

ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Field: Tyler
 Facility: Alta Pad

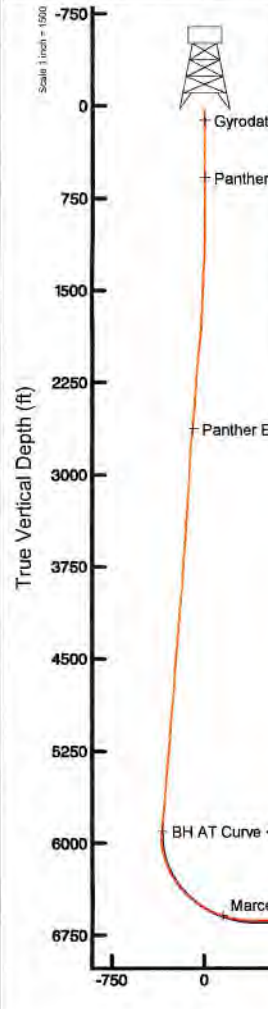
Slot: Slot #05
 Well: Lindsey Unit 2H
 Wellbore: Lindsey Unit 2H PWB

Plot reference wellpath is Lindsey Unit 2H PWB Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 857 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #05): -827 feet	Created by: delaset on 2019-03-21
Coordinates are in feet referenced to Slot	Database: WA_MPL_EasternUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Alta Pad	1711946.826	14305610.532	39°23'39.580"N	80°44'48.520"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #05	-38.42	10.31	1711957.135	14305572.128	39°23'39.200"N 80°44'48.390"W
H&P 519 (RKB) to Ground level (At Slot: Slot #05)	30ft				
Mean Sea Level to Ground level (At Slot: Slot #05)	-827ft				
H&P 519 (RKB) to Mean Sea Level	857ft				

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #05	Lindsey Unit 2H	Lindsey Unit 2H AWE	Lindsey Unit 2H AWP Proj: 17454'
Slot #05	Lindsey Unit 2H	Lindsey Unit 2H PWB	Lindsey Unit 2H PWB Rev-A.0

Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	6186.00	20.380	236.660	5872.59	-829.11	-1461.10	-338.46
Proj. To Bottom	6228.00	20.100	251.300	5930.80	-838.47	-1480.22	-341.47
End of 3D Arc	7126.06	70.265	343.823	6594.83	-425.61	-1785.91	145.50
POE	7147.51	70.688	342.045	6602.00	-405.29	-1791.85	165.71
Landing Pt.	7387.12	90.000	342.045	6642.00	-182.64	-1854.32	400.80
BH-L	17432.12	90.000	342.045	6642.00	9373.16	-4960.88	10445.80



Gyrodata MS Gyro <17-1/2">(100'-475') : 0.11" Inc, 115.00ft MD, 115.00ft TVD, -0.06ft VS

Panther EM <12-1/4">(475')(567'-2575') : 0.12" Inc, 582.00ft MD, 582.00ft TVD, 0.88ft VS

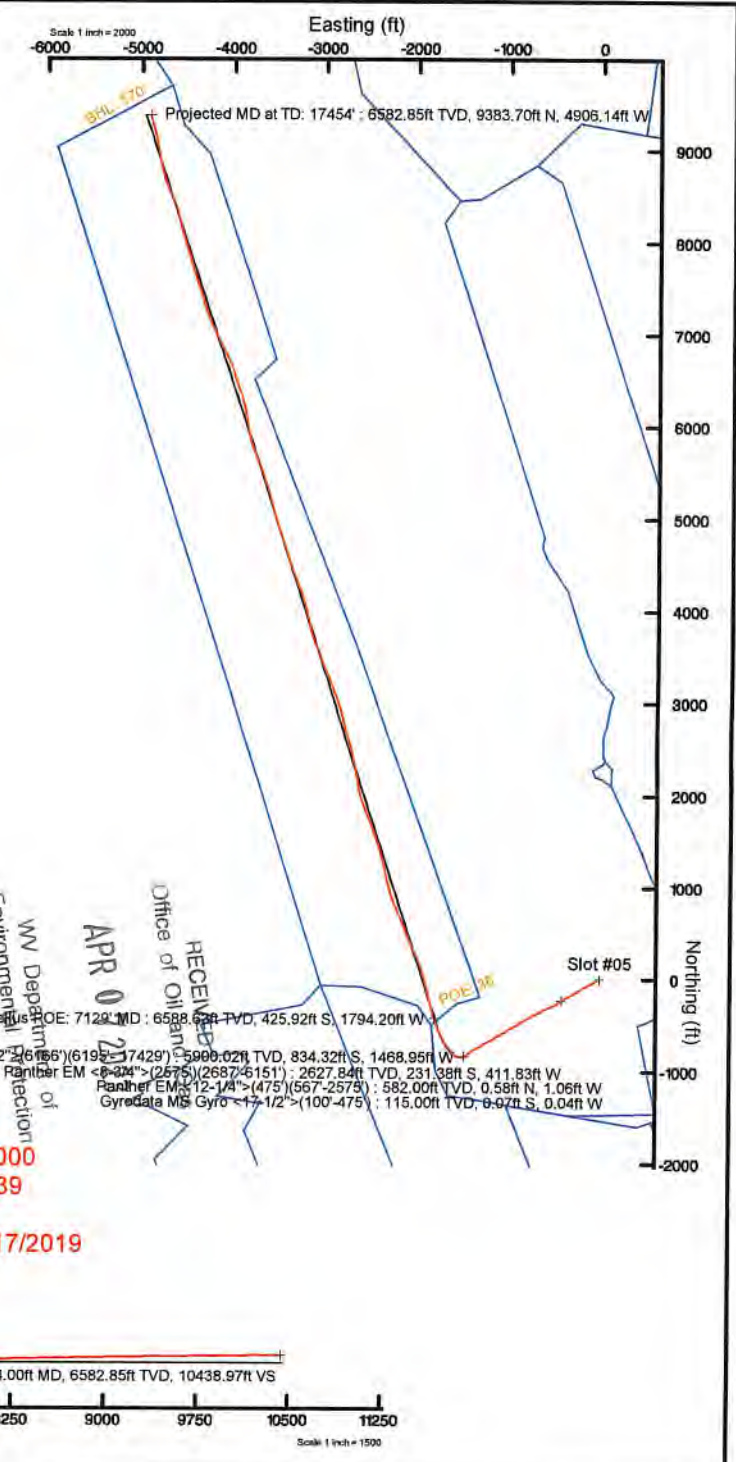
Panther EM <8-3/4">(2575')(2687'-6151') : 15.30" Inc, 2702.00ft MD, 2627.84ft TVD, -93.20ft VS

BH AT Curve <8-1/2">(6166')(6195'-17429') : 17.55" Inc, 6195.00ft MD, 5900.02ft TVD, -341.00ft VS

Marcellus POE: 7129' MD : 71.60" Inc, 7129.00ft MD, 6588.63ft TVD, 147.76ft VS

Projected MD at TD: 17454' : 90.43" Inc, 17454.00ft MD, 6582.85ft TVD, 10438.97ft VS

User specified (HDGM) Dip: 66.54° Field: 52042 nT
 Magnetic North is 7.70 degrees West of True North (at 3/8/2019)
 Grid North is 0.16 degrees East of True North
 To correct azimuth from True to Grid subtract 0.16 degrees
 To correct azimuth from Magnetic to Grid subtract 7.86 degrees



