

# NORTHEAST NATURAL ENERGY, LLC

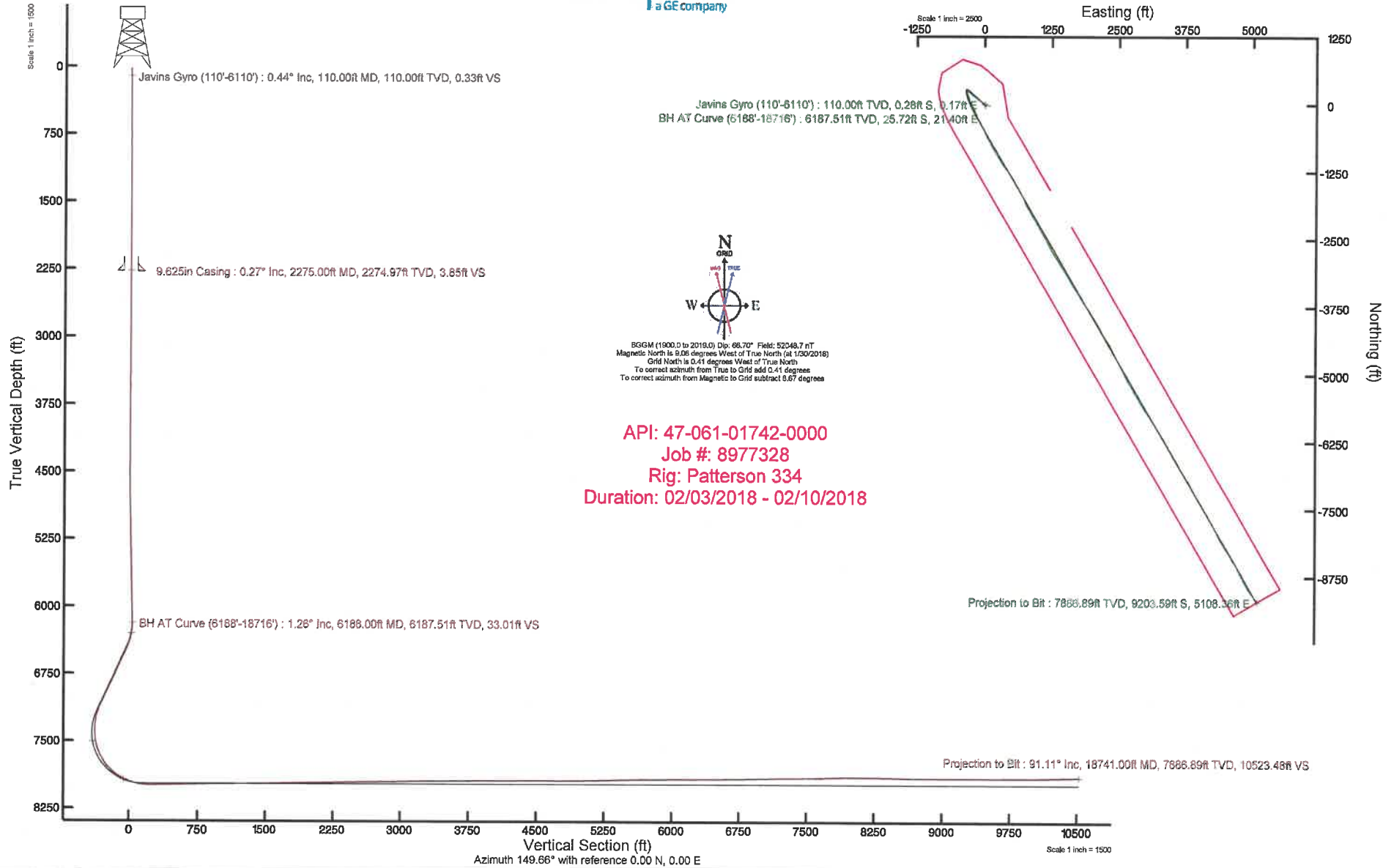
Location: Monongalia County, WV  
 Field: Monongalia  
 Facility: Jenkins Pad

Slot: Slot #04  
 Well: Jenkins 4H  
 Wellbore: Jenkins 4H PWB

Plot reference wellpath is Jenkins 4H PWP Rev-A.0	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Patterson 334 (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to Patterson 334 (RKB)	North Reference: Grid north
Patterson 334 (RKB) to Mean Sea Level: 1139 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot: Slot #04): -1114 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: thomsuzz on 2018-02-13
	Database: WA_Pennsylvania



Location Information						
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Jenkins Pad		1788480.777	441086.186	39°42'33.300"N	80°08'23.600"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #04	-11.66	37.03	1788517.800	441074.630	39°42'33.188"N	80°08'23.125"W
Comment: Jenkins 4H						
Patterson 334 (RKB) to Ground level (At Slot: Slot #04)				25ft		
Mean Sea Level to Ground level (At Slot: Slot #04)				-1114ft		
Patterson 334 (RKB) to Mean Sea Level				1139ft		





## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot #04
Area	Monongalia County, WV	Well	Jenkins 4H
Field	Monongalia	Wellbore	Jenkins 4H AWB
Facility	Jenkins Pad		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US	Software System	WellArchitect® 5.0
feet		User	Thomsuzc
North Reference	Grid	Report Generated	2/13/2018 at 8:57:14 AM
Scale	0.999942	Database/Source file	WA_Pennsylvania/Jenkins_4H_AWP_Proj_18741_MD.xml
Convergence at slot	0.41° West		

## WELLPATH LOCATION

Local coordinates		Grid coordinates		Geographic coordinates	
North [ft]	-1.56	East [ft]	37.03	Easting [US ft]	1788517.80
Field Reference Pt		Facility Reference Pt		Latitude	39°42'33.125"N
Slot Location		Slot Reference Pt		Longitude	80°08'23.125"W
				Field Reference Pt	80°08'23.600"W
				Facility Reference Pt	441074.63
				Field Reference Pt	441086.19
					440640.65
					39°42'28.114"N
					80°10'41.690"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 334 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 334 (RKB) to Mean Sea Level	1139.00ft
Vertical Reference Pt	Patterson 334 (RKB)	Patterson 334 (RKB) to Ground Level at Slot (Slot #04)	25.00ft
MD Reference Pt	Patterson 334 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	149.66°

# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741.MD

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC		
Area	Monongalia County, WV	Well	Jenkins 4H
Field	Monongalia	Wellbore	Jenkins 4H AWB
Facility	Jenkins Pad		

## WELLPATH DATA (197 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
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[°N]	[°W]	[ft]	[°]	[ft]	[%/100ft]	[%/100ft]
0.00	0.00	148.710	0.00	0.00	0.00	0.00	1788517.80	441074.63	39°42'33.188"N	80°08'23.125"W	0.00	0.00	0.00	0.00	0.00
25.00	0.000	148.710	25.00	0.00	0.00	0.00	1788517.80	441074.63	39°42'33.188"N	80°08'23.125"W	0.00	0.00	0.00	0.00	0.00
110.00	0.440	148.710	110.00	0.33	-0.28	0.17	1788517.97	441074.35	39°42'33.186"N	80°08'23.123"W	0.33	148.710	0.52	0.52	174.95
210.00	0.590	203.810	210.00	1.01	-1.08	0.16	1788517.96	441073.55	39°42'33.178"N	80°08'23.123"W	1.09	171.502	0.49	0.15	55.10
310.00	0.240	130.810	309.99	1.51	-1.69	0.11	1788517.91	441072.94	39°42'33.172"N	80°08'23.124"W	1.69	176.208	0.57	-0.35	-73.00
410.00	0.550	196.410	409.99	2.04	-2.28	0.13	1788517.93	441072.35	39°42'33.166"N	80°08'23.123"W	2.29	176.624	0.50	0.31	65.60
510.00	0.360	243.410	509.99	2.35	-2.88	-0.28	1788517.52	441071.75	39°42'33.160"N	80°08'23.129"W	2.90	185.581	0.40	-0.19	47.00
610.00	0.270	92.610	609.99	2.45	-3.04	-0.33	1788517.47	441071.59	39°42'33.158"N	80°08'23.129"W	3.05	186.156	0.61	-0.09	-150.80
710.00	0.430	210.510	709.99	2.77	-3.37	-0.28	1788517.52	441071.26	39°42'33.155"N	80°08'23.129"W	3.38	184.793	0.61	0.16	117.80
810.00	0.270	26.510	809.99	2.82	-3.48	-0.37	1788517.43	441071.15	39°42'33.154"N	80°08'23.130"W	3.50	186.031	0.70	-0.16	176.00
910.00	0.280	179.410	909.99	2.90	-3.52	-0.26	1788517.54	441071.11	39°42'33.154"N	80°08'23.128"W	3.53	184.233	0.53	0.01	152.90
1010.00	0.110	247.010	1009.99	3.10	-3.80	-0.35	1788517.45	441070.83	39°42'33.151"N	80°08'23.129"W	3.81	185.207	0.26	-0.17	67.60
1110.00	0.300	49.210	1109.98	3.04	-3.66	-0.24	1788517.56	441070.97	39°42'33.152"N	80°08'23.128"W	3.67	183.689	0.41	0.19	162.20
1210.00	0.380	142.210	1209.98	3.32	-3.75	0.17	1788517.97	441070.88	39°42'33.151"N	80°08'23.123"W	3.76	177.481	0.50	0.08	93.00
1310.00	0.420	53.510	1309.98	3.61	-3.80	0.66	1788518.46	441070.83	39°42'33.151"N	80°08'23.116"W	3.86	170.099	0.56	0.04	-88.70
1410.00	0.260	119.010	1409.98	3.77	-3.69	1.16	1788518.96	441070.94	39°42'33.152"N	80°08'23.110"W	3.87	162.608	0.39	-0.16	65.50
1510.00	0.470	67.410	1509.98	4.02	-3.64	1.73	1788519.53	441070.99	39°42'33.153"N	80°08'23.103"W	4.03	154.559	0.37	0.21	-51.60
1610.00	0.260	55.010	1609.98	4.06	-3.36	2.30	1788520.10	441071.27	39°42'33.155"N	80°08'23.095"W	4.07	145.600	0.22	-0.21	-12.40
1710.00	0.430	105.510	1709.97	4.31	-3.33	2.85	1788520.65	441071.30	39°42'33.156"N	80°08'23.088"W	4.38	139.455	0.33	0.17	50.50
1810.00	0.390	29.610	1809.97	4.41	-3.13	3.38	1788521.17	441071.50	39°42'33.158"N	80°08'23.082"W	4.60	132.848	0.51	-0.04	-75.90
1910.00	0.200	161.210	1909.97	4.41	-3.00	3.60	1788521.40	441071.63	39°42'33.159"N	80°08'23.079"W	4.69	129.810	0.54	-0.19	131.60
2010.00	0.310	324.910	2009.97	4.31	-2.94	3.50	1788521.30	441071.69	39°42'33.160"N	80°08'23.080"W	4.57	130.066	0.51	0.11	163.70
2110.00	0.310	70.610	2109.97	4.09	-2.63	3.60	1788521.40	441072.00	39°42'33.163"N	80°08'23.079"W	4.46	126.179	0.49	0.00	105.70
2210.00	0.270	269.910	2209.97	4.02	-2.54	3.62	1788521.42	441072.09	39°42'33.164"N	80°08'23.079"W	4.42	125.095	0.57	-0.04	-160.70
2310.00	0.480	35.310	2309.97	3.73	-2.20	3.63	1788521.43	441072.43	39°42'33.167"N	80°08'23.079"W	4.24	121.268	0.67	0.21	125.40
2410.00	0.160	226.710	2409.97	3.59	-1.96	3.77	1788521.57	441072.67	39°42'33.169"N	80°08'23.077"W	4.24	117.441	0.64	-0.32	-168.60
2510.00	0.310	16.710	2509.97	3.44	-1.79	3.74	1788521.54	441072.84	39°42'33.171"N	80°08'23.077"W	4.15	115.590	0.46	0.15	150.00
2610.00	0.420	123.510	2609.97	3.58	-1.74	4.13	1788521.93	441072.89	39°42'33.172"N	80°08'23.072"W	4.48	112.814	0.59	0.11	106.80
2710.00	0.210	332.110	2709.97	3.73	-1.78	4.35	1788522.15	441072.85	39°42'33.171"N	80°08'23.069"W	4.69	112.228	0.61	-0.21	-151.40
2810.00	0.310	74.110	2809.97	3.61	-1.54	4.52	1788522.32	441073.09	39°42'33.173"N	80°08'23.067"W	4.78	108.812	0.41	0.10	102.00

# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741MD

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC
Area	Mongalia County, WV
Field	Mongalia
Facility	Jenkins Pad
Well	Jenkins 4H
Wellbore	Jenkins 4H AWB
Slot	Slot #04

## WELLPATH DATA (197 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(ft)	(%/100ft)	(%/100ft)	(%/100ft)
2910.00	0.280	200.310	2909.96	3.83	-1.69	4.70	1788522.50	441072.94	39°42'33.172"N	80°08'23.065"W	4.99	109.848	0.53	-0.03	126.20
3010.00	0.330	11.810	3009.96	3.78	-1.64	4.67	1788522.47	441072.99	39°42'33.172"N	80°08'23.065"W	4.95	109.376	0.61	0.05	171.50
3110.00	0.450	230.710	3109.96	3.62	-1.61	4.42	1788522.22	441073.02	39°42'33.173"N	80°08'23.068"W	4.71	109.984	0.74	0.12	-141.10
3210.00	0.630	286.910	3209.96	3.28	-1.70	3.59	1788521.39	441072.93	39°42'33.172"N	80°08'23.079"W	3.98	115.281	0.53	0.18	56.20
3310.00	0.520	211.610	3309.96	3.09	-1.92	2.83	1788520.63	441072.71	39°42'33.170"N	80°08'23.089"W	3.42	124.206	0.71	-0.11	-75.30
3410.00	0.670	280.510	3409.95	2.92	-2.20	2.02	1788519.82	441072.43	39°42'33.167"N	80°08'23.099"W	2.99	137.522	0.68	0.15	68.90
3510.00	0.640	214.310	3509.95	2.78	-2.56	1.13	1788518.93	441072.07	39°42'33.163"N	80°08'23.111"W	2.80	156.201	0.72	-0.03	-66.20
3610.00	0.410	320.010	3609.94	2.66	-2.75	0.58	1788518.38	441071.88	39°42'33.161"N	80°08'23.117"W	2.81	167.998	0.85	-0.23	105.70
3710.00	0.540	300.010	3709.94	1.90	-2.24	-0.05	1788517.75	441072.50	39°42'33.166"N	80°08'23.126"W	2.24	181.389	0.21	0.13	-20.00
3810.00	0.160	201.010	3809.94	1.58	-2.13	-0.51	1788517.29	441072.50	39°42'33.167"N	80°08'23.132"W	2.19	193.519	0.59	-0.38	-99.00
3910.00	0.790	288.010	3909.94	1.15	-2.05	-1.22	1788516.58	441072.58	39°42'33.168"N	80°08'23.141"W	2.38	210.740	0.80	0.63	87.00
4010.00	0.640	221.210	4009.93	0.81	-2.26	-2.24	1788515.56	441072.38	39°42'33.166"N	80°08'23.154"W	3.18	224.828	0.80	-0.15	-66.80
4110.00	0.590	217.510	4109.92	1.18	-3.08	-2.92	1788514.88	441071.55	39°42'33.158"N	80°08'23.162"W	4.25	223.468	0.06	-0.05	-3.70
4210.00	0.370	349.110	4209.92	1.07	-3.17	-3.30	1788514.50	441071.46	39°42'33.157"N	80°08'23.167"W	4.58	226.085	0.88	-0.22	131.60
4310.00	0.590	243.810	4309.92	0.73	-3.09	-3.82	1788513.98	441071.55	39°42'33.158"N	80°08'23.174"W	4.91	231.078	0.77	0.22	-105.30
4410.00	0.460	309.210	4409.92	0.32	-3.06	-4.59	1788513.21	441071.57	39°42'33.158"N	80°08'23.184"W	5.52	236.342	0.58	-0.13	65.40
4510.00	0.300	105.110	4509.92	0.13	-2.87	-4.65	1788513.15	441071.76	39°42'33.160"N	80°08'23.184"W	5.47	238.300	0.74	-0.16	155.90
4610.00	0.650	153.010	4609.91	0.88	-3.45	-4.14	1788513.66	441071.18	39°42'33.154"N	80°08'23.178"W	5.39	230.232	0.50	0.35	47.90
4710.00	0.610	125.610	4709.91	1.93	-4.26	-3.45	1788513.07	441070.37	39°42'33.146"N	80°08'23.169"W	5.48	219.000	0.30	-0.04	-27.40
4810.00	1.250	164.610	4809.89	3.47	-5.62	-2.73	1788515.05	441069.01	39°42'33.133"N	80°08'23.160"W	6.25	205.888	0.87	0.64	39.00
4910.00	1.380	158.710	4909.87	5.72	-7.80	-2.00	1788515.80	441066.83	39°42'33.111"N	80°08'23.150"W	8.05	194.404	0.19	0.13	-5.90
5010.00	1.750	139.310	5009.83	8.41	-10.08	-0.57	1788517.23	441064.55	39°42'33.089"N	80°08'23.132"W	10.09	183.236	0.64	0.37	-19.40
5110.00	1.130	128.410	5109.80	10.83	-11.85	1.20	1788519.00	441062.78	39°42'33.071"N	80°08'23.109"W	11.91	174.224	0.68	-0.62	-10.90
5210.00	1.130	128.110	5209.78	12.67	-13.07	2.75	1788520.55	441061.56	39°42'33.059"N	80°08'23.089"W	13.35	168.130	0.01	0.00	-0.30
5310.00	1.230	117.010	5309.76	14.49	-14.16	4.48	1788522.28	441060.47	39°42'33.049"N	80°08'23.067"W	14.86	162.453	0.25	0.10	-11.10
5410.00	1.450	141.110	5409.73	16.64	-15.64	6.23	1788524.03	441058.99	39°42'33.034"N	80°08'23.044"W	16.83	158.279	0.60	0.22	24.10
5510.00	1.440	125.210	5509.70	19.04	-17.35	8.05	1788525.85	441057.28	39°42'33.018"N	80°08'23.021"W	19.12	155.104	0.40	-0.01	-15.90
5610.00	1.490	120.310	5609.67	21.31	-18.73	10.20	1788528.00	441055.90	39°42'33.004"N	80°08'22.993"W	21.32	151.425	0.13	0.05	-4.90
5710.00	1.000	111.510	5709.64	23.13	-19.70	12.13	1788529.93	441054.93	39°42'32.995"N	80°08'22.968"W	23.14	148.374	0.52	-0.49	-8.80
5810.00	1.260	116.210	5809.62	24.74	-20.51	13.93	1788531.73	441054.12	39°42'32.987"N	80°08'22.945"W	24.79	145.811	0.28	0.26	4.70

# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741MD

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Area	Monongalia County, WV
Field	Monongalia
Facility	Jenkins Pad
Slot	Slot #04
	Jenkins 4H
	Jenkins 4H AWB
	Wellbore

## WELLPATH DATA (197 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	(ft/100ft)	(°/100ft)	(°/100ft)
5910.00	1.440	118.310	5909.60	26.73	-21.59	16.02	1788533.82	441053.04	39°42'32.976"N	80°08'22.918"W	26.89	143.416	0.19	0.18	2.10
6010.00	1.250	119.110	6009.57	28.74	-22.72	18.08	1788535.88	441051.91	39°42'32.965"N	80°08'22.892"W	29.04	141.478	0.19	-0.19	0.80
6110.00	1.650	135.210	6109.54	31.07	-24.27	20.05	1788537.85	441050.36	39°42'32.950"N	80°08'22.866"W	31.46	140.436	0.57	0.40	16.10
6188.00	1.260	139.660	6187.51	33.01	-25.72	21.40	1788539.20	441048.91	39°42'32.936"N	80°08'22.849"W	33.46	140.241	0.52	-0.50	5.71
6283.00	7.749	314.600	6282.26	27.85	-22.02	17.51	1788535.31	441052.62	39°42'32.972"N	80°08'22.899"W	28.13	141.503	9.47	6.82	184.15
6378.00	16.630	323.080	6375.03	8.12	-6.62	4.76	1788522.56	441068.01	39°42'33.123"N	80°08'23.064"W	8.16	144.283	9.52	9.36	8.93
6473.00	25.440	310.820	6463.66	-24.77	17.64	-18.90	1788498.90	441092.27	39°42'33.361"N	80°08'23.369"W	25.85	313.024	10.32	9.27	-12.91
6568.00	26.490	305.980	6549.08	-63.49	43.43	-51.49	1788466.31	441118.06	39°42'33.614"N	80°08'23.788"W	67.36	310.145	2.49	1.11	-5.09
6663.00	26.510	306.660	6634.10	-102.41	68.54	-85.65	1788432.16	441143.16	39°42'33.860"N	80°08'24.227"W	109.69	308.668	0.32	0.02	0.72
6758.00	26.650	307.690	6719.06	-141.69	94.22	-119.51	1788398.29	441168.85	39°42'34.111"N	80°08'24.663"W	152.19	308.251	0.51	0.15	1.08
6852.00	26.500	308.780	6803.13	-180.83	120.25	-152.54	1788365.26	441194.87	39°42'34.366"N	80°08'25.088"W	194.24	308.247	0.54	-0.16	1.16
6946.00	26.500	309.400	6887.25	-220.10	146.69	-185.10	1788332.71	441221.31	39°42'34.625"N	80°08'25.507"W	236.18	308.397	0.29	0.00	0.66
7042.00	26.360	308.490	6973.22	-260.07	173.55	-218.33	1788299.48	441248.17	39°42'34.888"N	80°08'25.935"W	278.90	308.481	0.45	-0.15	-0.95
7136.00	25.030	312.100	7057.92	-298.49	199.87	-249.42	1788268.39	441274.49	39°42'35.146"N	80°08'26.335"W	319.63	308.707	2.18	-1.41	3.84
7232.00	22.230	313.630	7145.87	-335.31	226.02	-277.64	1788240.18	441300.64	39°42'35.403"N	80°08'26.698"W	358.01	309.149	2.99	-2.92	1.59
7327.00	14.670	293.710	7236.01	-362.39	243.30	-301.72	1788216.10	441317.92	39°42'35.572"N	80°08'27.008"W	387.60	308.882	10.26	-7.96	-20.97
7422.00	6.600	261.380	7329.37	-374.18	247.33	-318.17	1788199.65	441321.95	39°42'35.610"N	80°08'27.219"W	403.00	307.860	10.25	-8.49	-34.03
7517.00	4.920	212.230	7423.94	-374.32	243.06	-325.75	1788192.07	441317.68	39°42'35.568"N	80°08'27.315"W	406.44	306.729	5.29	-1.77	-51.74
7611.00	11.860	171.620	7516.94	-363.48	230.07	-326.49	1788191.33	441304.69	39°42'35.439"N	80°08'27.324"W	399.41	305.172	9.28	7.38	-43.20
7707.00	20.819	162.760	7608.99	-337.67	203.97	-319.98	1788197.84	441278.59	39°42'35.182"N	80°08'27.238"W	379.46	302.515	9.65	9.32	-9.23
7802.00	30.480	166.970	7694.53	-298.13	164.28	-309.52	1788208.29	441238.90	39°42'34.790"N	80°08'27.101"W	350.42	297.957	10.35	10.18	4.43
7898.00	39.430	161.630	7773.15	-244.94	111.51	-294.39	1788223.42	441186.13	39°42'34.270"N	80°08'26.902"W	314.80	290.745	9.84	9.32	-5.56
7993.00	49.340	154.480	7841.00	-179.32	50.17	-269.28	1788248.53	441124.79	39°42'33.665"N	80°08'26.575"W	273.92	280.553	11.67	10.43	-7.53
8088.00	59.010	152.990	7896.54	-102.58	-18.79	-235.18	1788282.63	441055.84	39°42'32.986"N	80°08'26.133"W	235.93	265.431	10.26	10.18	-1.57
8183.00	67.699	155.550	7939.12	-18.04	-95.23	-198.43	1788319.38	440979.40	39°42'32.233"N	80°08'25.655"W	220.10	244.362	9.45	9.14	2.69
8277.00	75.170	156.640	7969.04	70.44	-176.64	-162.36	1788355.45	440898.00	39°42'31.431"N	80°08'25.187"W	239.93	222.688	8.03	7.96	1.16
8373.00	83.590	154.800	7986.71	164.18	-262.56	-123.58	1788394.23	440812.08	39°42'30.585"N	80°08'24.683"W	290.19	205.205	8.97	8.77	-1.92
8468.00	90.830	151.790	7991.34	258.80	-347.26	-80.97	1788436.84	440727.39	39°42'29.751"N	80°08'24.130"W	356.57	193.125	8.25	7.62	-3.17
8562.00	90.710	153.100	7990.07	352.68	-430.59	-37.49	1788480.32	440644.07	39°42'28.930"N	80°08'23.566"W	432.22	184.976	1.40	-0.13	1.39
8657.00	91.080	152.960	7988.59	447.50	-515.25	5.59	1788523.39	440569.42	39°42'28.097"N	80°08'23.007"W	515.28	179.378	0.42	0.39	-0.15



northeast  
NATURAL ENERGY

# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741MD

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BAKER HUGHES  
a GE company



## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC
Area	Monongalia County, WV
Field	Monongalia
Facility	Jenkins Pad
Well	Wellbore
Slot	Jenkins 4H
Slot #04	

