

NORTHEAST NATURAL ENERGY, LLC

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

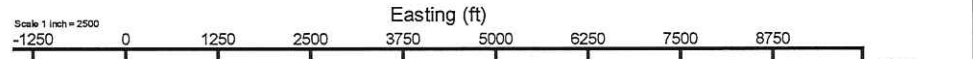
Slot: Slot 06
 Well: Yost 6H
 Wellbore: Yost 6H PWB

Well Information (Refer to 1101 for PWB Rev-A.0)	Well System: (N005) / Lambert True / Original OP / Northern Zone (N005) US Feet
Top vertical depth as referenced to Patterson 277 (ft)	North Reference: Grid North
Projected vertical depth as referenced to Patterson 277 (ft)	Scale: True Survey
Reference 277 (ft) to Mean Sea Level (ft)	Commodity: gas (as determined by test)
Mean Sea Level (ft) to Ground Level (ft) (Slot 06)	Current well line
Current wellbore (ft) as referenced to each depth default MD datum	Created by: mmonahan on 2022/04/15 Date: 15:41:00 EASTERN (US) Day

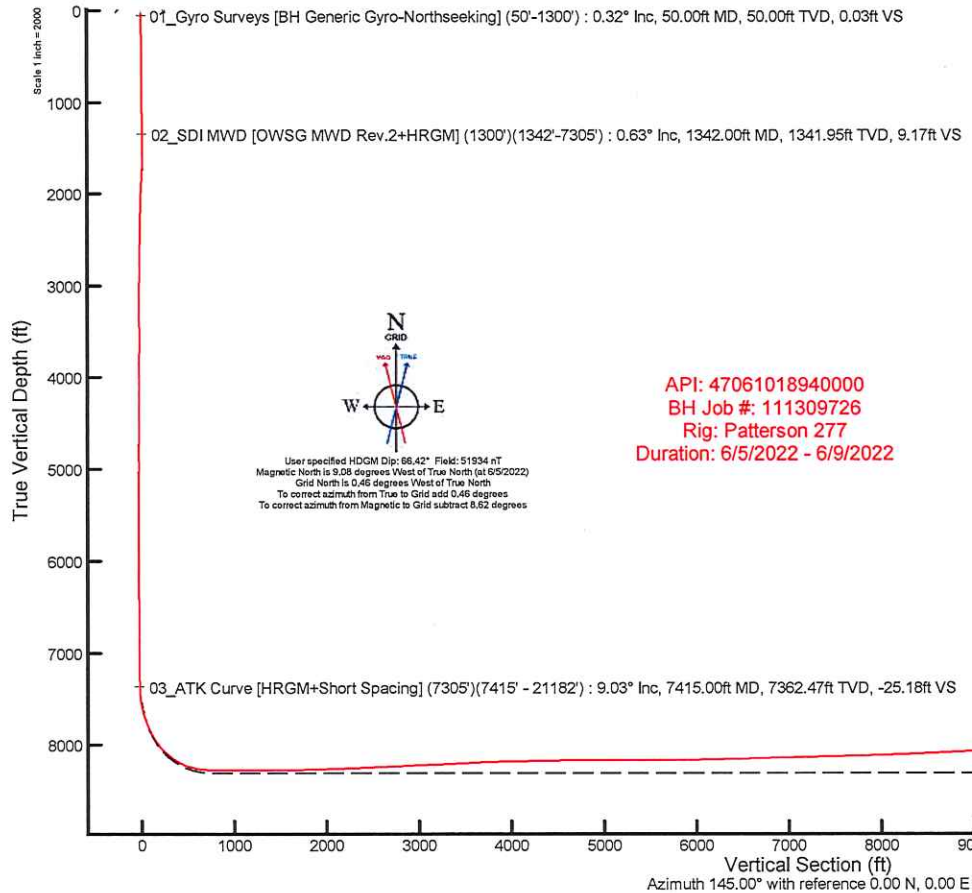
Location Information				
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude
Yost Pad	416924.720	416924.100	39°38'30.2737"N	80°13'1.2071"W
Slot	Local E (ft)	Local N (ft)	Local E (ft)	Local N (ft)
Slot 06	-43.20	-29.99	1766254.720	416704.300
Patterson 277 (RKB) to Ground level (At Slot: Slot 06)	28ft			
Mean Sea Level to Ground level (At Slot: Slot 06)	-1492ft			
Patterson 277 (RKB) to Mean Sea Level	1520ft			

Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local E (ft)	Local N (ft)
Tie On	7305.00	9.740	232.490	7253.94	-398.35	-615.22
Projection	7382.00	9.740	232.490	7329.83	-406.29	-625.55
Build/Turn	8000.85	28.385	165.877	7917.11	-583.86	-631.28
Landing Pt	8796.21	90.000	145.000	8308.00	-1152.66	-324.90
BHL	21224.34	90.000	145.000	8308.00	-11333.19	6803.58
					6803.58	0.00
						13185.98

Well Data			
Slot	Well	Wellbore	Wellpath
Slot 06	Yost 6H	Yost 6H AWP	Yost 6H AWP Proj: 21207
Slot 06	Yost 6H	Yost 6H PWB	Yost 6H PWP Rev-A.0



01_Gyro Surveys [BH Generic Gyro-Northseeking] (50'-1300') : 50.00ft TVD, 0.05ft S, 0.03ft W
 02_SDI MWD [OWSG MWD Rev.2+HRGM] (1300')(1342'-7305') : 1341.95ft TVD, 6.88ft S, 6.17ft E
 03_ATK Curve [HRGM+Short Spacing] (7305')(7415' - 21182') : 7362.47ft TVD, 409.74ft S, 629.07ft W



Yost Hardline #3 (1,31,21)



