548.40	-226.39	100.61	961.83	1677140.42	14315986.35	39°25'22.901"N	80°52'11.852"W	967.07	84.029	0.87	0.87	-0.07	
5738.00	21.750	89.070	5578.12	-230.16	100.81	973.70	1677152.29	14315986.55	39°25'22.903"N	80°52'11.701"W	978.90	84.089	0.23	-0.16	0.44	
5769.00	21.360	89.590	5606.95	-233.84	100.95	985.08	1677163.67	14315986.69	39°25'22.904"N	80°52'11.556"W	990.24	84.149	1.40	-1.26	1.68	
5801.00	20.840	90.500	5636.80	-237.69	100.94	996.60	1677175.18	14315986.68	39°25'22.904"N	80°52'11.409"W	1001.70	84.217	1.92	-1.62	2.84	
5832.00	20.900	90.550	5665.77	-241.48	100.84	1007.65	1677186.22	14315986.58	39°25'22.903"N	80°52'11.268"W	1012.68	84.285	0.20	0.19	0.16	
5863.00	20.900	91.560	5694.73	-245.36	100.64	1018.70	1677197.28	14315986.38	39°25'22.900"N	80°52'11.127"W	1023.66	84.358	1.16	0.00	3.26	
5926.00	20.920	92.540	5753.58	-253.62	99.83	1041.17	1677219.74	14315985.57	39°25'22.892"N	80°52'10.841"W	1045.95	84.523	0.56	0.03	1.56	
5973.00	20.930	92.380	5797.48	-259.90	99.11	1057.94	1677236.50	14315984.85	39°25'22.885"N	80°52'10.627"W	1062.58	84.648	0.12	0.02	-0.34	
6021.00	20.360	87.940	5842.40	-265.60	99.05	1074.86	1677253.40	14315984.80	39°25'22.884"N	80°52'10.412"W	1079.41	84.735	3.47	-1.19	-9.25	
6068.00	19.600	79.820	5886.58	-269.33	100.74	1090.79	1677269.33	14315986.48	39°25'22.900"N	80°52'10.209"W	1095.43	84.723	6.12	-1.62	-17.28	
6115.00	21.480	66.950	5930.61	-270.08	105.51	1106.47	1677285.01	14315991.25	39°25'22.947"N	80°52'10.009"W	1111.49	84.553	10.38	4.00	-27.38	
6162.00	23.630	59.110	5974.03	-267.69	113.72	1122.48	1677301.01	14315999.45	39°25'23.028"N	80°52'09.804"W	1128.23	84.215	7.86	4.57	-16.68	
6209.00	24.330	53.580	6016.98	-263.01	124.30	1138.36	1677316.88	14316010.03	39°25'23.133"N	80°52'09.602"W	1145.12	83.768	5.01	1.49	-11.77	
6256.00	25.190	47.070	6059.66	-256.22	136.86	1153.48	1677331.99	14316022.59	39°25'23.256"N	80°52'09.409"W	1161.57	83.233	6.08	1.83	-13.85	
6304.00	27.170	42.390	6102.74	-247.00	151.92	1168.35	1677346.86	14316037.64	39°25'23.405"N	80°52'09.219"W	1178.18	82.591	5.96	4.13	-9.75	
6351.00	28.520	39.400	6144.30	-236.15	168.52	1182.70	1677361.21	14316054.23	39°25'23.569"N	80°52'09.036"W	1194.65	81.891	4.13	2.87	-6.36	
6398.00	31.410	35.670	6185.02	-223.36	187.14	1196.97	1677375.47	14316072.85	39°25'23.753"N	80°52'08.854"W	1211.51	81.114	7.31	6.15	-7.94	
6446.00	34.760	29.190	6225.24	-207.17	209.26	1210.95	1677389.44	14316094.96	39°25'23.971"N	80°52'08.675"W	1228.90	80.196	10.14	6.98	-13.50	
6493.00	36.860	24.490	6263.36	-188.19	233.79	1223.33	1677401.82	14316119.48	39°25'24.213"N	80°52'08.517"W	1245.47	79.180	7.36	4.47	-10.00	
6540.00	39.460	20.820	6300.32	-166.65	260.59	1234.48	1677412.97	14316146.27	39°25'24.478"N	80°52'08.375"W	1261.69	78.080	7.34	5.53	-7.81	