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 Marcellus POE: 7129' MD : 6588.63ft TVD, 425.92ft S, 1794.20ft W
 BH AT Curve <8-1/2">(6166')(6195'-17429') : 17.55" Inc, 6195.00ft MD, 5900.02ft TVD, 834.32ft S, 1468.95ft W
 Panther EM <8-3/4">(2575')(2687'-6151') : 2627.84ft TVD, 231.38ft S, 411.83ft W
 Panther EM <12-1/4">(475')(567'-2575') : 582.00ft TVD, 0.58ft N, 1.06ft W
 Gyrodata MS Gyro <17-1/2">(100'-475') : 115.00ft TVD, 0.07ft S, 0.04ft W

API: 47-095-02548-0000
 BHI Job #: 109706539
 Rig: H&P 519
 Duration: 03/15/2019-03/17/2019

Vertical Section (ft)
 Azimuth 342.05° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



Actual Wellpath Report

Lindsey Unit 2H AWP Proj: 17454'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Lindsey Unit 2H
Field	Tyler	Wellbore	Lindsey Unit 2H AWB
Facility	Alta Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999606	Report Generated	3/21/2019 at 1:19:52 PM
Convergence at slot	0.16° East	Database/Source file	WA_MPL_EasternUS_Defn/Lindsey_Unit_2H_AWP_Proj_17454_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-38.42	10.31	1711957.14	14305572.13	39°23'39.200"N	80°44'48.390"W
Facility Reference Pt			1711946.83	14305610.53	39°23'39.580"N	80°44'48.520"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	30.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	857.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #05)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	342.05°

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Lindsey Unit 2H AWP Proj: 17454'

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Area	Tyler County, WV	Well	Lindsey Unit 2H
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Facility	Alta Pad		

WELLPATH DATA (207 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
0.00†	0.000	208.180	0.00	0.00	0.00	0.00	1711957.14	14305572.13	39°23'39.200"N	80°44'48.390"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	208.180	30.00	0.00	0.00	0.00	1711957.14	14305572.13	39°23'39.200"N	80°44'48.390"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.110	208.180	115.00	-0.06	-0.07	-0.04	1711957.10	14305572.06	39°23'39.199"N	80°44'48.390"W	0.08	208.180	0.13	0.13	-178.61	Gyrodata MS Gyro <17-1/2">(100'-475')
215.00	0.190	300.080	215.00	0.00	-0.07	-0.23	1711956.91	14305572.06	39°23'39.199"N	80°44'48.393"W	0.24	252.099	0.22	0.08	91.90	
315.00	0.180	241.360	315.00	0.09	-0.07	-0.51	1711956.63	14305572.06	39°23'39.199"N	80°44'48.396"W	0.51	262.649	0.18	-0.01	-58.72	
415.00	0.210	319.880	415.00	0.23	0.00	-0.76	1711956.37	14305572.13	39°23'39.200"N	80°44'48.400"W	0.76	269.942	0.25	0.03	78.52	
490.00	0.290	334.780	490.00	0.55	0.28	-0.93	1711956.20	14305572.40	39°23'39.203"N	80°44'48.402"W	0.97	286.464	0.14	0.11	19.87	
582.00	0.120	346.270	582.00	0.88	0.58	-1.06	1711956.08	14305572.71	39°23'39.206"N	80°44'48.403"W	1.21	298.785	0.19	-0.18	12.49	Panther EM <12-1/4">(475')(567'-2575')
670.00	0.380	294.080	670.00	1.16	0.79	-1.34	1711955.79	14305572.92	39°23'39.208"N	80°44'48.407"W	1.56	300.402	0.36	0.30	-59.31	
759.00	0.510	301.210	759.99	1.66	1.11	-1.95	1711955.18	14305573.24	39°23'39.211"N	80°44'48.415"W	2.25	299.716	0.16	0.15	8.01	
849.00	0.860	258.410	848.99	2.04	1.19	-2.96	1711954.18	14305573.31	39°23'39.212"N	80°44'48.428"W	3.19	291.862	0.66	0.39	-47.56	
939.00	2.100	242.490	938.96	1.84	0.29	-5.08	1711952.06	14305572.42	39°23'39.203"N	80°44'48.455"W	5.09	273.255	1.44	1.38	-17.69	
1033.00	4.400	245.030	1032.80	1.11	-2.03	-9.88	1711947.26	14305570.10	39°23'39.180"N	80°44'48.516"W	10.08	258.393	2.45	2.45	2.70	
1127.00	6.380	245.450	1126.38	0.07	-5.72	-17.90	1711939.24	14305566.41	39°23'39.144"N	80°44'48.618"W	18.79	252.272	2.11	2.11	0.45	
1222.00	8.020	244.450	1220.63	-1.41	-10.77	-28.68	1711928.47	14305561.36	39°23'39.094"N	80°44'48.756"W	30.64	249.412	1.73	1.73	-1.05	
1316.00	9.130	243.690	1313.57	-3.36	-16.91	-41.28	1711915.87	14305555.23	39°23'39.034"N	80°44'48.916"W	44.61	247.728	1.19	1.18	-0.81	
1410.00	10.520	241.650	1406.19	-6.00	-24.29	-55.52	1711901.64	14305547.85	39°23'38.961"N	80°44'49.098"W	60.60	246.372	1.52	1.48	-2.17	
1504.00	12.180	241.090	1498.35	-9.43	-33.16	-71.75	1711885.41	14305538.98	39°23'38.874"N	80°44'49.305"W	79.04	245.198	1.77	1.77	-0.60	
1599.00	14.470	242.250	1590.79	-13.36	-43.53	-91.03	1711866.14	14305528.62	39°23'38.772"N	80°44'49.551"W	100.90	244.444	2.43	2.41	1.22	
1693.00	16.650	243.010	1681.34	-17.47	-55.11	-113.43	1711843.75	14305517.04	39°23'38.658"N	80°44'49.837"W	126.11	244.086	2.33	2.32	0.81	
1787.00	18.410	240.900	1770.97	-22.46	-68.44	-138.40	1711818.79	14305503.71	39°23'38.527"N	80°44'50.155"W	154.40	243.686	1.99	1.87	-2.24	
1881.00	22.030	238.420	1859.16	-29.49	-84.90	-166.40	1711790.80	14305487.26	39°23'38.366"N	80°44'50.513"W	186.80	242.968	3.96	3.85	-2.64	
1975.00	23.080	238.720	1945.97	-37.89	-103.70	-197.16	1711760.05	14305468.47	39°23'38.181"N	80°44'50.905"W	222.77	242.258	1.12	1.12	0.32	
2069.00	23.530	237.760	2032.30	-46.77	-123.28	-228.78	1711728.44	14305448.90	39°23'37.988"N	80°44'51.308"W	259.88	241.683	0.63	0.48	-1.02	
2163.00	21.800	239.250	2119.04	-55.27	-142.21	-259.65	1711697.58	14305429.97	39°23'37.802"N	80°44'51.702"W	296.05	241.291	1.94	-1.84	1.59	
2257.00	21.990	242.730	2206.27	-61.98	-159.20	-290.30	1711666.95	14305412.99	39°23'37.635"N	80°44'52.093"W	331.09	241.260	1.40	0.20	3.70	
2352.00	20.950	243.070	2294.67	-67.52	-175.04	-321.25	1711636.01	14305397.16	39°23'37.479"N	80°44'52.488"W	365.84	241.415	1.10	-1.09	0.36	
2446.00	18.450	240.570	2383.16	-73.10	-189.96	-349.19	1711608.08	14305382.24	39°23'37.332"N	80°44'52.845"W	397.52	241.454	2.81	-2.66	-2.66	
2541.00	18.050	237.720	2473.39	-79.73	-205.21	-374.73	1711582.55	14305367.00	39°23'37.182"N	80°44'53.170"W	427.24	241.294	1.03	-0.42	-3.00	
2590.00	16.640	235.470	2520.16	-83.62	-213.24	-386.93	1711570.36	14305358.97	39°23'37.103"N	80°44'53.326"W	441.80	241.140	3.19	-2.88	-4.59	