Actual Wellpath Report

Yost 6H AWP Proj: 21207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Manajohj
Scale	0.999941	Report Generated	6/15/2022 at 11:21:52 PM
Convergence at slot	0.46° West	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	40.20	-29.98	1766254.72	416704.30	39°38'30.6687"N	80°13'5.5081"W
Facility Reference Pt			1766284.70	416664.10	39°38'30.2737"N	80°13'5.1207"W
Field Reference Pt			1777685.71	440640.65	39°42'28.1140"N	80°10'41.6900"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 277 (RKB) to Facility Vertical Datum	1520.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1520.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot 06)	28.00ft
MD Reference Pt	Patterson 277 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	145.00°



Actual Wellpath Report

Yost 6H AWP Proj: 21207'

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Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

WELLPATH DATA (238 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]
0.00†	0.000	208.400	0.00	0.00	0.00	0.00	1766254.72	416704.30	39°38'30.6687"N	80°13'5.5081"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	208.400	28.00	0.00	0.00	0.00	1766254.72	416704.30	39°38'30.6687"N	80°13'5.5081"W	0.00	0.000	0.00	0.00	0.00
50.00	0.320	208.400	50.00	0.03	-0.05	-0.03	1766254.69	416704.25	39°38'30.6681"N	80°13'5.5085"W	0.06	208.400	1.45	1.45	0.00
100.00	0.150	282.500	100.00	0.04	-0.16	-0.16	1766254.56	416704.14	39°38'30.6670"N	80°13'5.5101"W	0.23	224.436	0.63	-0.34	148.20
150.00	0.350	200.700	150.00	0.08	-0.29	-0.28	1766254.44	416704.01	39°38'30.6658"N	80°13'5.5116"W	0.40	223.592	0.72	0.40	-163.60
200.00	0.090	105.500	200.00	0.20	-0.44	-0.29	1766254.43	416703.86	39°38'30.6642"N	80°13'5.5118"W	0.53	213.427	0.74	-0.52	-190.40
250.00	0.470	117.000	250.00	0.41	-0.55	-0.07	1766254.65	416703.75	39°38'30.6632"N	80°13'5.5090"W	0.55	187.581	0.76	0.76	23.00
300.00	0.390	107.800	300.00	0.72	-0.69	0.27	1766254.99	416703.61	39°38'30.6618"N	80°13'5.5045"W	0.74	158.600	0.21	-0.16	-18.40
350.00	0.200	123.400	350.00	0.94	-0.79	0.51	1766255.23	416703.51	39°38'30.6608"N	80°13'5.5015"W	0.94	147.443	0.41	-0.38	31.20
400.00	0.200	127.900	400.00	1.11	-0.90	0.65	1766255.37	416703.40	39°38'30.6599"N	80°13'5.4997"W	1.11	144.085	0.03	0.00	9.00
450.00	0.740	140.300	449.99	1.51	-1.20	0.92	1766255.64	416703.10	39°38'30.6569"N	80°13'5.4962"W	1.51	142.355	1.09	1.08	24.80
500.00	0.590	113.300	499.99	2.05	-1.55	1.37	1766256.09	416702.75	39°38'30.6535"N	80°13'5.4905"W	2.06	138.561	0.69	-0.30	-54.00
550.00	0.530	110.000	549.99	2.46	-1.73	1.82	1766256.54	416702.57	39°38'30.6517"N	80°13'5.4846"W	2.51	133.522	0.14	-0.12	-6.60
600.00	0.610	119.200	599.99	2.89	-1.94	2.27	1766256.99	416702.36	39°38'30.6497"N	80°13'5.4789"W	2.98	130.485	0.24	0.16	18.40
650.00	0.370	130.500	649.98	3.28	-2.17	2.62	1766257.34	416702.13	39°38'30.6474"N	80°13'5.4743"W	3.41	129.609	0.52	-0.48	22.60
700.00	0.810	130.200	699.98	3.78	-2.50	3.02	1766257.74	416701.80	39°38'30.6441"N	80°13'5.4693"W	3.92	129.699	0.88	0.88	-0.60
750.00	0.540	127.900	749.98	4.35	-2.88	3.47	1766258.19	416701.42	39°38'30.6405"N	80°13'5.4634"W	4.51	129.644	0.54	-0.54	-4.60
800.00	0.340	124.800	799.98	4.71	-3.11	3.78	1766258.50	416701.19	39°38'30.6382"N	80°13'5.4594"W	4.89	129.414	0.40	-0.40	-6.20
850.00	0.840	129.300	849.97	5.21	-3.42	4.19	1766258.91	416700.88	39°38'30.6351"N	80°13'5.4542"W	5.41	129.280	1.00	1.00	9.00
900.00	0.370	140.100	899.97	5.72	-3.78	4.57	1766259.29	416700.52	39°38'30.6317"N	80°13'5.4492"W	5.93	129.574	0.96	-0.94	21.60
950.00	0.430	130.800	949.97	6.06	-4.03	4.82	1766259.54	416700.27	39°38'30.6292"N	80°13'5.4461"W	6.28	129.879	0.18	0.12	-18.60
1000.00	0.350	136.600	999.97	6.40	-4.26	5.07	1766259.79	416700.04	39°38'30.6270"N	80°13'5.4429"W	6.62	130.060	0.18	-0.16	11.60
1050.00	0.370	127.700	1049.97	6.70	-4.47	5.30	1766260.02	416699.83	39°38'30.6249"N	80°13'5.4399"W	6.93	130.149	0.12	0.04	-17.80
1100.00	0.380	141.300	1099.97	7.02	-4.70	5.53	1766260.25	416699.60	39°38'30.6227"N	80°13'5.4369"W	7.26	130.348	0.18	0.02	27.20
1150.00	0.460	172.000	1149.96	7.36	-5.03	5.66	1766260.38	416699.27	39°38'30.6194"N	80°13'5.4352"W	7.57	131.596	0.47	0.16	61.40
1200.00	0.680	166.900	1199.96	7.82	-5.51	5.76	1766260.48	416698.79	39°38'30.6146"N	80°13'5.4339"W	7.97	133.764	0.45	0.44	-10.20
1250.00	0.630	164.800	1249.96	8.35	-6.07	5.90	1766260.62	416698.23	39°38'30.6092"N	80°13'5.4321"W	8.46	135.822	0.11	-0.10	-4.20
1300.00	0.470	173.000	1299.96	8.79	-6.54	5.99	1766260.71	416697.76	39°38'30.6045"N	80°13'5.4308"W	8.87	137.483	0.36	-0.32	16.40
1342.00	0.630	138.100	1341.95	9.17	-6.88	6.17	1766260.89	416697.42	39°38'30.6012"N	80°13'5.4285"W	9.24	138.119	0.87	0.38	-83.10
1498.00	0.360	213.760	1497.95	10.20	-7.93	6.47	1766261.19	416696.38	39°38'30.5908"N	80°13'5.4246"W	10.23	140.778	0.41	-0.17	48.50