6587.00	43.440	14.460	6335.56	-141.85	290.22	1243.84	1677422.32	14316175.89	39°25'24.771"N	80°52'08.255"W	1277.25	76.866	12.32	8.47	-13.53	
6605.00†	45.230	11.949	6348.43	-131.26	302.47	1246.70	1677425.19	14316188.13	39°25'24.892"N	80°52'08.218"W	1282.87	76.363	13.92	9.94	-13.95	Middlesex: 6605' MD
6634.00	48.220	8.220	6368.31	-112.90	323.25	1250.38	1677428.86	14316208.90	39°25'25.097"N	80°52'08.171"W	1291.49	75.505	13.92	10.31	-12.86	



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Edna Monroe Pad
Well	Seckman Unit 2H ST01
Wellbore	Seckman Unit 2H ST01 AWB
Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

WELLPATH DATA (227 stations)		MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Bullid Rate	Turn Rate	Comments
ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
8849.00	90.650	348.660	6523.40	2038.38	2396.81	661.16	1676839.88	14318281.63	39°25'45.60"N	80°52'15.64"W	2486.33	15.422	3.36	1.11	0.00	3.17		
8943.00	90.650	346.050	6522.33	2131.69	2488.51	640.59	1676819.31	14318373.29	39°25'46.50"N	80°52'15.90"W	2569.64	14.436	2.78	0.00	-2.78			
9038.00	90.740	344.710	6521.18	2226.34	2580.43	616.61	1676795.35	14318465.17	39°25'47.41"N	80°52'16.20"W	2653.08	13.439	1.41	0.09	-1.41			
9132.00	90.740	344.830	6519.97	2320.07	2671.12	591.92	1676770.66	14318555.83	39°25'48.31"N	80°52'16.51"W	2735.92	12.495	0.13	0.00	0.13			
9226.00	91.540	342.790	6518.10	2413.88	2761.37	565.72	1676744.47	14318646.04	39°25'49.20"N	80°52'16.85"W	2818.72	11.578	2.33	0.85	-2.17			
9320.00	91.020	337.380	6516.00	2507.82	2849.69	533.72	1676712.49	14318734.33	39°25'50.07"N	80°52'17.25"W	2899.24	10.608	5.78	-0.55	-5.76			
9415.00	90.890	338.230	6514.41	2602.70	2937.64	497.84	1676676.62	14318822.24	39°25'50.94"N	80°52'17.71"W	2979.52	9.618	0.91	-0.14	0.89			
9509.00	91.750	340.200	6512.25	2696.65	3025.49	464.49	1676643.29	14318910.06	39°25'51.81"N	80°52'18.13"W	3060.94	8.728	2.29	0.91	2.25			
9604.00	90.950	335.210	6510.01	2791.48	3113.34	428.47	1676607.28	14318997.87	39°25'52.68"N	80°52'18.59"W	3142.68	7.836	5.32	-0.84	-5.25			
9698.00	90.490	332.590	6508.83	2884.84	3197.74	387.12	1676565.95	14319082.24	39°25'53.51"N	80°52'19.11"W	3221.08	6.903	2.83	-0.49	-2.79			
9792.00	90.580	334.070	6507.95	2978.10	3281.73	344.94	1676523.78	14319166.20	39°25'54.35"N	80°52'19.65"W	3299.81	6.000	1.58	0.10	1.57			
9886.00	89.910	335.780	6507.55	3071.66	3366.87	305.10	1676483.96	14319251.30	39°25'55.19"N	80°52'20.16"W	3380.66	5.178	1.95	-0.71	1.82			
9981.00	89.910	339.060	6507.70	3166.51	3454.57	268.63	1676447.50	14319338.97	39°25'56.05"N	80°52'20.62"W	3465.00	4.446	3.45	0.00	3.45			