Actual Wellpath Report

Lindsey Unit 2H AWP Proj: 17454'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Tyler County, WV		Well	Lindsey Unit 2H
Field	Tyler		Wellbore	Lindsey Unit 2H AWB
Facility	Alta Pad			

WELLPATH DATA (207 stations)																
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
2702.00	15.300	232.260	2627.84	-93.20	-231.38	-411.83	1711545.47	14305340.84	39°23'36.925"N	80°44'53.644"W	472.37	240.671	1.43	-1.20	-2.87	Panther EM <8-3/4">(2575')(2687'-6151')
2796.00	16.980	234.510	2718.13	-101.53	-246.94	-432.81	1711524.49	14305325.29	39°23'36.771"N	80°44'53.912"W	498.30	240.293	1.91	1.79	2.39	
2890.00	21.370	238.560	2806.90	-109.67	-263.85	-458.61	1711498.70	14305308.38	39°23'36.605"N	80°44'54.241"W	529.10	240.087	4.88	4.67	4.31	
2985.00	23.970	247.960	2894.58	-115.08	-280.13	-491.28	1711466.05	14305292.11	39°23'36.445"N	80°44'54.658"W	565.54	240.309	4.69	2.74	9.89	
3079.00	21.690	245.320	2981.21	-118.48	-294.55	-524.77	1711432.57	14305277.70	39°23'36.303"N	80°44'55.085"W	601.78	240.695	2.66	-2.43	-2.81	
3173.00	21.480	245.200	3068.62	-122.57	-309.02	-556.18	1711401.18	14305263.23	39°23'36.161"N	80°44'55.485"W	636.26	240.943	0.23	-0.22	-0.13	
3272.00	23.270	240.490	3160.17	-128.65	-326.26	-589.66	1711367.71	14305246.00	39°23'35.992"N	80°44'55.912"W	673.90	241.044	2.56	1.81	-4.76	
3366.00	22.570	244.450	3246.75	-134.76	-343.19	-622.09	1711335.29	14305229.08	39°23'35.825"N	80°44'56.326"W	710.48	241.116	1.80	-0.74	4.21	
3460.00	20.910	241.020	3334.07	-140.36	-359.09	-653.05	1711304.35	14305213.18	39°23'35.669"N	80°44'56.721"W	745.26	241.195	2.22	-1.77	-3.65	
3555.00	21.510	244.640	3422.63	-145.85	-374.77	-683.62	1711273.79	14305197.51	39°23'35.515"N	80°44'57.111"W	779.60	241.268	1.52	0.63	3.81	
3649.00	20.120	241.970	3510.50	-150.90	-389.75	-713.46	1711243.96	14305182.53	39°23'35.368"N	80°44'57.491"W	812.98	241.353	1.79	-1.48	-2.84	
3744.00	17.950	237.060	3600.31	-157.55	-405.39	-740.18	1711217.25	14305166.90	39°23'35.214"N	80°44'57.832"W	843.92	241.291	2.84	-2.28	-5.17	
3838.00	18.610	243.700	3689.57	-163.47	-419.91	-765.78	1711191.66	14305152.38	39°23'35.071"N	80°44'58.159"W	873.35	241.262	2.32	0.70	7.06	
3932.00	18.460	243.190	3778.70	-167.94	-433.27	-792.51	1711164.94	14305139.03	39°23'34.940"N	80°44'58.500"W	903.21	241.334	0.23	-0.16	-0.54	
4026.00	19.170	242.030	3867.67	-172.92	-447.22	-819.42	1711138.04	14305125.08	39°23'34.802"N	80°44'58.843"W	933.52	241.375	0.85	0.76	-1.23	
4121.00	22.460	238.300	3956.46	-179.95	-464.08	-848.65	1711108.82	14305108.23	39°23'34.637"N	80°44'59.216"W	967.25	241.328	3.73	3.46	-3.93	
4215.00	20.490	232.760	4043.94	-189.65	-483.47	-877.03	1711080.45	14305088.85	39°23'34.446"N	80°44'59.578"W	1001.46	241.134	3.01	-2.10	-5.89	
4309.00	19.240	239.660	4132.36	-198.41	-501.26	-903.50	1711054.00	14305071.07	39°23'34.271"N	80°44'59.916"W	1033.23	240.979	2.82	-1.33	7.34	
4404.00	20.970	245.430	4221.58	-203.73	-516.23	-932.47	1711025.03	14305056.10	39°23'34.123"N	80°45'00.285"W	1065.83	241.030	2.77	1.82	6.07	
4498.00	19.190	239.500	4309.87	-209.03	-531.07	-961.09	1710996.43	14305041.27	39°23'33.978"N	80°45'00.650"W	1098.05	241.076	2.87	-1.89	-6.31	
4592.00	19.620	236.670	4398.53	-216.57	-547.58	-987.58	1710969.94	14305024.76	39°23'33.815"N	80°45'00.989"W	1129.23	240.993	1.10	0.46	-3.01	
4687.00	19.330	236.880	4488.09	-224.92	-564.94	-1014.08	1710943.46	14305007.41	39°23'33.644"N	80°45'01.327"W	1160.82	240.878	0.31	-0.31	0.22	
4781.00	18.950	238.220	4576.90	-232.64	-581.48	-1040.08	1710917.46	14304990.88	39°23'33.482"N	80°45'01.658"W	1191.59	240.792	0.62	-0.40	1.43	
4876.00	20.630	243.700	4666.29	-238.75	-597.02	-1068.20	1710889.36	14304975.34	39°23'33.329"N	80°45'02.017"W	1223.72	240.799	2.63	1.77	5.77	
4971.00	22.850	242.840	4754.53	-244.14	-612.88	-1099.62	1710857.95	14304959.51	39°23'33.173"N	80°45'02.418"W	1258.87	240.868	2.36	2.34	-0.91	
5065.00	21.280	235.430	4841.66	-251.94	-630.87	-1129.91	1710827.67	14304941.51	39°23'32.996"N	80°45'02.804"W	1294.10	240.824	3.40	-1.67	-7.88	
5159.00	20.910	237.420	4929.36	-261.06	-649.58	-1158.10	1710799.50	14304922.80	39°23'32.812"N	80°45'03.164"W	1327.83	240.712	0.86	-0.39	2.12	
5254.00	20.300	242.650	5018.29	-268.03	-666.28	-1187.02	1710770.59	14304906.11	39°23'32.647"N	80°45'03.533"W	1361.23	240.694	2.04	-0.64	5.51	
5348.00	21.230	244.090	5106.19	-273.05	-681.21	-1216.81	1710740.80	14304891.19	39°23'32.501"N	80°45'03.913"W	1394.52	240.758	1.13	0.99	1.53	
5442.00	19.980	237.720	5194.18	-279.38	-697.23	-1245.70	1710711.93	14304875.18	39°23'32.343"N	80°45'04.282"W	1427.55	240.764	2.73	-1.33	-6.78	