Actual Wellpath Report

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

WELLPATH DATA (238 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]
1591.00	1.270	248.060	1590.94	10.08	-8.55	5.35	1766260.07	416695.75	39°38'30.5845"N	80°13'5.4388"W	10.09	147.972	1.07	0.98	36.88
1687.00	2.720	269.120	1686.88	8.56	-8.99	2.09	1766256.81	416695.31	39°38'30.5800"N	80°13'5.4805"W	9.22	166.931	1.67	1.51	21.94
1782.00	3.740	277.260	1781.73	5.21	-8.63	-3.24	1766251.48	416695.67	39°38'30.5831"N	80°13'5.5486"W	9.22	200.589	1.17	1.07	8.57
1877.00	5.060	279.710	1876.45	0.18	-7.53	-10.44	1766244.28	416696.77	39°38'30.5934"N	80°13'5.6408"W	12.88	234.208	1.40	1.39	2.58
1971.00	5.320	269.790	1970.06	-5.22	-6.85	-18.89	1766235.83	416697.45	39°38'30.5995"N	80°13'5.7488"W	20.09	250.073	0.99	0.28	-10.55
2065.00	5.340	258.930	2063.66	-9.49	-7.70	-27.54	1766227.18	416696.60	39°38'30.5903"N	80°13'5.8593"W	28.60	254.372	1.07	0.02	-11.55
2160.00	4.810	244.840	2158.29	-11.96	-10.25	-35.48	1766219.24	416694.05	39°38'30.5646"N	80°13'5.9606"W	36.93	253.894	1.42	-0.56	-14.83
2258.00	4.040	245.990	2256.00	-13.32	-13.40	-42.36	1766212.37	416690.90	39°38'30.5329"N	80°13'6.0481"W	44.42	252.448	0.79	-0.79	1.17
2353.00	3.810	250.640	2350.77	-14.81	-15.81	-48.39	1766206.33	416688.50	39°38'30.5086"N	80°13'6.1250"W	50.91	251.912	0.41	-0.24	4.89
2448.00	4.530	251.570	2445.52	-16.73	-18.04	-54.93	1766199.80	416686.26	39°38'30.4861"N	80°13'6.2084"W	57.81	251.820	0.76	0.76	0.98
2543.00	4.880	252.450	2540.20	-19.01	-20.44	-62.34	1766192.38	416683.86	39°38'30.4617"N	80°13'6.3029"W	65.61	251.845	0.38	0.37	0.93
2638.00	6.030	250.130	2634.77	-21.53	-23.36	-70.89	1766183.84	416680.94	39°38'30.4322"N	80°13'6.4118"W	74.63	251.763	1.23	1.21	-2.44
2743.00	7.100	239.940	2739.08	-23.52	-28.48	-81.69	1766173.04	416675.82	39°38'30.3807"N	80°13'6.5494"W	86.51	250.778	1.50	1.02	-9.70
2836.00	6.790	242.150	2831.40	-24.70	-33.93	-91.52	1766163.20	416670.37	39°38'30.3261"N	80°13'6.6745"W	97.61	249.660	0.44	-0.33	2.38
2931.00	7.410	238.990	2925.67	-25.83	-39.71	-101.74	1766152.99	416664.59	39°38'30.2682"N	80°13'6.8045"W	109.22	248.680	0.77	0.65	-3.33
3026.00	7.810	236.620	3019.84	-26.44	-46.42	-112.38	1766142.35	416657.89	39°38'30.2011"N	80°13'6.9399"W	121.59	247.558	0.54	0.42	-2.49
3121.00	8.490	236.210	3113.88	-26.77	-53.87	-123.60	1766131.13	416650.44	39°38'30.1265"N	80°13'7.0825"W	134.83	246.451	0.72	0.72	-0.43
3214.00	8.430	233.900	3205.86	-26.78	-61.70	-134.81	1766119.92	416642.60	39°38'30.0482"N	80°13'7.2250"W	148.26	245.407	0.37	-0.06	-2.48
3309.00	7.790	235.450	3299.91	-26.70	-69.46	-145.74	1766108.99	416634.85	39°38'29.9707"N	80°13'7.3640"W	161.45	244.519	0.71	-0.67	1.63
3404.00	7.880	233.770	3394.03	-26.61	-76.96	-156.30	1766098.43	416627.35	39°38'29.8958"N	80°13'7.4981"W	174.22	243.786	0.26	0.09	-1.77
3502.00	7.930	227.190	3491.10	-25.55	-85.52	-166.68	1766088.05	416618.78	39°38'29.8103"N	80°13'7.6299"W	187.34	242.838	0.92	0.05	-6.71
3597.00	7.600	234.490	3585.23	-24.60	-93.62	-176.60	1766078.13	416610.68	39°38'29.7294"N	80°13'7.7559"W	199.88	242.070	1.09	-0.35	7.68
3691.00	7.600	241.600	3678.41	-25.26	-100.19	-187.13	1766067.61	416604.11	39°38'29.6637"N	80°13'7.8898"W	212.26	241.834	1.00	0.00	7.56
3786.00	8.190	238.800	3772.51	-26.43	-106.68	-198.44	1766056.29	416597.62	39°38'29.5986"N	80°13'8.0338"W	225.30	241.737	0.74	0.62	-2.95
3881.00	6.840	240.630	3866.69	-27.43	-112.96	-209.16	1766045.57	416591.34	39°38'29.5357"N	80°13'8.1701"W	237.72	241.627	1.44	-1.42	1.93
3975.00	6.570	235.420	3960.05	-28.02	-118.76	-218.46	1766036.27	416585.54	39°38'29.4777"N	80°13'8.2885"W	248.66	241.471	0.71	-0.29	-5.54
4071.00	7.940	239.700	4055.28	-28.61	-125.22	-228.71	1766026.02	416579.08	39°38'29.4130"N	80°13'8.4188"W	260.75	241.298	1.53	1.43	4.46
4166.00	8.400	235.630	4149.31	-29.22	-132.45	-240.10	1766014.63	416571.86	39°38'29.3407"N	80°13'8.5637"W	274.22	241.117	0.78	0.48	-4.28
4260.00	8.250	233.970	4242.32	-29.17	-140.30	-251.23	1766003.51	416564.01	39°38'29.2623"N	80°13'8.7051"W	287.75	240.819	0.30	-0.16	-1.77
4358.00	8.620	229.900	4339.26	-28.39	-149.16	-262.53	1765992.21	416555.15	39°38'29.1738"N	80°13'8.8487"W	301.95	240.396	0.72	0.38	-4.15