10075.00	89.600	344.930	6508.10	3260.43	3543.93	239.59	1676418.47	14319428.29	39°25'56.94"N	80°52'20.99"W	3552.02	3.668	6.25	-0.33	6.24			
10169.00	90.860	346.810	6507.72	3354.01	3635.08	216.64	1676395.53	14319519.40	39°25'57.84"N	80°52'21.28"W	3641.53	3.411	2.41	1.34	2.00			
10264.00	90.980	343.990	6506.20	3448.64	3726.99	192.70	1676371.60	14319611.28	39°25'58.73"N	80°52'21.58"W	3731.97	2.960	2.97	0.13	-2.97			
10358.00	90.800	341.640	6504.73	3542.55	3816.78	164.93	1676343.84	14319701.03	39°25'59.64"N	80°52'21.94"W	3820.34	2.474	2.51	-0.19	-2.50			
10453.00	90.400	341.500	6503.74	3637.52	3906.90	134.90	1676313.82	14319791.11	39°26'00.53"N	80°52'22.32"W	3909.23	1.978	0.45	-0.42	-0.15			
10547.00	90.660	342.690	6502.71	3731.48	3996.34	106.00	1676284.94	14319880.52	39°26'01.41"N	80°52'22.68"W	3997.74	1.519	1.36	0.49	1.27			
10641.00	90.710	342.940	6501.42	3825.39	4066.13	78.23	1676257.18	14319970.28	39°26'02.30"N	80°52'23.04"W	4068.88	1.097	0.31	-0.16	0.27			
10735.00	90.680	338.410	6500.28	3919.36	4174.81	47.13	1676226.10	14320058.91	39°26'03.18"N	80°52'23.43"W	4175.07	0.647	4.82	-0.03	-4.82			
10829.00	90.740	338.750	6499.11	4013.30	4262.31	12.81	1676191.78	14320146.38	39°26'04.04"N	80°52'23.87"W	4262.33	0.172	0.37	0.06	0.36			
10924.00	90.770	336.620	6497.86	4108.17	4350.18	-23.26	1676155.73	14320234.22	39°26'04.91"N	80°52'24.32"W	4350.24	359.694	2.24	0.03	-2.24			
11018.00	90.710	333.110	6496.65	4201.70	4435.26	-63.18	1676115.83	14320319.26	39°26'05.75"N	80°52'24.83"W	4435.71	359.184	3.73	-0.06	-3.73			
11112.00	90.580	332.430	6495.59	4294.84	4518.84	-106.18	1676072.84	14320402.81	39°26'06.58"N	80°52'25.38"W	4520.08	358.654	0.74	-0.14	-0.72			
11207.00	91.050	332.260	6494.24	4388.87	4602.97	-150.27	1676028.77	14320486.91	39°26'07.41"N	80°52'25.94"W	4605.43	358.130	0.53	0.49	-0.18			
11301.00	89.420	333.880	6493.85	4482.08	4686.77	-192.84	1675986.22	14320570.68	39°26'08.24"N	80°52'26.48"W	4680.74	357.644	2.44	-1.73	1.72			
11396.00	90.250	341.820	6494.13	4576.90	4774.69	-228.63	1675950.44	14320658.56	39°26'09.11"N	80°52'26.93"W	4780.16	4780.16	357.259	8.40	0.87	8.36		
11490.00	89.970	343.580	6493.95	4670.83	4864.44	-256.58	1675922.50	14320748.27	39°26'10.00"N	80°52'27.29"W	4871.20	4871.20	356.981	1.90	-0.30	1.87		
11584.00	89.110	350.020	6494.70	4764.20	4955.90	-278.04	1675901.06	14320839.69	39°26'10.90"N	80°52'27.56"W	4963.69	4963.69	356.789	6.91	-0.91	6.85		



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861



Operator	Area	Field	Facility
ANTERO RESOURCES CORPORATION	Tyler County, WV	Tyler	Edna Monroe Pad
Slot #02	Well	Wellbore	Sidetrack from
	Seckman Unit 2H ST01	Seckman Unit 2H ST01 AWB	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

WELLPATH DATA (227 stations)											