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Actual Wellpath Report

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Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Tyler County, WV		Well	Lindsey Unit 2H
Field	Tyler		Wellbore	Lindsey Unit 2H AWB
Facility	Alta Pad			

WELLPATH DATA (207 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
5536.00	21.290	241.390	5282.15	-286.51	-713.98	-1274.27	1710683.37	14304858.43	39°23'32.178"N	80°45'04.646"W	1460.66	240.738	1.96	1.39	3.90	
5631.00	22.250	236.270	5370.38	-294.60	-732.23	-1304.37	1710653.28	14304840.19	39°23'31.999"N	80°45'05.030"W	1495.84	240.692	2.24	1.01	-5.39	
5726.00	20.070	237.780	5458.97	-303.51	-750.91	-1333.12	1710624.54	14304821.52	39°23'31.815"N	80°45'05.397"W	1530.06	240.609	2.37	-2.29	1.59	
5820.00	19.740	241.630	5547.36	-310.35	-767.05	-1360.73	1710596.94	14304805.38	39°23'31.656"N	80°45'05.749"W	1562.04	240.590	1.44	-0.35	4.10	
5915.00	19.920	238.250	5636.73	-317.12	-783.19	-1388.61	1710569.07	14304789.25	39°23'31.497"N	80°45'06.105"W	1594.25	240.577	1.22	0.19	-3.56	
6009.00	19.380	235.440	5725.26	-325.39	-800.46	-1415.07	1710542.62	14304771.98	39°23'31.327"N	80°45'06.442"W	1625.79	240.505	1.16	-0.57	-2.99	
6103.00	20.650	240.170	5813.59	-333.27	-817.56	-1442.30	1710515.41	14304754.89	39°23'31.159"N	80°45'06.790"W	1657.90	240.454	2.19	1.35	5.03	
6166.00	20.380	236.660	5872.59	-338.46	-829.11	-1461.10	1710496.61	14304743.34	39°23'31.046"N	80°45'07.030"W	1679.96	240.427	2.00	-0.43	-5.57	
6195.00	17.550	236.170	5900.02	-341.00	-834.32	-1468.95	1710488.76	14304738.14	39°23'30.994"N	80°45'07.130"W	1689.36	240.405	9.77	-8.76	-1.69	BH AT Curve <8-1/2">(6166')(6195'- 17429')
6223.00	16.560	239.340	5926.79	-343.03	-838.71	-1475.89	1710481.83	14304733.75	39°23'30.951"N	80°45'07.218"W	1697.56	240.392	4.85	-3.54	11.32	
6268.00	15.230	253.300	5970.08	-344.32	-843.68	-1487.08	1710470.65	14304728.78	39°23'30.902"N	80°45'07.361"W	1709.73	240.432	8.97	-2.96	31.02	
6315.00	17.070	270.570	6015.25	-341.99	-845.39	-1499.90	1710457.83	14304727.08	39°23'30.886"N	80°45'07.524"W	1721.73	240.593	10.90	3.91	36.74	
6364.00	19.770	281.310	6061.75	-335.65	-843.69	-1515.22	1710442.51	14304728.77	39°23'30.903"N	80°45'07.720"W	1734.27	240.891	8.83	5.51	21.92	
6411.00	22.670	293.500	6105.58	-325.76	-838.51	-1531.33	1710426.41	14304733.95	39°23'30.955"N	80°45'07.925"W	1745.88	241.296	11.20	6.17	25.94	
6459.00	25.040	301.200	6149.48	-311.95	-829.56	-1548.51	1710409.24	14304742.90	39°23'31.043"N	80°45'08.143"W	1756.72	241.821	8.14	4.94	16.04	
6506.00	28.060	307.580	6191.53	-295.31	-817.66	-1565.79	1710391.97	14304754.79	39°23'31.162"N	80°45'08.363"W	1766.43	242.426	8.83	6.43	13.57	
6553.00	30.210	312.470	6232.59	-275.90	-802.93	-1583.27	1710374.49	14304769.52	39°23'31.308"N	80°45'08.585"W	1775.23	243.109	6.82	4.57	10.40	
6600.00	33.530	315.860	6272.50	-253.97	-785.63	-1601.04	1710356.73	14304786.81	39°23'31.479"N	80°45'08.811"W	1783.41	243.863	8.02	7.06	7.21	
6647.00	36.400	319.040	6311.02	-229.47	-765.77	-1619.23	1710338.55	14304806.66	39°23'31.676"N	80°45'09.042"W	1791.18	244.689	7.23	6.11	6.77	
6694.00	40.030	322.350	6347.94	-202.40	-743.26	-1637.61	1710320.17	14304829.16	39°23'31.899"N	80°45'09.275"W	1798.39	245.588	8.87	7.72	7.04	
6722.00†	41.943	323.817	6369.08	-185.03	-728.58	-1648.64	1710309.15	14304843.84	39°23'32.044"N	80°45'09.415"W	1802.45	246.158	7.65	6.83	5.24	Middlesex: 6722' MD
6742.00	43.320	324.800	6383.79	-172.13	-717.58	-1656.54	1710301.25	14304854.83	39°23'32.153"N	80°45'09.515"W	1805.28	246.579	7.65	6.89	4.91	
6789.00	47.340	327.670	6416.83	-139.97	-689.79	-1675.08	1710282.71	14304882.61	39°23'32.428"N	80°45'09.750"W	1811.55	247.618	9.59	8.55	6.11	
6836.00	50.620	329.990	6447.68	-105.46	-659.45	-1693.42	1710264.39	14304912.94	39°23'32.729"N	80°45'09.983"W	1817.29	248.723	7.91	6.98	4.94	
6883.00	53.420	331.720	6476.60	-69.12	-627.09	-1711.45	1710246.37	14304945.29	39°23'33.049"N	80°45'10.211"W	1822.72	249.877	6.63	5.96	3.68	
6926.00†	56.748	334.043	6501.21	-34.32	-595.71	-1727.50	1710230.32	14304976.66	39°23'33.360"N	80°45'10.415"W	1827.33	250.974	8.92	7.74	5.40	Burkett: 6926' MD
6930.00	57.060	334.250	6503.39	-31.00	-592.69	-1728.97	1710228.86	14304979.67	39°23'33.389"N	80°45'10.433"W	1827.73	251.078	8.92	7.79	5.17	
6977.00	60.730	336.780	6527.67	8.97	-556.07	-1745.62	1710212.20	14305016.28	39°23'33.752"N	80°45'10.644"W	1832.05	252.331	9.07	7.81	5.38	
6987.00†	61.470	337.099	6532.51	17.69	-548.02	-1749.05	1710208.78	14305024.33	39°23'33.832"N	80°45'10.688"W	1832.90	252.603	7.91	7.40	3.19	Tully: 6987' MD
7025.00	64.290	338.270	6549.83	51.41	-516.73	-1761.89	1710195.94	14305055.60	39°23'34.141"N	80°45'10.850"W	1836.10	253.655	7.91	7.42	3.08	

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Actual Wellpath Report

Lindsey Unit 2H AWP Proj: 17454'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Lindsey Unit 2H
Field	Tyler	Wellbore	Lindsey Unit 2H AWP
Facility	Alta Pad		