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

WELLPATH DATA (238 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]
4453.00	8.180	235.300	4433.24	-27.80	-157.60	-273.53	1765981.20	416546.71	39°38'29.0896"N	80°13'8.9884"W	315.68	240.052	0.95	-0.46	5.68
4548.00	7.710	245.390	4527.34	-28.98	-164.10	-284.88	1765969.85	416540.21	39°38'29.0244"N	80°13'9.1329"W	328.76	240.057	1.55	-0.49	10.62
4642.00	7.910	245.120	4620.46	-31.26	-169.44	-296.48	1765958.25	416534.87	39°38'28.9707"N	80°13'9.2806"W	341.49	240.251	0.22	0.21	-0.29
4736.00	8.230	237.510	4713.54	-32.69	-175.78	-308.03	1765946.71	416528.53	39°38'28.9071"N	80°13'9.4275"W	354.65	240.288	1.19	0.34	-8.10
4831.00	8.290	236.110	4807.55	-33.12	-183.25	-319.45	1765935.29	416521.06	39°38'28.8324"N	80°13'9.5727"W	368.28	240.159	0.22	0.06	-1.47
4926.00	8.520	232.160	4901.53	-32.90	-191.39	-330.69	1765924.05	416512.92	39°38'28.7511"N	80°13'9.7156"W	382.08	239.940	0.65	0.24	-4.16
5021.00	7.630	236.160	4995.59	-32.68	-199.22	-341.49	1765913.25	416505.10	39°38'28.6729"N	80°13'9.8528"W	395.35	239.742	1.11	-0.94	4.21
5119.00	7.550	238.000	5092.73	-33.15	-206.25	-352.35	1765902.39	416498.06	39°38'28.6025"N	80°13'9.9910"W	408.28	239.657	0.26	-0.08	1.88
5214.00	7.540	232.240	5186.91	-33.18	-213.38	-362.57	1765892.17	416490.94	39°38'28.5313"N	80°13'10.1209"W	420.70	239.523	0.80	-0.01	-6.06
5308.00	6.620	239.200	5280.19	-33.27	-219.93	-372.10	1765882.64	416484.39	39°38'28.4658"N	80°13'10.2420"W	432.23	239.415	1.34	-0.98	7.40
5403.00	6.620	238.040	5374.56	-33.97	-225.63	-381.45	1765873.29	416478.68	39°38'28.4087"N	80°13'10.3609"W	443.18	239.396	0.14	0.00	-1.22
5498.00	6.690	233.150	5468.92	-34.08	-231.85	-390.52	1765864.22	416472.47	39°38'28.3465"N	80°13'10.4763"W	454.16	239.303	0.60	0.07	-5.15
5594.00	7.400	233.930	5564.20	-33.78	-238.84	-400.00	1765854.75	416465.47	39°38'28.2767"N	80°13'10.5967"W	465.88	239.158	0.75	0.74	0.81
5688.00	8.030	239.740	5657.35	-34.21	-245.71	-410.56	1765844.18	416458.60	39°38'28.2079"N	80°13'10.7310"W	478.47	239.100	1.07	0.67	6.18
5783.00	8.250	239.400	5751.39	-35.28	-252.53	-422.16	1765832.59	416451.79	39°38'28.1396"N	80°13'10.8785"W	491.92	239.113	0.24	0.23	-0.36
5877.00	8.840	234.800	5844.35	-35.78	-260.12	-433.87	1765820.88	416444.19	39°38'28.0636"N	80°13'11.0274"W	505.87	239.055	0.96	0.63	-4.89
5976.00	9.330	236.690	5942.10	-35.99	-268.91	-446.79	1765807.96	416435.40	39°38'27.9757"N	80°13'11.1917"W	521.47	238.957	0.58	0.49	1.91
6070.00	9.790	235.910	6034.80	-36.34	-277.58	-459.77	1765794.97	416426.74	39°38'27.8891"N	80°13'11.3568"W	537.07	238.879	0.51	0.49	-0.83
6165.00	9.640	230.090	6128.44	-35.78	-287.21	-472.56	1765782.18	416417.11	39°38'27.7929"N	80°13'11.5193"W	553.00	238.710	1.05	-0.16	-6.13
6259.00	9.310	234.530	6221.16	-35.05	-296.67	-484.79	1765769.96	416407.65	39°38'27.6984"N	80°13'11.6747"W	568.37	238.535	0.85	-0.35	4.72
6354.00	9.430	230.210	6314.89	-34.34	-306.11	-497.03	1765757.72	416398.21	39°38'27.6042"N	80°13'11.8302"W	583.73	238.372	0.75	0.13	-4.55
6449.00	9.290	230.060	6408.63	-33.03	-316.01	-508.89	1765745.86	416388.31	39°38'27.5054"N	80°13'11.9807"W	599.03	238.160	0.15	-0.15	-0.16
6544.00	8.810	232.780	6502.44	-32.08	-325.34	-520.56	1765734.19	416378.98	39°38'27.4123"N	80°13'12.1290"W	613.87	237.996	0.68	-0.51	2.86
6638.00	8.990	235.860	6595.31	-31.91	-333.81	-532.38	1765722.38	416370.51	39°38'27.3276"N	80°13'12.2791"W	628.38	237.911	0.54	0.19	3.28
6737.00	9.240	235.400	6693.06	-32.09	-342.67	-545.32	1765709.43	416361.65	39°38'27.2391"N	80°13'12.4436"W	644.05	237.856	0.26	0.25	-0.46
6831.00	9.220	233.320	6785.84	-31.92	-351.45	-557.57	1765697.18	416352.87	39°38'27.1513"N	80°13'12.5993"W	659.09	237.776	0.36	-0.02	-2.21
7020.00	8.110	225.700	6972.69	-29.32	-369.81	-579.26	1765675.50	416334.51	39°38'26.9681"N	80°13'12.8747"W	687.24	237.445	0.84	-0.59	-4.03
7115.00	8.990	229.850	7066.63	-27.57	-379.27	-589.73	1765665.03	416325.05	39°38'26.8738"N	80°13'13.0075"W	701.16	237.253	1.13	0.93	4.37
7209.00	9.940	235.030	7159.36	-26.92	-388.66	-601.99	1765652.77	416315.66	39°38'26.7800"N	80°13'13.1633"W	716.55	237.153	1.36	1.01	5.51
7305.00	9.740	232.490	7253.94	-26.56	-398.35	-615.22	1765639.54	416305.97	39°38'26.6832"N	80°13'13.3314"W	732.93	237.077	0.50	-0.21	-2.65

REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

WELLPATH DATA (238 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]
7415.00	9.030	228.490	7362.47	-25.18	-409.74	-629.07	1765625.69	416294.58	39°38'26.5696"N	80°13'13.5073"W	750.74	236.922	0.88	-0.65	-3.64
7510.00	10.880	205.850	7456.07	-19.96	-422.76	-638.56	1765616.20	416281.57	39°38'26.4402"N	80°13'13.6273"W	765.82	236.494	4.52	1.95	-23.83
7605.00	13.470	190.390	7548.95	-7.82	-441.72	-644.47	1765610.29	416262.61	39°38'26.2523"N	80°13'13.7009"W	781.32	235.573	4.36	2.73	-16.27
7700.00	16.240	180.900	7640.78	10.72	-465.89	-646.68	1765608.08	416238.44	39°38'26.0133"N	80°13'13.7266"W	797.02	234.230	3.87	2.92	-9.99
7794.00	21.580	170.380	7729.70	37.01	-496.11	-643.99	1765610.77	416208.22	39°38'25.7149"N	80°13'13.6892"W	812.92	232.391	6.72	5.68	-11.19
7889.00	25.360	168.870	7816.83	71.41	-533.31	-637.14	1765617.62	416171.03	39°38'25.3478"N	80°13'13.5978"W	830.88	230.070	4.03	3.98	-1.59
7984.00	30.110	165.290	7900.90	112.39	-576.34	-627.16	1765627.60	416127.99	39°38'24.9232"N	80°13'13.4658"W	851.76	227.418	5.30	5.00	-3.77
8080.00	36.730	160.530	7980.99	162.70	-626.76	-611.45	1765643.30	416077.57	39°38'24.4262"N	80°13'13.2599"W	875.62	224.292	7.41	6.90	-4.96
8174.00	43.570	157.640	8052.81	221.47	-683.30	-589.73	1765665.02	416021.05	39°38'23.8692"N	80°13'12.9764"W	902.60	220.797	7.54	7.28	-3.07
8268.00	51.350	154.530	8116.32	289.39	-746.50	-561.58	1765693.18	415957.85	39°38'23.2469"N	80°13'12.6101"W	934.15	216.954	8.63	8.28	-3.31
8363.00	58.860	152.700	8170.63	366.38	-816.22	-526.93	1765727.83	415888.13	39°38'22.5606"N	80°13'12.1600"W	971.53	212.845	8.06	7.91	-1.93
8457.00	66.380	151.020	8213.83	449.19	-889.75	-487.55	1765767.20	415814.61	39°38'21.8370"N	80°13'11.6492"W	1014.57	208.721	8.16	8.00	-1.79
8551.00	74.460	149.130	8245.31	537.33	-966.42	-443.38	1765811.37	415737.94	39°38'21.0828"N	80°13'11.0767"W	1063.27	204.645	8.80	8.60	-2.01
8646.00	81.880	146.470	8264.77	630.13	-1045.02	-393.85	1765860.90	415659.34	39°38'20.3100"N	80°13'10.4355"W	1116.77	200.650	8.28	7.81	-2.80
8741.00	89.510	145.040	8271.90	724.78	-1123.27	-340.57	1765914.17	415581.10	39°38'19.5409"N	80°13'9.7465"W	1173.76	196.867	8.17	8.03	-1.51
8835.00	89.170	144.710	8272.98	818.78	-1200.14	-286.49	1765968.25	415504.23	39°38'18.7854"N	80°13'9.0474"W	1233.87	193.426	0.50	-0.36	-0.35
8930.00	89.050	145.380	8274.46	913.76	-1278.00	-232.07	1766022.66	415426.38	39°38'18.0203"N	80°13'8.3438"W	1298.90	190.292	0.72	-0.13	0.71
9024.00	89.320	145.170	8275.80	1007.75	-1355.25	-178.53	1766076.20	415349.14	39°38'17.2611"N	80°13'7.6516"W	1366.96	187.505	0.36	0.29	-0.22
9120.00	89.970	144.570	8276.39	1103.75	-1433.76	-123.29	1766131.44	415270.63	39°38'16.4896"N	80°13'6.9375"W	1439.05	184.915	0.92	0.68	-0.62
9215.00	90.000	145.060	8276.42	1198.75	-1511.40	-68.55	1766186.17	415192.99	39°38'15.7266"N	80°13'6.2298"W	1512.95	182.597	0.52	0.03	0.52
9309.00	89.660	144.680	8276.69	1292.75	-1588.28	-14.46	1766240.26	415116.12	39°38'14.9712"N	80°13'5.5306"W	1588.34	180.522	0.54	-0.36	-0.40
9403.00	91.170	145.020	8276.01	1386.74	-1665.13	39.66	1766294.37	415039.27	39°38'14.2159"N	80°13'4.8311"W	1665.60	178.636	1.65	1.61	0.36
9497.00	90.430	144.780	8274.70	1480.73	-1742.03	93.70	1766348.41	414962.38	39°38'13.4602"N	80°13'4.1324"W	1744.55	176.921	0.83	-0.79	-0.26
9591.00	90.590	144.000	8273.87	1574.72	-1818.45	148.43	1766403.14	414885.96	39°38'12.7093"N	80°13'3.4251"W	1824.50	175.334	0.85	0.17	-0.83
9686.00	90.650	144.380	8272.84	1669.71	-1895.49	204.01	1766458.72	414808.93	39°38'11.9524"N	80°13'2.7068"W	1906.43	173.857	0.40	0.06	0.40
9781.00	91.200	144.390	8271.30	1764.69	-1972.71	259.33	1766514.03	414731.72	39°38'11.1936"N	80°13'1.9919"W	1989.68	172.511	0.58	0.58	0.01
9876.00	91.230	144.800	8269.29	1859.66	-2050.12	314.35	1766569.05	414654.31	39°38'10.4329"N	80°13'1.2807"W	2074.08	171.283	0.43	0.03	0.43
9970.00	91.910	144.480	8266.71	1953.63	-2126.75	368.73	1766623.43	414577.68	39°38'9.6799"N	80°13'0.5778"W	2158.48	170.164	0.80	0.72	-0.34
10064.00	92.120	145.420	8263.41	2047.57	-2203.66	422.68	1766677.37	414500.78	39°38'8.9241"N	80°12'59.8804"W	2243.83	169.142	1.02	0.22	1.00
10158.00	92.090	144.420	8259.96	2141.50	-2280.53	476.67	1766731.36	414423.91	39°38'8.1687"N	80°12'59.1825"W	2329.81	168.194	1.06	-0.03	-1.06