## WELLPATH DATA (197 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[ft]	[ft]	[ft]	[°]	[%/100ft]	[%/100ft]	[%/100ft]
8752.00	91.050	151.000	7986.82	542.40	-599.09	50.21	1788568.01	440475.58	39°42'27.27"N	80°08'22.42"W	601.19	175.209	2.06	-0.03	-2.06
8847.00	91.140	153.860	7985.01	637.27	-683.28	94.17	1788611.96	440391.39	39°42'26.44"N	80°08'21.85"W	689.74	172.153	3.01	0.09	3.01
8942.00	91.110	150.790	7983.14	732.13	-767.38	138.28	1788656.07	440307.29	39°42'25.614"N	80°08'21.28"W	779.74	169.785	3.23	-0.03	-3.23
9037.00	91.320	148.510	7981.13	827.11	-849.34	186.27	1788704.05	440225.34	39°42'24.808"N	80°08'20.66"W	869.53	167.531	2.41	0.22	-2.40
9132.00	91.200	148.490	7979.04	922.06	-930.32	235.89	1788753.68	440144.36	39°42'24.011"N	80°08'20.02"W	959.76	165.772	0.13	-0.13	-0.02
9226.00	90.580	149.950	7977.58	1016.05	-1011.07	283.99	1788801.77	440063.62	39°42'23.216"N	80°08'19.400"W	1050.20	164.311	1.69	-0.66	1.56
9321.00	91.020	149.270	7976.25	1111.04	-1093.01	332.04	1788849.82	439981.69	39°42'22.410"N	80°08'18.777"W	1142.33	163.102	0.85	0.46	-0.72
9416.00	90.310	142.590	7975.15	1205.77	-1171.65	385.23	1788903.00	439903.05	39°42'21.637"N	80°08'18.090"W	1233.36	161.800	7.07	-0.75	-7.03
9512.00	91.750	144.040	7973.42	1301.17	-1248.62	442.57	1788960.34	439826.09	39°42'20.880"N	80°08'17.349"W	1324.73	160.483	2.13	1.50	1.51
9607.00	90.220	148.520	7971.79	1395.66	-1327.60	495.28	1789013.05	439747.11	39°42'20.103"N	80°08'16.667"W	1416.98	159.541	4.98	-1.61	4.72
9701.00	90.800	149.200	7970.95	1489.95	-1408.05	543.89	1789061.66	439666.66	39°42'19.311"N	80°08'16.038"W	1509.45	158.880	0.96	0.72	0.72
9797.00	90.950	151.780	7969.48	1585.92	-1491.58	591.17	1789108.93	439583.14	39°42'18.489"N	80°08'15.426"W	1604.46	158.380	2.69	0.16	2.69
9892.00	91.320	150.690	7967.60	1680.86	-1574.84	636.87	1789154.63	439499.88	39°42'17.670"N	80°08'14.833"W	1698.75	157.981	1.21	0.39	-1.15
9988.00	90.950	151.500	7965.70	1776.81	-1658.87	683.27	1789201.02	439415.86	39°42'16.843"N	80°08'14.232"W	1794.07	157.614	0.93	-0.39	0.84
10083.00	90.860	154.510	7964.20	1871.63	-1743.50	726.38	1789244.13	439331.24	39°42'16.009"N	80°08'13.673"W	1888.76	157.382	3.17	-0.09	3.17
10177.00	90.950	156.480	7962.72	1965.12	-1829.01	765.36	1789283.11	439245.73	39°42'15.167"N	80°08'13.166"W	1982.69	157.293	2.10	0.10	2.10
10270.00	90.710	150.270	7961.37	2057.87	-1912.10	807.01	1789324.76	439162.64	39°42'14.349"N	80°08'12.626"W	2075.43	157.118	6.68	-0.26	-6.68
10366.00	90.920	148.520	7960.00	2153.86	-1994.72	855.88	1789373.63	439080.03	39°42'13.536"N	80°08'11.993"W	2170.58	156.777	1.84	0.22	-1.82
10461.00	91.200	149.950	7958.24	2248.84	-2076.38	904.46	1789422.21	438998.42	39°42'12.732"N	80°08'11.364"W	2264.78	156.462	1.53	0.29	1.51
10556.00	91.200	147.520	7956.25	2343.80	-2157.51	953.75	1789471.50	438917.25	39°42'11.934"N	80°08'10.726"W	2358.92	156.152	2.56	0.00	-2.56
10651.00	91.080	150.640	7954.36	2438.76	-2238.98	1002.55	1789520.29	438835.78	39°42'11.132"N	80°08'10.094"W	2453.20	155.879	3.29	-0.13	3.28
10746.00	90.740	151.050	7952.85	2533.73	-2321.94	1048.83	1789566.57	438752.83	39°42'10.315"N	80°08'09.495"W	2547.83	155.691	0.56	-0.36	0.43
10842.00	90.280	149.380	7952.00	2629.72	-2405.25	1096.51	1789614.25	438669.53	39°42'09.495"N	80°08'08.877"W	2643.40	155.493	1.80	-0.48	-1.74
10937.00	90.920	151.850	7951.01	2724.69	-2488.02	1143.12	1789660.85	438586.76	39°42'08.681"N	80°08'08.273"W	2738.06	155.324	2.69	0.67	2.60
11033.00	90.400	154.050	7949.90	2820.52	-2573.50	1186.77	1789704.50	438501.28	39°42'07.839"N	80°08'07.707"W	2833.96	155.243	2.35	-0.54	2.29
11127.00	90.980	151.150	7948.77	2914.38	-2656.94	1230.02	1789747.75	438417.85	39°42'07.017"N	80°08'07.146"W	2927.85	155.158	3.15	0.62	-3.09
11222.00	91.140	149.100	7947.01	3009.35	-2739.30	1277.33	1789795.06	438335.50	39°42'06.207"N	80°08'06.534"W	3022.47	155.000	2.16	0.17	-2.16
11317.00	91.260	147.210	7945.02	3104.30	-2819.98	1327.44	1789845.16	438254.82	39°42'05.413"N	80°08'05.885"W	3116.79	154.792	1.99	0.13	-1.99
11413.00	91.020	148.750	7943.11	3200.23	-2901.36	1378.33	1789896.04	438173.45	39°42'04.612"N	80°08'05.227"W	3212.11	154.589	1.63	-0.25	1.61
11508.00	90.430	145.500	7941.91	3295.12	-2981.13	1429.87	1789947.59	438093.68	39°42'03.827"N	80°08'04.560"W	3306.31	154.376	3.49	-0.62	-3.43