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Comments
(m)	(°)	(°)	(m)	(m)	(m)	(m)	(m)	(m)	(° N)	(° W)	(m)
1178.00	90.580	348.530	6494.96	4857.10	5048.25	-295.53	1675883.57	14320932.01	39°26'11.818"N	80°52'27.786"W	5056.89
1173.00	93.420	347.000	6491.64	4951.26	5141.03	-315.64	1675863.46	14321024.75	39°26'12.736"N	80°52'28.041"W	5150.71
1167.00	91.020	341.190	6488.00	5044.96	5231.31	-341.38	1675837.74	14321115.00	39°26'13.628"N	80°52'28.367"W	5242.44
11961.00	89.260	338.490	6487.77	5138.94	5319.54	-373.77	1675805.36	14321203.19	39°26'14.501"N	80°52'28.779"W	5332.66
12055.00	89.630	341.040	6488.68	5232.92	5407.73	-406.28	1675772.87	14321291.34	39°26'15.573"N	80°52'29.191"W	5422.97
12149.00	88.710	342.870	6490.04	5326.87	5497.09	-435.39	1675743.77	14321380.67	39°26'16.266"N	80°52'29.561"W	5514.31
12244.00	89.570	345.650	6491.46	5421.65	5588.51	-461.15	1675718.01	14321472.05	39°26'17.160"N	80°52'29.888"W	5607.50
12338.00	90.490	343.360	6491.42	5515.41	5679.09	-486.26	1675692.91	14321562.59	39°26'18.056"N	80°52'30.206"W	5699.87
12433.00	89.480	339.910	6491.44	5610.37	5769.23	-516.19	1675663.00	14321652.70	39°26'18.947"N	80°52'30.586"W	5792.28
12527.00	89.200	341.060	6492.52	5704.37	5857.82	-547.59	1675631.61	14321741.26	39°26'19.823"N	80°52'30.985"W	5883.36
12621.00	89.380	344.820	6493.69	5798.25	5947.69	-575.08	1675604.13	14321831.09	39°26'20.712"N	80°52'31.333"W	5975.43
12716.00	90.250	342.100	6494.00	5893.11	6020.04	-602.04	1675577.18	14321922.13	39°26'21.612"N	80°52'31.675"W	6068.71
12810.00	91.420	338.280	6492.62	5987.08	6127.18	-633.89	1675545.34	14322010.51	39°26'22.487"N	80°52'32.080"W	6159.88
12904.00	88.680	337.550	6492.54	6080.97	6214.27	-669.23	1675510.02	14322097.57	39°26'23.348"N	80°52'32.529"W	6250.21
12998.00	89.050	342.470	6494.41	6174.92	6302.57	-701.35	1675477.91	14322185.82	39°26'24.221"N	80°52'32.936"W	6341.47
13093.00	88.980	337.010	6495.04	6269.87	6391.64	-734.23	1675445.05	14322274.86	39°26'25.102"N	80°52'33.354"W	6433.68
13187.00	89.140	334.180	6497.58	6363.50	6477.22	-773.06	1675406.23	14322360.41	39°26'25.948"N	80°52'33.847"W	6523.19
13281.00	89.780	338.380	6498.47	6457.22	6563.26	-810.86	1675368.45	14322446.41	39°26'26.799"N	80°52'34.328"W	6613.16
13376.00	89.880	336.010	6498.75	6552.06	6650.83	-847.88	1675331.64	14322533.94	39°26'27.665"N	80°52'34.795"W	6704.63
13470.00	89.780	338.030	6499.03	6645.77	6736.71	-885.88	1675293.45	14322619.79	39°26'28.514"N	80°52'35.281"W	6794.71
13563.00	89.750	339.430	6499.41	6738.65	6822.76	-921.12	1675258.23	14322707.81	39°26'29.365"N	80°52'35.729"W	6884.66
13658.00	89.780	343.090	6499.80	6833.62	6912.71	-951.64	1675227.73	14322795.72	39°26'30.255"N	80°52'36.116"W	6977.90