Actual Wellpath Report

Yost 6H AWP Proj: 21207'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Yost 6H
Field	Monongalia		API/Legal	
Facility	Yost Pad		Wellbore	Yost 6H AWB
Slot	Slot 06			

WELLPATH DATA (238 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]	
10253.00	92.120	144.620	8256.47	2236.44	-2357.84	531.77	1766786.46	414346.61	39°38'7.4090"N	80°12'58.4704"W	2417.06	167.291	0.21	0.03	0.21	
10347.00	92.370	144.510	8252.78	2330.36	-2434.37	586.23	1766840.91	414270.08	39°38'6.6570"N	80°12'57.7665"W	2503.96	166.460	0.29	0.27	-0.12	
10441.00	92.620	144.440	8248.69	2424.27	-2510.80	640.79	1766895.47	414193.66	39°38'5.9059"N	80°12'57.0613"W	2591.28	165.683	0.28	0.27	-0.07	
10536.00	92.520	144.490	8244.43	2519.17	-2588.03	695.95	1766950.63	414116.43	39°38'5.1471"N	80°12'56.3484"W	2679.97	164.949	0.12	-0.11	0.05	
10630.00	92.490	144.430	8240.32	2613.07	-2664.44	750.54	1767005.21	414040.02	39°38'4.3962"N	80°12'55.6429"W	2768.13	164.268	0.07	-0.03	-0.06	
10723.00	92.460	144.150	8236.31	2705.98	-2739.88	804.77	1767059.44	413964.58	39°38'3.6548"N	80°12'54.9421"W	2855.63	163.631	0.30	-0.03	-0.30	
10819.00	92.680	144.070	8232.00	2801.87	-2817.58	860.99	1767115.66	413886.89	39°38'2.8914"N	80°12'54.2156"W	2946.20	163.008	0.24	0.23	-0.08	
10913.00	92.990	144.040	8227.35	2895.74	-2893.59	916.10	1767170.77	413810.89	39°38'2.1446"N	80°12'53.5035"W	3035.14	162.432	0.33	0.33	-0.03	
11008.00	92.830	144.460	8222.53	2990.61	-2970.59	971.54	1767226.20	413733.89	39°38'1.3880"N	80°12'52.7872"W	3125.42	161.890	0.47	-0.17	0.44	
11102.00	92.430	144.020	8218.22	3084.51	-3046.79	1026.41	1767281.07	413657.70	39°38'0.6393"N	80°12'52.0781"W	3215.03	161.382	0.63	-0.43	-0.47	
11197.00	92.190	144.360	8214.39	3179.42	-3123.76	1081.95	1767336.60	413580.73	39°37'59.8829"N	80°12'51.3604"W	3305.83	160.896	0.44	-0.25	0.36	
11292.00	92.710	145.380	8210.33	3274.33	-3201.39	1136.56	1767391.22	413503.11	39°37'59.1201"N	80°12'50.6544"W	3397.15	160.454	1.20	0.55	1.07	
11387.00	92.650	144.900	8205.89	3369.23	-3279.25	1190.80	1767445.45	413425.25	39°37'58.3548"N	80°12'49.9533"W	3488.77	160.042	0.51	-0.06	-0.51	
11482.00	92.650	145.680	8201.49	3464.12	-3357.26	1244.84	1767499.49	413347.24	39°37'57.5881"N	80°12'49.2547"W	3580.62	159.656	0.82	0.00	0.82	
11578.00	92.560	145.600	8197.13	3560.02	-3436.43	1298.97	1767553.61	413268.08	39°37'56.8100"N	80°12'48.5549"W	3673.74	159.293	0.13	-0.09	-0.08	
11673.00	94.040	145.150	8191.66	3654.85	-3514.47	1352.86	1767607.49	413190.04	39°37'56.0429"N	80°12'47.8582"W	3765.87	158.946	1.63	1.56	-0.47	
11768.00	91.660	145.540	8186.94	3749.73	-3592.52	1406.80	1767661.44	413112.00	39°37'55.2759"N	80°12'47.1608"W	3858.14	158.615	2.54	-2.51	0.41	
11863.00	90.710	145.990	8184.97	3844.70	-3671.04	1460.24	1767714.87	413033.49	39°37'54.5041"N	80°12'46.4699"W	3950.80	158.309	1.11	-1.00	0.47	
11959.00	90.370	144.690	8184.07	3940.69	-3750.00	1514.83	1767769.46	412954.53	39°37'53.7280"N	80°12'45.7642"W	4044.40	158.004	1.40	-0.35	-1.35	
12054.00	91.940	145.620	8182.15	4035.67	-3827.95	1569.10	1767823.72	412876.59	39°37'52.9620"N	80°12'45.0627"W	4137.06	157.711	1.92	1.65	0.98	
12150.00	91.570	143.970	8179.21	4131.62	-3906.35	1624.41	1767879.03	412798.19	39°37'52.1915"N	80°12'44.3478"W	4230.63	157.421	1.76	-0.39	-1.72	
12244.00	91.290	145.380	8176.87	4225.58	-3983.01	1678.75	1767933.36	412721.53	39°37'51.4381"N	80°12'43.6456"W	4322.34	157.146	1.53	-0.30	1.50	
12339.00	90.860	145.550	8175.09	4320.56	-4061.26	1732.59	1767987.21	412643.29	39°37'50.6690"N	80°12'42.9495"W	4415.39	156.896	0.49	-0.45	0.18	
12434.00	91.200	145.280	8173.38	4415.55	-4139.46	1786.51	1768041.12	412565.09	39°37'49.9004"N	80°12'42.2525"W	4508.52	156.656	0.46	0.36	-0.28	
12529.00	91.200	145.840	8171.39	4510.52	-4217.79	1840.22	1768094.83	412486.77	39°37'49.1305"N	80°12'41.5580"W	4601.76	156.428	0.59	0.00	0.59	
12624.00	90.460	145.260	8170.01	4605.50	-4296.12	1893.96	1768148.56	412408.44	39°37'48.3606"N	80°12'40.8634"W	4695.07	156.210	0.99	-0.78	-0.61	
12718.00	91.350	146.360	8168.53	4699.48	-4373.86	1946.77	1768201.37	412330.71	39°37'47.5964"N	80°12'40.1805"W	4787.55	156.007	1.51	0.95	1.17	
12813.00	90.620	144.800	8166.89	4794.46	-4452.21	2000.46	1768255.06	412252.36	39°37'46.8263"N	80°12'39.4864"W	4880.99	155.805	1.81	-0.77	-1.64	
12908.00	88.950	145.150	8167.25	4889.45	-4530.01	2054.98	1768309.58	412174.57	39°37'46.0618"N	80°12'38.7817"W	4974.33	155.599	1.80	-1.76	0.37	
13003.00	89.880	145.380	8168.22	4984.45	-4608.07	2109.11	1768363.70	412096.51	39°37'45.2945"N	80°12'38.0821"W	5067.81	155.406	1.01	0.98	0.24	