WELLPATH DATA (207 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	
7072.00	67.740	340.190	6568.93	94.29	-476.58	-1777.10	1710180.73	14305095.73	39°23'34.538"N	80°45'11.042"W	1839.90	254.988	8.23	7.34	4.09		
7086.00†	68.748	340.765	6574.12	107.29	-464.33	-1781.45	1710176.39	14305107.98	39°23'34.660"N	80°45'11.097"W	1840.97	255.391	8.15	7.20	4.11	Hamilton: 7086' MD	
7119.00	71.130	342.090	6585.44	138.28	-434.95	-1791.32	1710166.53	14305137.35	39°23'34.950"N	80°45'11.222"W	1843.37	256.352	8.15	7.22	4.02		
7129.00†	71.603	342.513	6588.63	147.76	-425.92	-1794.20	1710163.65	14305146.38	39°23'35.040"N	80°45'11.258"W	1844.06	256.646	6.20	4.73	4.23	Marcellus POE: 7129' MD	
7166.00	73.360	344.060	6599.77	183.03	-392.13	-1804.34	1710153.51	14305180.15	39°23'35.374"N	80°45'11.386"W	1846.46	257.739	6.20	4.75	4.18		
7214.00	77.460	345.170	6611.86	229.43	-347.35	-1816.66	1710141.19	14305224.92	39°23'35.817"N	80°45'11.542"W	1849.57	259.176	8.83	8.54	2.31		
7261.00	82.380	344.860	6620.08	275.63	-302.66	-1828.62	1710129.24	14305269.58	39°23'36.259"N	80°45'11.692"W	1853.50	260.602	10.49	10.47	-0.66		
7308.00	86.180	345.450	6624.77	322.31	-257.47	-1840.60	1710117.26	14305314.76	39°23'36.706"N	80°45'11.843"W	1858.52	262.037	8.18	8.09	1.26		
7355.00	88.980	345.830	6626.75	369.18	-211.98	-1852.25	1710105.62	14305360.23	39°23'37.156"N	80°45'11.990"W	1864.34	263.471	6.01	5.96	0.81		
7403.00	89.940	347.210	6627.21	417.03	-165.31	-1863.43	1710094.44	14305406.89	39°23'37.617"N	80°45'12.131"W	1870.75	264.931	3.50	2.00	2.87		
7497.00	90.030	347.180	6627.23	510.65	-73.64	-1884.27	1710073.61	14305498.51	39°23'38.524"N	80°45'12.393"W	1885.71	267.762	0.10	0.10	-0.03		
7592.00	91.050	344.690	6626.33	605.42	18.49	-1907.35	1710050.54	14305590.62	39°23'39.435"N	80°45'12.684"W	1907.44	270.556	2.83	1.07	-2.62		
7686.00	90.060	338.960	6625.42	699.37	107.76	-1936.66	1710021.24	14305679.85	39°23'40.318"N	80°45'13.054"W	1939.66	273.185	6.19	-1.05	-6.10		
7781.00	89.780	337.800	6625.56	794.17	196.08	-1971.66	1709986.26	14305768.13	39°23'41.192"N	80°45'13.497"W	1981.39	275.679	1.26	-0.29	-1.22		
7875.00	89.850	336.310	6625.86	887.81	282.64	-2008.31	1709949.63	14305854.65	39°23'42.048"N	80°45'13.961"W	2028.10	278.011	1.59	0.07	-1.59		
7970.00	89.970	335.240	6626.01	982.24	369.27	-2047.29	1709910.66	14305941.25	39°23'42.906"N	80°45'14.454"W	2080.32	280.225	1.13	0.13	-1.13		
8064.00	89.970	339.150	6626.06	1075.89	455.91	-2083.71	1709874.25	14306027.85	39°23'43.763"N	80°45'14.915"W	2133.00	282.342	4.16	0.00	4.16		
8159.00	89.940	339.670	6626.13	1170.79	544.84	-2117.12	1709840.85	14306116.75	39°23'44.643"N	80°45'15.338"W	2186.10	284.432	0.55	-0.03	0.55		
8253.00	90.000	336.000	6626.18	1264.52	631.88	-2152.58	1709805.41	14306203.75	39°23'45.504"N	80°45'15.786"W	2243.40	286.359	3.90	0.06	-3.90		
8348.00	89.910	335.380	6626.26	1358.93	718.45	-2191.69	1709766.32	14306290.29	39°23'46.361"N	80°45'16.282"W	2306.44	288.150	0.66	-0.09	-0.65		
8442.00	89.850	338.460	6626.45	1452.54	804.92	-2228.53	1709729.48	14306376.73	39°23'47.216"N	80°45'16.748"W	2369.44	289.859	3.28	-0.06	3.28		
8537.00	89.910	340.810	6626.65	1547.45	893.97	-2261.59	1709696.44	14306465.75	39°23'48.097"N	80°45'17.166"W	2431.87	291.568	2.47	0.06	2.47		
8631.00	89.970	344.180	6626.75	1641.44	983.61	-2289.86	1709668.18	14306555.34	39°23'48.984"N	80°45'17.523"W	2492.18	293.246	3.59	0.06	3.59		
8726.00	89.880	347.300	6626.87	1736.23	1075.67	-2313.26	1709644.79	14306647.37	39°23'49.894"N	80°45'17.818"W	2551.12	294.938	3.29	-0.09	3.28		
8820.00	90.090	346.890	6626.90	1829.86	1167.29	-2334.25	1709623.81	14306738.96	39°23'50.801"N	80°45'18.082"W	2609.85	296.568	0.49	0.22	-0.44		
8915.00	90.180	346.850	6626.68	1924.53	1259.81	-2355.83	1709602.24	14306831.44	39°23'51.716"N	80°45'18.354"W	2671.53	298.136	0.10	0.09	-0.04		
9009.00	89.780	345.070	6626.71	2018.30	1351.00	-2378.64	1709579.44	14306922.59	39°23'52.617"N	80°45'18.641"W	2735.53	299.595	1.94	-0.43	-1.89		
9104.00	90.000	342.220	6626.89	2113.26	1442.14	-2405.38	1709552.70	14307013.70	39°23'53.519"N	80°45'18.979"W	2804.58	300.945	3.01	0.23	-3.00		
9198.00	89.940	341.260	6626.94	2207.25	1531.41	-2434.84	1709523.26	14307102.93	39°23'54.402"N	80°45'19.351"W	2876.39	302.168	1.02	-0.06	-1.02		
9293.00	89.720	339.420	6627.22	2302.21	1620.87	-2466.80	1709491.32	14307192.35	39°23'55.287"N	80°45'19.755"W	2951.66	303.308	1.95	-0.23	-1.94		



Actual Wellpath Report

Lindsey Unit 2H AWP Proj: 17454'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Tyler County, WV		Well	Lindsey Unit 2H
Field	Tyler		Wellbore	Lindsey Unit 2H AWP
Facility	Alta Pad			