# Actual Wellpath Report

Jenkins 4H AWP Proj.: 18741MD  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC
Area	Monongalia County, WV
Field	Monongalia
Facility	Jenkins Pad
Well	Wellbore
Slot #04	Jenkins 4H

## WELLPATH DATA (197 stations)

MD	Inclination	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[ft]	[ft]	[us ft]	[us ft]	[ft]	[ft]	[ft]	[°]	[%/100ft]	[%/100ft]	[%/100ft]
11603.00	90.090	146.150	794.148	3389.90	-3059.73	1483.24	179000.95	438015.09	39°42'03.054"N	80°08'03.870"W	3400.28	0.77
11698.00	90.520	150.030	7940.97	3484.85	-3140.35	1533.44	179005.15	437934.47	39°42'02.261"N	80°08'03.221"W	3494.75	4.11
11794.00	90.400	149.150	7940.20	3580.85	-3223.14	1582.03	1790099.74	437851.68	39°42'01.446"N	80°08'02.592"W	3590.47	0.93
11886.00	90.770	150.850	7939.26	3672.84	-3302.81	1628.03	1790145.73	437772.02	39°42'00.652"N	80°08'01.996"W	3682.26	1.89
11982.00	90.580	147.410	7938.13	3768.81	-3385.19	1677.28	1790194.98	437689.64	39°41'59.851"N	80°08'01.359"W	3777.93	3.59
12076.00	90.090	146.500	7937.58	3862.70	-3463.98	1728.53	1790246.23	437610.85	39°41'59.076"N	80°08'00.696"W	3871.31	1.10
12171.00	89.940	150.610	7937.55	3957.66	-3545.02	1778.08	1790295.77	437529.83	39°41'58.279"N	80°08'00.054"W	3965.94	4.33
12266.00	90.060	148.510	7937.55	4052.66	-3626.92	1826.21	1790343.90	437447.93	39°41'57.473"N	80°07'59.431"W	4060.73	2.21
12361.00	90.450	146.490	7937.12	4147.59	-3707.03	1877.25	1790394.94	437367.82	39°41'56.685"N	80°07'58.771"W	4155.26	0.42
12456.00	90.710	146.340	7936.15	4242.43	-3786.17	1929.80	1790447.48	437288.69	39°41'55.906"N	80°07'58.092"W	4249.61	0.31
12552.00	90.650	148.190	7935.01	4338.33	-3866.91	1981.70	1790499.39	437207.95	39°41'55.112"N	80°07'57.420"W	4345.13	1.93
12647.00	90.060	148.990	7934.43	4433.31	-3947.99	2031.21	1790548.89	437126.88	39°41'54.314"N	80°07'56.780"W	4439.87	1.05
12741.00	89.630	148.990	7934.68	4527.31	-4028.56	2079.64	1790597.32	437046.32	39°41'53.521"N	80°07'56.153"W	4533.67	0.46
12837.00	89.880	150.830	7935.09	4623.30	-4111.61	2127.77	1790645.44	436963.26	39°41'52.704"N	80°07'55.530"W	4629.55	1.93
12932.00	89.600	151.530	7935.52	4718.27	-4194.85	2173.56	1790691.23	436880.04	39°41'51.885"N	80°07'54.936"W	4724.52	0.79
13027.00	90.400	147.710	7935.52	4813.25	-4276.79	2221.60	1790739.27	436798.10	39°41'51.078"N	80°07'54.315"W	4819.38	4.11
13122.00	90.520	146.310	7934.76	4908.14	-4356.46	2273.32	1790790.99	436718.43	39°41'50.294"N	80°07'53.646"W	4913.94	1.48
13216.00	90.830	148.870	7933.65	5002.06	-4435.81	2323.70	1790841.36	436639.09	39°41'49.514"N	80°07'52.994"W	5007.59	2.74
13312.00	91.050	152.760	7932.08	5098.01	-4519.59	2370.49	1790888.15	436555.31	39°41'48.689"N	80°07'52.388"W	5103.53	4.06
13407.00	90.990	152.970	7930.38	5192.85	-4604.13	2413.82	1790931.47	436470.78	39°41'47.856"N	80°07'51.826"W	5198.51	0.23
13502.00	91.170	151.650	7928.59	5287.73	-4688.23	2457.95	1790975.60	436386.68	39°41'47.028"N	80°07'51.254"W	5293.49	1.40
13597.00	91.450	151.690	7926.42	5382.65	-4771.83	2503.02	1791020.67	436303.09	39°41'46.205"N	80°07'50.670"W	5388.46	0.30
13691.00	91.390	151.940	7924.09	5476.55	-4854.66	2547.41	1791065.05	436220.27	39°41'45.390"N	80°07'50.095"W	5482.42	0.27
13787.00	91.140	152.090	7921.97	5572.45	-4939.41	2592.44	1791110.09	436135.52	39°41'44.555"N	80°07'49.511"W	5578.40	0.30
13881.00	90.890	152.850	7920.31	5666.32	-5022.75	2635.88	1791153.52	436052.18	39°41'43.735"N	80°07'48.948"W	5672.38	0.85
13976.00	90.710	150.440	7918.98	5761.24	-5106.34	2680.99	1791198.63	435968.60	39°41'42.912"N	80°07'48.363"W	5767.36	2.54
14071.00	90.090	148.840	7918.32	5856.24	-5188.31	2729.01	1791246.64	435886.63	39°41'42.105"N	80°07'47.741"W	5862.25	1.81
14166.00	90.250	150.190	7918.04	5951.24	-5270.17	2777.20	1791294.83	435804.77	39°41'41.299"N	80°07'47.118"W	5957.14	1.43
14261.00	90.150	148.890	7917.70	6046.23	-5352.06	2825.36	1791342.99	435722.89	39°41'40.493"N	80°07'46.494"W	6052.04	1.37
14357.00	90.430	150.070	7917.22	6142.23	-5434.76	2874.11	1791391.74	435640.20	39°41'39.680"N	80°07'45.863"W	6147.93	1.26

# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741MD  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC
Area	Monongalia County, WV
Field	Monongalia
Facility	Jenkins Pad
Slot	Slot #04
Well	Jenkins 4H
	Jenkins 4H AWB
	Wellbore

## WELLPATH DATA (197 stations)

MD	Inclination	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[ft]	[ft]	[US ft]	[US ft]	[ft]	[ft]	[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
14452.00	149.770	7916.22	6237.22	-5516.95	2921.74	1791439.36	435558.01	39°41'38.87"N	80°07'45.24"W	6242.86	152.095	0.49
14547.00	90.650	148.270	7915.05	6332.21	-5598.38	2970.65	1791488.27	435476.59	39°41'38.06"N	80°07'44.614"W	6337.71	152.048
14643.00	90.310	146.880	7914.24	6428.14	-5679.41	3022.12	1791539.73	435395.56	39°41'37.272"N	80°07'43.948"W	6433.42	151.982
14738.00	90.490	146.940	7913.58	6523.03	-5759.00	3073.98	1791591.60	435315.98	39°41'36.698"N	80°07'43.277"W	6528.05	151.908
14833.00	90.870	148.620	7912.87	6617.97	-5839.36	3124.63	1791642.24	435235.62	39°41'35.698"N	80°07'42.622"W	6622.80	151.849
14927.00	90.710	148.370	7911.98	6711.94	-5919.50	3173.75	1791691.36	435155.48	39°41'34.910"N	80°07'41.987"W	6716.64	151.802
15022.00	90.710	148.560	7910.80	6806.92	-6000.47	3223.43	1791741.04	435074.52	39°41'34.113"N	80°07'41.344"W	6811.47	151.755
15117.00	91.230	148.250	7909.19	6901.88	-6081.38	3273.20	1791790.80	434993.62	39°41'33.317"N	80°07'40.700"W	6906.30	151.709
15212.00	91.020	148.800	7907.33	6996.84	-6162.38	3322.79	1791840.39	434912.62	39°41'32.520"N	80°07'40.058"W	7001.13	151.666
15306.00	91.630	149.480	7905.16	7090.81	-6243.05	3370.99	1791888.59	434831.96	39°41'31.726"N	80°07'39.435"W	7095.02	151.633
15400.00	90.890	150.240	7903.09	7184.79	-6324.32	3418.18	1791935.77	434750.69	39°41'30.926"N	80°07'38.824"W	7188.95	151.610
15495.00	90.550	148.910	7901.89	7279.78	-6406.23	3466.28	1791983.87	434668.78	39°41'30.120"N	80°07'38.201"W	7283.88	151.583
15590.00	90.090	148.320	7901.36	7374.76	-6487.33	3515.76	1792033.34	434587.69	39°41'29.322"N	80°07'37.561"W	7378.75	151.545
15685.00	90.990	150.260	7900.47	7469.75	-6569.00	3564.27	1792081.85	434506.03	39°41'28.518"N	80°07'36.933"W	7473.67	151.516
15780.00	91.200	151.570	7898.65	7564.71	-6652.00	3610.44	1792128.02	434423.03	39°41'27.701"N	80°07'36.335"W	7568.64	151.509
15875.00	91.540	151.120	7896.38	7659.64	-6735.34	3655.98	1792173.56	434339.69	39°41'26.880"N	80°07'35.745"W	7663.62	151.507
15970.00	91.450	147.900	7893.90	7754.59	-6817.17	3704.16	1792221.74	434257.87	39°41'26.075"N	80°07'35.121"W	7758.52	151.482
16065.00	91.570	147.940	7891.40	7849.51	-6897.63	3754.60	1792272.17	434177.41	39°41'25.283"N	80°07'34.469"W	7853.30	151.439
16161.00	90.920	147.330	7889.31	7945.43	-6978.70	3805.97	1792323.54	434096.35	39°41'24.486"N	80°07'33.805"W	7949.07	151.393
16256.00	89.720	152.190	7888.78	8040.40	-7060.75	3853.80	1792371.37	434014.31	39°41'23.678"N	80°07'33.186"W	8044.00	151.374
16351.00	89.970	152.190	7889.04	8135.31	-7144.77	3898.12	1792415.69	433930.29	39°41'22.851"N	80°07'32.611"W	8138.99	151.384
16446.00	89.450	149.970	7889.52	8230.27	-7227.92	3944.06	1792461.62	433847.15	39°41'22.032"N	80°07'32.016"W	8233.98	151.380
16541.00	89.080	148.280	7890.74	8325.25	-7309.45	3992.81	1792510.36	433765.62	39°41'21.230"N	80°07'31.385"W	8328.90	151.354
16636.00	88.920	152.020	7892.40	8420.22	-7391.82	4040.07	1792557.63	433683.26	39°41'20.419"N	80°07'30.773"W	8423.84	151.341
16731.00	88.680	148.520	7894.39	8515.18	-7474.28	4087.17	1792604.72	433600.80	39°41'19.607"N	80°07'30.164"W	8518.79	151.329
16826.00	88.250	148.000	7896.93	8610.12	-7555.04	4137.13	1792654.68	433520.04	39°41'18.813"N	80°07'29.517"W	8613.62	151.295
16922.00	89.630	149.530	7898.71	8706.08	-7637.11	4186.90	1792704.44	433437.98	39°41'18.005"N	80°07'28.873"W	8709.51	151.267
17016.00	89.910	151.970	7899.09	8800.06	-7719.12	4232.82	1792750.37	433355.98	39°41'17.198"N	80°07'28.279"W	8803.50	151.262
17112.00	89.820	151.620	7899.31	8895.99	-7803.72	4278.19	1792795.74	433271.38	39°41'16.365"N	80°07'27.691"W	8899.49	151.267
17207.00	90.030	152.220	7899.44	8990.92	-7887.53	4322.91	1792840.45	433187.57	39°41'15.540"N	80°07'27.111"W	8994.49	151.274



# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741MD

## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC
Area	Monongalia County, WV
Field	Monongalia
Facility	Jenkins Pad
Well	Jenkins 4H
Wellbore	Jenkins 4H AWB
Slot	Slot #04

## WELLPATH DATA (197 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
17302.00	90.250	151.610	7899.20	9085.84	-7971.35	4367.63	1792885.17	433103.76	39°41'14.71"N	80°07'26.53"W	9089.48	151.281	0.68	0.23	-0.64
17396.00	89.970	150.470	7899.02	9179.81	-8053.59	4413.15	1792930.68	433021.52	39°41'13.90"N	80°07'25.94"W	9183.48	151.278	1.25	-0.30	-1.21
17492.00	90.000	148.540	7899.05	9275.81	-8136.31	4461.86	1792979.39	432938.81	39°41'13.09"N	80°07'25.31"W	9279.43	151.260	2.01	0.03	-2.01
17587.00	90.220	149.370	7898.87	9370.80	-8217.70	4510.85	1793028.38	432857.42	39°41'12.290"N	80°07'24.67"W	9374.35	151.237	0.90	0.23	0.87
17681.00	89.880	149.640	7898.79	9464.80	-8298.70	4558.56	1793076.08	432776.43	39°41'11.492"N	80°07'24.061"W	9468.31	151.220	0.46	-0.36	0.29
17776.00	90.000	148.660	7898.88	9559.79	-8380.26	4607.27	1793124.79	432694.88	39°41'10.690"N	80°07'23.430"W	9563.24	151.199	1.04	0.13	-1.03
17871.00	90.620	147.120	7898.37	9654.74	-8460.72	4657.76	1793175.28	432614.42	39°41'09.898"N	80°07'22.777"W	9658.08	151.166	1.75	0.65	-1.62
17966.00	90.400	150.570	7897.52	9749.72	-8542.00	4706.90	1793224.42	432533.14	39°41'09.098"N	80°07'22.142"W	9752.99	151.144	3.64	-0.23	3.63
18061.00	89.850	152.210	7897.32	9844.67	-8625.40	4752.39	1793269.91	432449.75	39°41'08.277"N	80°07'21.552"W	9847.98	151.146	1.82	-0.58	1.73
18156.00	90.370	151.390	7897.13	9939.60	-8709.12	4797.28	1793314.80	432366.03	39°41'07.453"N	80°07'20.971"W	9942.97	151.153	1.02	0.55	-0.86
18252.00	90.980	151.910	7896.00	10035.54	-8793.60	4842.87	1793360.38	432281.56	39°41'06.621"N	80°07'20.380"W	10038.96	151.157	0.83	0.64	0.54
18347.00	91.080	150.260	7894.30	10130.49	-8876.74	4888.79	1793406.30	432198.42	39°41'05.802"N	80°07'19.785"W	10133.94	151.157	1.74	0.11	-1.74
18441.00	91.200	146.520	7892.43	10224.43	-8956.77	4938.04	1793455.54	432118.40	39°41'05.015"N	80°07'19.148"W	10227.80	151.131	3.98	0.13	-3.98
18534.00	91.200	145.810	7890.48	10317.24	-9034.00	4989.81	1793507.31	432041.18	39°41'04.255"N	80°07'18.479"W	10320.43	151.087	0.76	0.00	-0.76
18628.00	90.800	146.330	7888.84	10411.04	-9111.98	5042.27	1793559.77	431963.20	39°41'03.488"N	80°07'17.801"W	10414.06	151.041	0.70	-0.43	0.55
18716.00	91.110	142.830	7887.37	10498.66	-9183.67	5093.26	1793610.75	431891.51	39°41'02.783"N	80°07'17.143"W	10501.48	150.987	3.99	0.35	-3.98
18741.00	91.110	142.830	7886.89	10523.48	-9203.59	5108.36	1793625.85	431871.59	39°41'02.587"N	80°07'16.948"W	10526.22	150.968	0.00	0.00	0.00

## HOLE & CASING SECTIONS - Ref Wellbore: Jenkins 4H AWB Ref Wellpath: Jenkins 4H AWP Proj: 18741MD

String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start EW	End N/S	End EW
9.625in Casing	25.00	2275.00	2250.00	25.00	2274.97	0.00	0.00	-2.40	3.51
8.75in Open Hole	2275.00	6200.00	3925.00	2274.97	6199.51	-2.40	3.51	-25.84	21.48
8.5in Open Hole	6200.00	18741.00	12541.00	6199.51	7886.89	-25.84	21.48	-9203.59	5108.36

# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741MD  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot #04
Area	Monongalia County, WV	Well	Jenkins 4H
Field	Monongalia	Wellbore	Jenkins 4H AWB
Facility	Jenkins Pad		

TARGETS									
Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	
Jenkins 4H BHL Rev-3	7975.00	-9209.03	5099.42	1793616.91	431866.16	39°41'02.533"N	80°07'17.062"W	point	
Jenkins 4H LP Rev-3	7975.00	-267.85	-133.27	1788384.54	440806.80	39°42'30.532"N	80°08'24.806"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Jenkins 4H AWB				Ref Wellpath: Jenkins 4H AWP Proj: 18741MD				
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	
25.00	6110.00	BHI Generic gyro - northseeking (Standard)	01 Javins Gyro <8-3/4"> (110'-6110')	Jenkins 4H AWB	6110.00	BHI AutoTrak Curve (Short)	02 BH AT Curve <8-1/2"> (6110')(6188'-18716')	Jenkins 4H AWB
6110.00	18741.00	Blind Drilling (std)	Projection to bit	Jenkins 4H AWB	18741.00			Jenkins 4H AWB

# Actual Wellpath Report

Jenkins 4H AWP Proj: 18741 MD  
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REFERENCE WELLPATH IDENTIFICATION		
Operator	NORTHEAST NATURAL ENERGY, LLC	Slot
Area	Monongalia County, WV	Well
Field	Monongalia	Wellbore
Facility	Jenkins Pad	Jenkins 4H AWP
		Slot #04

COMMENTS
Wellpath general comments API: 47-061-01742-0000 Job #: 8977328 Rig: Patterson 334 Duration: 02/03/2018 - 02/10/2018