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

WELLPATH DATA (238 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]
13098.00	89.720	146.500	8168.55	5079.43	-4686.77	2162.31	1768416.90	412017.81	39°37'44.5209"N	80°12'37.3941"W	5161.54	155.233	1.19	-0.17	1.18
13193.00	89.450	145.060	8169.24	5174.42	-4765.32	2215.74	1768470.32	411939.27	39°37'43.7488"N	80°12'36.7034"W	5255.26	155.063	1.54	-0.28	-1.52
13287.00	90.090	146.160	8169.62	5268.41	-4842.89	2268.83	1768523.41	411861.71	39°37'42.9864"N	80°12'36.0171"W	5348.01	154.898	1.35	0.68	1.17
13381.00	90.000	146.130	8169.54	5362.39	-4920.95	2321.19	1768575.77	411783.65	39°37'42.2190"N	80°12'35.3399"W	5440.93	154.747	0.10	-0.10	-0.03
13476.00	90.030	145.760	8169.52	5457.38	-4999.66	2374.39	1768628.97	411704.95	39°37'41.4453"N	80°12'34.6521"W	5534.83	154.596	0.39	0.03	-0.39
13571.00	89.600	144.980	8169.83	5552.37	-5077.83	2428.38	1768682.95	411626.78	39°37'40.6770"N	80°12'33.9543"W	5628.62	154.441	0.94	-0.45	-0.82
13666.00	90.400	145.530	8169.83	5647.37	-5155.89	2482.52	1768737.09	411548.73	39°37'39.9098"N	80°12'33.2544"W	5722.42	154.290	1.02	0.84	0.58
13761.00	90.370	145.880	8169.19	5742.36	-5234.37	2536.05	1768790.61	411470.25	39°37'39.1384"N	80°12'32.5625"W	5816.37	154.150	0.37	-0.03	0.37
13856.00	90.580	145.510	8168.40	5837.35	-5312.84	2589.59	1768844.15	411391.78	39°37'38.3670"N	80°12'31.8703"W	5910.35	154.014	0.45	0.22	-0.39
13950.00	90.800	145.440	8167.27	5931.34	-5390.28	2642.86	1768897.42	411314.35	39°37'37.6059"N	80°12'31.1817"W	6003.32	153.881	0.25	0.23	-0.07
14045.00	91.660	145.990	8165.23	6026.31	-5468.76	2696.36	1768950.92	411235.88	39°37'36.8345"N	80°12'30.4900"W	6097.35	153.754	1.07	0.91	0.58
14140.00	91.350	145.040	8162.73	6121.27	-5547.03	2750.13	1769004.68	411157.60	39°37'36.0651"N	80°12'29.7950"W	6191.35	153.629	1.05	-0.33	-1.00
14234.00	91.600	145.360	8160.31	6215.24	-5624.20	2803.76	1769058.31	411080.45	39°37'35.3067"N	80°12'29.1018"W	6284.32	153.503	0.43	0.27	0.34
14328.00	91.480	145.540	8157.79	6309.21	-5701.59	2857.05	1769111.59	411003.06	39°37'34.5460"N	80°12'28.4130"W	6377.37	153.385	0.23	-0.13	0.19
14423.00	91.260	145.100	8155.52	6404.18	-5779.69	2911.09	1769165.63	410924.96	39°37'33.7784"N	80°12'27.7145"W	6471.42	153.267	0.52	-0.23	-0.46
14517.00	91.380	145.130	8153.35	6498.15	-5856.78	2964.83	1769219.37	410847.88	39°37'33.0207"N	80°12'27.0199"W	6564.46	153.150	0.13	0.13	0.03
14612.00	91.450	144.820	8151.00	6593.12	-5934.55	3019.34	1769273.88	410770.11	39°37'32.2564"N	80°12'26.3155"W	6658.48	153.034	0.33	0.07	-0.33