WELLPATH DATA (207 stations)																
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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
9387.00	89.690	338.270	6627.71	2396.06	1708.53	-2500.72	1709457.41	14307279.98	39°23'56.154"N	80°45'20.184"W	3028.64	304.341	1.22	-0.03	-1.22	
9482.00	89.940	339.000	6628.01	2490.89	1797.00	-2535.33	1709422.81	14307368.42	39°23'57.030"N	80°45'20.622"W	3107.59	305.328	0.81	0.26	0.77	
9576.00	89.850	337.880	6628.18	2584.70	1884.42	-2569.87	1709388.28	14307455.80	39°23'57.895"N	80°45'21.059"W	3186.73	306.252	1.20	-0.10	-1.19	
9670.00	89.850	341.990	6628.43	2678.61	1972.70	-2602.11	1709356.05	14307544.04	39°23'58.768"N	80°45'21.466"W	3265.35	307.166	4.37	0.00	4.37	
9764.00	89.660	348.920	6628.83	2772.39	2063.63	-2625.71	1709332.47	14307634.94	39°23'59.667"N	80°45'21.764"W	3339.59	308.165	7.38	-0.20	7.37	
9859.00	90.120	352.460	6629.02	2866.30	2157.36	-2641.07	1709317.11	14307728.63	39°24'00.594"N	80°45'21.956"W	3410.20	309.244	3.76	0.48	3.73	
9953.00	89.880	349.370	6629.02	2959.16	2250.17	-2655.91	1709302.27	14307821.41	39°24'01.512"N	80°45'22.142"W	3480.97	310.272	3.30	-0.26	-3.29	
10047.00	89.690	348.870	6629.37	3052.45	2342.48	-2673.66	1709284.54	14307913.68	39°24'02.425"N	80°45'22.365"W	3554.67	311.223	0.57	-0.20	-0.53	
10142.00	90.060	348.940	6629.58	3146.77	2435.70	-2691.94	1709266.26	14308006.87	39°24'03.347"N	80°45'22.595"W	3630.31	312.139	0.40	0.39	0.07	
10237.00	89.420	343.260	6630.01	3241.49	2527.88	-2714.75	1709243.46	14308099.01	39°24'04.258"N	80°45'22.882"W	3709.45	312.959	6.02	-0.67	-5.98	
10331.00	89.380	342.250	6630.99	3335.48	2617.65	-2742.61	1709215.61	14308188.74	39°24'05.146"N	80°45'23.234"W	3791.31	313.665	1.08	-0.04	-1.07	
10426.00	89.690	343.540	6631.76	3430.46	2708.44	-2770.55	1709187.68	14308279.50	39°24'06.044"N	80°45'23.587"W	3874.49	314.351	1.40	0.33	1.36	
10520.00	89.910	345.800	6632.09	3524.36	2799.09	-2795.40	1709162.84	14308370.11	39°24'06.941"N	80°45'23.900"W	3955.91	315.038	2.42	0.23	2.40	
10615.00	89.850	344.300	6632.29	3619.22	2890.87	-2819.91	1709138.34	14308461.86	39°24'07.849"N	80°45'24.209"W	4038.45	315.712	1.58	-0.06	-1.58	
10709.00	89.780	340.910	6632.59	3713.20	2980.56	-2848.01	1709110.26	14308551.51	39°24'08.736"N	80°45'24.564"W	4122.49	316.303	3.61	-0.07	-3.61	
10804.00	89.720	338.710	6633.01	3808.12	3069.72	-2880.79	1709077.48	14308640.63	39°24'09.618"N	80°45'24.979"W	4209.77	316.818	2.32	-0.06	-2.32	
10898.00	89.850	338.650	6633.36	3901.96	3157.28	-2914.97	1709043.32	14308728.16	39°24'10.484"N	80°45'25.411"W	4297.15	317.285	0.15	0.14	-0.06	
10993.00	89.720	338.690	6633.72	3996.80	3245.78	-2949.52	1709008.78	14308816.62	39°24'11.360"N	80°45'25.848"W	4385.74	317.738	0.14	-0.14	0.04	
11087.00	89.200	335.650	6634.60	4090.44	3332.40	-2985.99	1708972.33	14308903.21	39°24'12.217"N	80°45'26.310"W	4474.48	318.138	3.28	-0.55	-3.23	
11182.00	89.230	336.840	6635.91	4184.94	3419.34	-3024.25	1708934.08	14308990.11	39°24'13.077"N	80°45'26.794"W	4564.87	318.509	1.25	0.03	1.25	
11276.00	89.630	338.740	6636.84	4278.67	3506.36	-3059.78	1708898.56	14309077.10	39°24'13.938"N	80°45'27.244"W	4653.69	318.891	2.07	0.43	2.02	
11371.00	89.820	339.310	6637.30	4373.54	3595.06	-3093.79	1708864.57	14309165.76	39°24'14.816"N	80°45'27.674"W	4742.99	319.286	0.63	0.20	0.60	
11465.00	89.380	341.770	6637.95	4467.50	3683.68	-3125.10	1708833.27	14309254.35	39°24'15.692"N	80°45'28.070"W	4830.71	319.690	2.66	-0.47	2.62	
11560.00	89.350	344.330	6639.01	4562.47	3774.54	-3152.79	1708805.59	14309345.17	39°24'16.591"N	80°45'28.420"W	4918.06	320.129	2.69	-0.03	2.69	
11654.00	90.550	348.990	6639.09	4656.14	3865.98	-3174.48	1708783.92	14309436.57	39°24'17.495"N	80°45'28.693"W	5002.31	320.610	5.12	1.28	4.96	
11749.00	89.540	346.500	6639.01	4750.66	3958.80	-3194.64	1708763.76	14309529.36	39°24'18.413"N	80°45'28.946"W	5087.03	321.097	2.83	-1.06	-2.62	
11844.00	89.410	344.200	6639.88	4845.49	4050.71	-3218.66	1708739.75	14309621.23	39°24'19.322"N	80°45'29.249"W	5173.78	321.530	2.42	-0.14	-2.42	
11938.00	89.450	342.260	6640.82	4939.46	4140.70	-3245.78	1708712.64	14309711.19	39°24'20.213"N	80°45'29.592"W	5261.23	321.908	2.06	0.04	-2.06	
12032.00	89.450	339.260	6641.72	5033.42	4229.44	-3276.75	1708681.68	14309799.89	39°24'21.090"N	80°45'29.983"W	5350.26	322.233	3.19	0.00	-3.19	
12127.00	89.010	337.010	6643.00	5128.19	4317.59	-3312.13	1708646.32	14309888.01	39°24'21.963"N	80°45'30.431"W	5441.67	322.507	2.41	-0.46	-2.37	

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Lindsey Unit 2H AWP Proj: 17454'

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Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Tyler County, WV		Well	Lindsey Unit 2H
Field	Tyler		Wellbore	Lindsey Unit 2H AWB
Facility	Alta Pad			