13752.00	89.910	342.020	6500.06	6927.56	7002.38	-979.82	1675199.56	14322885.36	39°26'31.141"N	80°52'36.474"W	7070.60
13846.00	89.750	338.390	6500.33	7021.54	7090.81	-1011.64	1675167.74	14322973.75	39°26'32.016"N	80°52'36.878"W	7162.62
13941.00	89.780	337.740	6500.72	7116.46	7178.94	-1047.13	1675132.27	14323061.84	39°26'32.887"N	80°52'37.328"W	7254.90
14035.00	89.750	340.300	6501.11	7210.42	7266.70	-1080.78	1675098.63	14323149.57	39°26'33.755"N	80°52'37.756"W	7346.63
14129.00	89.750	341.890	6501.52	7304.41	7355.62	-1111.24	1675068.19	14323238.46	39°26'34.634"N	80°52'38.143"W	7439.09
14223.00	90.620	337.550	6501.22	7398.38	7443.77	-1143.81	1675035.63	14323326.57	39°26'35.506"N	80°52'38.556"W	7531.14
14318.00	89.910	338.630	6500.78	7493.29	7531.91	-1179.26	1675000.19	14323414.67	39°26'36.378"N	80°52'39.007"W	7623.67
14412.00	89.600	343.190	6501.18	7587.26	7620.71	-1209.99	1674969.47	14323503.44	39°26'37.258"N	80°52'39.397"W	7716.18



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Edna Monroe Pad
Slot	Slot #02
Well	Seckman Unit 2H ST01
Wellbore	Seckman Unit 2H ST01 AWB
Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
14506.00	89.850	346.000	6501.63	7681.01	7711.33	-1234.96	1674944.51	14323594.02	39°26'38.152"N	80°52'43.713"W	7809.59	350.901	3.00	0.27	2.99	
14600.00	89.540	344.230	6502.13	7774.70	7802.17	-1259.11	1674920.38	14323684.82	39°26'39.050"N	80°52'40.020"W	7903.11	350.833	1.91	-0.33	-1.88	
14694.00	89.540	341.010	6502.89	7868.62	7891.86	-1287.18	1674892.32	14323774.48	39°26'39.937"N	80°52'40.376"W	7996.14	350.736	3.43	0.00	-3.43	
14789.00	89.480	337.000	6503.70	7963.56	7980.53	-1321.21	1674858.30	14323983.12	39°26'40.813"N	80°52'40.808"W	8089.16	350.600	4.22	-0.06	-4.22	
14882.00	89.570	336.200	6504.47	8056.34	8065.88	-1358.14	1674821.38	14323948.43	39°26'41.657"N	80°52'41.277"W	8179.42	350.442	0.87	0.10	-0.86	
14976.00	89.510	334.560	6505.22	8149.96	8151.33	-1397.30	1674782.24	14324033.84	39°26'42.502"N	80°52'41.775"W	8270.22	350.273	1.75	-0.06	-1.74	
15071.00	89.540	338.640	6506.01	8244.72	8238.49	-1435.02	1674744.54	14324120.97	39°26'43.364"N	80°52'42.254"W	8362.54	350.119	4.29	0.03	4.29	
15165.00	89.450	342.030	6506.84	8338.70	8327.00	-1466.65	1674712.92	14324209.44	39°26'44.240"N	80°52'42.656"W	8455.17	350.011	3.61	-0.10	3.61	
15259.00	89.510	341.720	6507.69	8432.67	8416.33	-1495.89	1674683.69	14324298.74	39°26'45.123"N	80°52'43.027"W	8548.23	349.922	0.34	0.06	-0.33	
15353.00	89.720	342.310	6508.33	8526.64	8505.73	-1524.91	1674654.68	14324388.11	39°26'46.007"N	80°52'43.396"W	8641.34	349.836	0.67	0.22	0.63	
15448.00	89.750	343.560	6509.15	8621.55	8596.55	-1552.79	1674626.81	14324478.88	39°26'46.905"N	80°52'43.749"W	8735.66	349.761	1.32	0.03	1.32	