WELLPATH DATA (207 stations)																
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
12221.00	89.450	341.110	6644.26	5222.03	4405.35	-3345.71	1708612.75	14309975.74	39°24'22.831"N	80°45'30.856"W	5531.81	322.785	4.39	0.47	4.36	
12316.00	89.720	340.710	6644.95	5317.01	4495.13	-3376.78	1708581.69	14310065.47	39°24'23.719"N	80°45'31.248"W	5622.17	323.086	0.51	0.28	-0.42	
12410.00	89.350	343.210	6645.71	5411.00	4584.49	-3405.89	1708552.60	14310154.81	39°24'24.603"N	80°45'31.616"W	5711.19	323.391	2.69	-0.39	2.66	
12505.00	88.890	341.590	6647.17	5505.98	4675.03	-3434.61	1708523.89	14310245.31	39°24'25.499"N	80°45'31.979"W	5801.07	323.696	1.77	-0.48	-1.71	
12599.00	88.890	340.390	6648.99	5599.95	4763.89	-3465.22	1708493.29	14310334.13	39°24'26.378"N	80°45'32.366"W	5890.87	323.968	1.28	0.00	-1.28	
12694.00	89.290	342.600	6650.50	5694.92	4853.96	-3495.37	1708463.15	14310424.16	39°24'27.269"N	80°45'32.747"W	5981.51	324.242	2.36	0.42	2.33	
12788.00	89.750	341.870	6651.29	5788.92	4943.47	-3524.05	1708434.49	14310513.64	39°24'28.154"N	80°45'33.109"W	6070.98	324.516	0.92	0.49	-0.78	
12883.00	89.660	343.690	6651.78	5883.91	5034.21	-3552.17	1708406.37	14310604.34	39°24'29.052"N	80°45'33.464"W	6161.26	324.793	1.92	-0.09	1.92	
12977.00	89.630	342.740	6652.36	5977.88	5124.20	-3579.31	1708379.24	14310694.30	39°24'29.942"N	80°45'33.807"W	6250.51	325.065	1.01	-0.03	-1.01	
13072.00	89.940	345.320	6652.72	6072.82	5215.53	-3605.45	1708353.12	14310785.59	39°24'30.845"N	80°45'34.137"W	6340.42	325.344	2.74	0.33	2.72	
13166.00	89.940	343.070	6652.82	6166.75	5305.97	-3631.05	1708327.52	14310875.99	39°24'31.740"N	80°45'34.460"W	6429.45	325.615	2.39	0.00	-2.39	
13261.00	90.030	341.330	6652.84	6261.74	5396.42	-3660.09	1708298.50	14310966.41	39°24'32.634"N	80°45'34.827"W	6520.55	325.853	1.83	0.09	-1.83	
13355.00	91.200	338.950	6651.83	6355.68	5484.81	-3692.02	1708266.58	14311054.77	39°24'33.509"N	80°45'35.231"W	6611.67	326.054	2.82	1.24	-2.53	
13450.00	89.910	337.200	6650.91	6450.44	5572.93	-3727.49	1708231.13	14311142.85	39°24'34.381"N	80°45'35.680"W	6704.61	326.223	2.29	-1.36	-1.84	
13545.00	89.570	337.600	6651.34	6545.12	5660.64	-3763.99	1708194.63	14311230.52	39°24'35.249"N	80°45'36.142"W	6797.83	326.378	0.55	-0.36	0.42	
13639.00	90.490	341.770	6651.29	6639.02	5748.77	-3796.62	1708162.02	14311318.62	39°24'36.120"N	80°45'36.555"W	6889.32	326.558	4.54	0.98	4.44	
13733.00	90.520	345.340	6650.46	6732.97	5838.91	-3823.23	1708135.42	14311408.72	39°24'37.012"N	80°45'36.891"W	6979.25	326.784	3.80	0.03	3.80	
13828.00	91.320	350.660	6648.94	6827.41	5931.78	-3842.97	1708115.69	14311501.56	39°24'37.930"N	80°45'37.139"W	7067.85	327.062	5.66	0.84	5.60	
13922.00	90.680	350.740	6647.30	6920.33	6024.53	-3858.16	1708100.51	14311594.27	39°24'38.848"N	80°45'37.329"W	7154.05	327.364	0.69	-0.68	0.09	
14017.00	91.020	350.180	6645.89	7014.30	6118.21	-3873.90	1708084.77	14311687.91	39°24'39.774"N	80°45'37.527"W	7241.52	327.659	0.69	-0.36	-0.59	
14112.00	90.550	350.160	6644.59	7108.33	6211.80	-3890.12	1708068.56	14311781.47	39°24'40.699"N	80°45'37.730"W	7329.36	327.943	0.50	-0.49	-0.02	
14206.00	91.290	341.670	6643.08	7202.02	6302.88	-3912.97	1708045.72	14311872.51	39°24'41.600"N	80°45'38.018"W	7418.74	328.167	9.06	0.79	-9.03	
14301.00	90.920	341.520	6641.24	7297.00	6393.01	-3942.96	1708015.74	14311962.60	39°24'42.492"N	80°45'38.397"W	7511.16	328.335	0.42	-0.39	-0.16	
14395.00	91.510	342.060	6639.25	7390.98	6482.28	-3972.33	1707986.38	14312051.84	39°24'43.375"N	80°45'38.768"W	7602.59	328.500	0.85	0.63	0.57	
14490.00	91.630	342.190	6636.65	7485.94	6572.66	-4001.48	1707957.25	14312142.18	39°24'44.269"N	80°45'39.137"W	7694.91	328.667	0.19	0.13	0.14	
14584.00	91.660	339.530	6633.95	7579.87	6661.42	-4032.28	1707926.45	14312230.91	39°24'45.147"N	80°45'39.526"W	7786.77	328.813	2.83	0.03	-2.83	
14679.00	91.600	334.220	6631.24	7674.41	6748.72	-4069.56	1707889.19	14312318.17	39°24'46.011"N	80°45'39.998"W	7880.77	328.909	5.59	-0.06	-5.59	
14774.00	91.540	331.600	6628.64	7768.17	6833.26	-4112.80	1707845.96	14312402.68	39°24'46.847"N	80°45'40.546"W	7975.50	328.957	2.76	-0.06	-2.76	
14868.00	91.570	333.480	6626.09	7860.83	6916.63	-4156.13	1707802.65	14312486.02	39°24'47.672"N	80°45'41.096"W	8069.28	328.999	2.00	0.03	2.00	
14963.00	91.420	335.660	6623.61	7954.99	7002.39	-4196.91	1707761.89	14312571.75	39°24'48.521"N	80°45'41.612"W	8163.79	329.063	2.30	-0.16	2.29	

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Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Tyler County, WV		Well	Lindsey Unit 2H
Field	Tyler		Wellbore	Lindsey Unit 2H AWB
Facility	Alta Pad			

WELLPATH DATA (207 stations)																
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
15057.00	91.690	336.300	6621.06	8048.43	7088.22	-4235.16	1707723.65	14312657.54	39°24'49.370"N	80°45'42.097"W	8257.08	329.142	0.74	0.29	0.68	
15152.00	91.540	340.310	6618.38	8143.17	7176.44	-4270.26	1707688.57	14312745.72	39°24'50.243"N	80°45'42.541"W	8350.83	329.246	4.22	-0.16	4.22	
15246.00	91.570	340.040	6615.83	8237.08	7264.83	-4302.12	1707656.72	14312834.08	39°24'51.118"N	80°45'42.944"W	8443.11	329.367	0.29	0.03	-0.29	
15340.00	91.600	343.870	6613.23	8331.03	7354.16	-4331.22	1707627.63	14312923.37	39°24'52.001"N	80°45'43.312"W	8534.82	329.504	4.07	0.03	4.07	
15435.00	91.050	342.290	6611.03	8425.98	7445.02	-4358.87	1707600.00	14313014.20	39°24'52.900"N	80°45'43.661"W	8627.17	329.652	1.76	-0.58	-1.66	
15529.00	91.050	341.820	6609.31	8519.97	7534.43	-4387.82	1707571.05	14313103.57	39°24'53.784"N	80°45'44.027"W	8718.98	329.785	0.50	0.00	-0.50	
15624.00	90.950	343.000	6607.65	8614.95	7624.97	-4416.53	1707542.36	14313194.08	39°24'54.680"N	80°45'44.389"W	8811.69	329.920	1.25	-0.11	1.24	
15718.00	91.110	344.120	6605.96	8708.90	7715.11	-4443.12	1707515.77	14313284.19	39°24'55.572"N	80°45'44.725"W	8903.05	330.062	1.20	0.17	1.19	
15813.00	91.080	343.960	6604.15	8803.83	7806.44	-4469.24	1707489.66	14313375.47	39°24'56.475"N	80°45'45.055"W	8995.25	330.209	0.17	-0.03	-0.17	
15907.00	91.020	342.000	6602.42	8897.79	7896.30	-4496.75	1707462.17	14313465.30	39°24'57.364"N	80°45'45.402"W	9086.93	330.340	2.09	-0.06	-2.09	
16002.00	91.020	341.790	6600.73	8992.78	7986.58	-4526.27	1707432.66	14313555.55	39°24'58.257"N	80°45'45.776"W	9180.01	330.458	0.22	0.00	-0.22	
16096.00	90.890	345.290	6599.17	9086.72	8076.70	-4552.89	1707406.04	14313645.63	39°24'59.148"N	80°45'46.112"W	9271.57	330.590	3.73	-0.14	3.72	
16190.00	90.890	347.950	6597.71	9180.40	8168.13	-4574.64	1707384.31	14313737.02	39°25'00.052"N	80°45'46.386"W	9361.93	330.749	2.83	0.00	2.83	
16284.00	91.050	345.950	6596.11	9274.04	8259.69	-4595.86	1707363.09	14313828.54	39°25'00.958"N	80°45'46.653"W	9452.22	330.908	2.13	0.17	-2.13	
16379.00	90.860	342.350	6594.53	9368.95	8351.05	-4621.80	1707337.16	14313919.87	39°25'01.862"N	80°45'46.981"W	9544.69	331.038	3.79	-0.20	-3.79	
16473.00	90.710	337.150	6593.24	9462.83	8439.20	-4654.32	1707304.66	14314007.98	39°25'02.734"N	80°45'47.392"W	9637.57	331.123	5.53	-0.16	-5.53	
16567.00	90.920	335.540	6591.90	9556.35	8525.29	-4692.03	1707266.96	14314094.04	39°25'03.585"N	80°45'47.870"W	9731.17	331.173	1.73	0.22	-1.71	
16662.00	90.520	339.870	6590.71	9651.05	8613.16	-4728.06	1707230.95	14314181.88	39°25'04.455"N	80°45'48.326"W	9825.53	331.236	4.58	-0.42	4.56	
16756.00	91.140	343.750	6589.35	9745.02	8702.43	-4757.40	1707201.62	14314271.12	39°25'05.338"N	80°45'48.697"W	9917.92	331.336	4.18	0.66	4.13	
16850.00	90.710	346.090	6587.83	9838.88	8793.18	-4781.85	1707177.18	14314361.82	39°25'06.235"N	80°45'49.005"W	10009.30	331.462	2.53	-0.46	2.49	
16945.00	90.250	349.760	6587.03	9933.36	8886.06	-4801.72	1707157.32	14314454.67	39°25'07.154"N	80°45'49.255"W	10100.42	331.615	3.89	-0.48	3.86	
17039.00	90.490	350.960	6586.43	10026.37	8978.73	-4817.46	1707141.59	14314547.30	39°25'08.070"N	80°45'49.453"W	10189.48	331.785	1.30	0.26	1.28	
17133.00	90.400	351.810	6585.70	10119.12	9071.66	-4831.54	1707127.51	14314640.20	39°25'08.989"N	80°45'49.629"W	10278.07	331.960	0.91	-0.10	0.90	
17228.00	90.680	345.590	6584.80	10213.43	9164.77	-4850.14	1707108.91	14314733.27	39°25'09.910"N	80°45'49.863"W	10369.04	332.111	6.55	0.29	-6.55	
17322.00	90.460	344.940	6583.87	10307.28	9255.67	-4874.05	1707085.02	14314824.14	39°25'10.809"N	80°45'50.164"W	10460.59	332.229	0.73	-0.23	-0.69	
17429.00	90.430	346.600	6583.03	10414.05	9359.38	-4900.35	1707058.73	14314927.81	39°25'11.835"N	80°45'50.496"W	10564.63	332.365	1.55	-0.03	1.55	
17454.00	90.430	346.600	6582.85	10438.97	9383.70	-4906.14	1707052.94	14314952.11	39°25'12.075"N	80°45'50.569"W	10588.87	332.398	0.00	0.00	0.00	Projected MD at TD: 17454'

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Lindsey Unit 2H
Field	Tyler	Wellbore	Lindsey Unit 2H AWB
Facility	Alta Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Lindsey Unit 2H AWB Ref Wellpath: Lindsey Unit 2H AWP Proj: 17454'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	98.00	68.00	30.00	98.00	0.00	0.00	-0.05	-0.02
17.5in Open Hole	98.00	500.00	402.00	98.00	500.00	-0.05	-0.02	0.32	-0.95
13.375in Casing Surface	30.00	500.00	470.00	30.00	500.00	0.00	0.00	0.32	-0.95
12.25in Open Hole	500.00	2658.00	2158.00	500.00	2585.45	0.32	-0.95	-224.26	-402.41
9.625in Casing Intermediate	30.00	2658.00	2628.00	30.00	2585.45	0.00	0.00	-224.26	-402.41
8.75in Open Hole	2658.00	6228.00	3570.00	2585.45	5931.58	-224.26	-402.41	-839.42	-1477.12
8.5in Open Hole	6228.00	17454.00	11226.00	5931.58	6582.85	-839.42	-1477.12	9383.70	-4906.14
5.5in Casing Production	30.00	17454.00	17424.00	30.00	6582.85	0.00	0.00	9383.70	-4906.14

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Lindsey Unit 2H - POE - Rev-1	6602.00	-406.29	-1791.85	1710166.00	14305166.00	39°23'35.233"N	80°45'11.228"W	point
Lindsey Unit 2H - BHL - Rev-1	6642.00	9424.53	-4977.53	1706981.58	14314992.93	39°25'12.480"N	80°45'51.477"W	point
Lindsey Unit 2H - BHL - Rev-2	6642.00	9373.16	-4960.88	1706998.22	14314941.57	39°25'11.972"N	80°45'51.267"W	point
Lindsey Unit 2H - LP - Rev-1	6642.00	-182.64	-1864.32	1710093.56	14305389.56	39°23'37.446"N	80°45'12.143"W	point

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Field	Tyler	Wellbore	Lindsey Unit 2H AWB
Facility	Alta Pad		

WELLPATH COMPOSITION - Ref Wellbore: Lindsey Unit 2H AWB Ref Wellpath: Lindsey Unit 2H AWP Proj: 17454'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	490.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(100'-475')	Lindsey Unit 2H AWB
490.00	2590.00	ISCWSA MWD, Rev. 4 (Standard)	02 Panther EM <12-1/4">(475')(567'-2575')	Lindsey Unit 2H AWB
2590.00	6166.00	ISCWSA MWD, Rev. 4 (Standard)	03 Panther EM <8-3/4">(2575')(2687'-6151')	Lindsey Unit 2H AWB
6166.00	17429.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2">(6166')(6195'- 17429')	Lindsey Unit 2H AWB
17429.00	17454.00	Blind Drilling (std)	Projection to bit	Lindsey Unit 2H AWB

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Facility	Alta Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02548-0000 BHI Job #: 109706539 Rig: H&P 519 Duration: 03/15/2019-03/17/2019 Gyrodata MS Gyro <17-1/2">(100'-475') Panther EM <12-1/4">(475')(567'-2575') Panther EM <8-3/4">(2575')(2687'-6151') BH AT Curve <8-1/2">(6166')(6195'- 17429') Middlesex: 6722' MD Burkett: 6926' MD Tully: 6987' MD Hamilton: 7086' MD Marcellus POE: 7129' MD Projected MD at TD: 17454'</p>

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