15542.00	89.780	345.560	6509.15	8715.31	8687.15	-1577.81	1674601.80	14324569.45	39°26'47.801"N	80°52'44.067"W	8829.27	349.706	2.13	0.03	2.13	
15636.00	89.820	345.560	6509.48	8808.94	8778.18	-1601.25	1674578.37	14324660.44	39°26'48.701"N	80°52'44.364"W	8923.03	349.662	0.04	0.00	0.00	
15730.00	89.750	345.980	6509.83	8902.54	8869.29	-1624.36	1674555.27	14324751.52	39°26'49.601"N	80°52'44.657"W	9016.81	349.622	0.45	-0.07	0.45	
15825.00	89.780	342.660	6510.22	8997.31	8960.74	-1650.03	1674529.61	14324842.94	39°26'50.506"N	80°52'44.983"W	9111.40	349.566	3.49	0.03	-3.49	
15836.00	89.750	341.740	6510.27	9008.31	8971.22	-1653.39	1674526.25	14324853.40	39°26'50.609"N	80°52'45.025"W	9122.31	349.558	8.37	-0.27	-8.36	
15861.00	89.750	341.740	6510.38	9033.30	8994.96	-1661.23	1674518.42	14324877.14	39°26'50.844"N	80°52'45.125"W	9147.07	349.536	0.00	0.00	0.00	Projected MD at TD: 15861'



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Seckman Unit 2H ST01
Field	Tyler	Wellbore	Seckman Unit 2H ST01 AWB
Facility	Edna Monroe Pad	Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Seckman Unit 2H POE Rev-3	6507.00	607.79	1233.74	1677412.23	14316493.33	39°25'27.910"N	80°52'08.378"W	point	
Seckman Unit 2H BHL Rev-2	6533.00	9014.95	-1686.38	1674493.28	14324897.12	39°26'51.042"N	80°52'45.445"W	point	
Seckman Unit 2H LP Rev-2	6533.00	761.06	1208.05	1677386.55	14316646.54	39°25'29.425"N	80°52'08.702"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Seckman Unit 2H ST01 AWB Ref Wellpath: Seckman Unit 2H ST01 AWP Proj: 15861'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
25.00	814.00	Gyrodata standard - Continuous gyro	01 Gyrodata Cont. Gyro <17-1/2"> (100'-802')	Seckman Unit 2H AWB	
814.00	4903.00	ISCWSA MWD, Rev. 4 (Standard)	02 Directional ONE MWD <8-3/4"> (802')(864'-5933')	Seckman Unit 2H AWB	
4903.00	15836.00	BHI AutoTrak Curve (Short)	BHI AT Curve <8-1/2"> (4903')(4936'-15836')	Seckman Unit 2H ST01 AWB	
15836.00	15861.00	Blind Drilling (std)	Projection to bit	Seckman Unit 2H ST01 AWB	



Actual Wellpath Report

Seckman Unit 2H ST01 AWP Proj: 15861'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Seckman Unit 2H ST01
Field	Tyler	Wellbore	Seckman Unit 2H ST01 AWB
Facility	Edna Monroe Pad	Sidetrack from	Seckman Unit 2H AWP Proj: 6030' at 4903.00 MD

COMMENTS
<p>Wellpath general comments API: 47-095-02285-0000 BHI Job #: 8311312 Rig: Patterson 343 Duration: 12/15/2016-12/20/2016 Gyrodata Cont. Gyro <17-1/2"> (112'-814') Directional ONE MWD <8-3/4">(802')(876'-5945') BHI AT Curve <8-1/2"> (4903')(4936'-15836') Top of Cement: 4917' MD Top of Fish: 5667' MD Middlesex: 6605' MD Burket: 6771' MD Tully: 6829' MD Marcellus POE: 6929' MD Projected MD at TD: 15861'</p>