14705.00	91.940	145.660	8148.25	6686.08	-6010.92	3072.34	1769326.87	410693.75	39°37'31.5058"N	80°12'25.6305"W	6750.59	152.927	1.05	0.53	0.90
14799.00	92.000	145.790	8145.02	6780.02	-6088.55	3125.25	1769379.78	410616.12	39°37'30.7427"N	80°12'24.9465"W	6843.80	152.829	0.15	0.06	0.14
14893.00	91.260	145.550	8142.35	6873.97	-6166.14	3178.24	1769432.76	410538.53	39°37'29.9800"N	80°12'24.2615"W	6937.04	152.732	0.83	-0.79	-0.26
14988.00	91.290	144.900	8140.23	6968.95	-6244.16	3232.41	1769486.93	410460.53	39°37'29.2132"N	80°12'23.5614"W	7031.21	152.631	0.68	0.03	-0.68
15083.00	91.480	145.160	8137.94	7063.92	-6321.98	3286.84	1769541.36	410382.71	39°37'28.4483"N	80°12'22.8580"W	7125.36	152.530	0.34	0.20	0.27
15178.00	91.480	145.930	8135.48	7158.88	-6400.29	3340.57	1769595.08	410304.40	39°37'27.6786"N	80°12'22.1635"W	7219.63	152.438	0.81	0.00	0.81
15273.00	91.510	145.110	8133.01	7253.84	-6478.57	3394.33	1769648.84	410226.12	39°37'26.9092"N	80°12'21.4685"W	7313.92	152.349	0.86	0.03	-0.86
15368.00	91.200	144.980	8130.76	7348.82	-6556.41	3448.75	1769703.25	410148.29	39°37'26.1441"N	80°12'20.7654"W	7408.13	152.255	0.35	-0.33	-0.14
15463.00	91.480	145.310	8128.54	7443.79	-6634.35	3503.02	1769757.53	410070.36	39°37'25.3781"N	80°12'20.0639"W	7502.38	152.165	0.46	0.29	0.35
15557.00	91.540	145.810	8126.06	7537.75	-6711.84	3556.17	1769810.67	409992.87	39°37'24.6164"N	80°12'19.3770"W	7595.73	152.084	0.54	0.06	0.53
15652.00	91.320	145.420	8123.69	7632.72	-6790.22	3609.80	1769864.30	409914.50	39°37'23.8460"N	80°12'18.6837"W	7690.11	152.004	0.47	-0.23	-0.41
15746.00	91.290	145.450	8121.55	7726.69	-6867.61	3663.12	1769917.61	409837.11	39°37'23.0853"N	80°12'17.9946"W	7783.47	151.925	0.05	-0.03	0.03
15841.00	91.350	145.840	8119.36	7821.66	-6946.01	3716.71	1769971.20	409758.71	39°37'22.3146"N	80°12'17.3018"W	7877.88	151.849	0.42	0.06	0.41

Actual Wellpath Report

Yost 6H AWP Proj: 21207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

WELLPATH DATA (238 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]
15936.00	91.260	145.540	8117.20	7916.63	-7024.46	3770.25	1770024.74	409680.27	39°37'21.5435"N	80°12'16.6098"W	7972.32	151.776	0.33	-0.09	-0.32
16030.00	91.420	145.940	8115.00	8010.59	-7102.13	3823.15	1770077.64	409602.60	39°37'20.7800"N	80°12'15.9260"W	8065.78	151.706	0.46	0.17	0.43
16125.00	92.340	145.920	8111.88	8105.53	-7180.78	3876.34	1770130.82	409523.96	39°37'20.0068"N	80°12'15.2384"W	8160.25	151.639	0.97	0.97	-0.02
16220.00	92.120	145.430	8108.19	8200.45	-7259.18	3929.87	1770184.35	409445.57	39°37'19.2362"N	80°12'14.5465"W	8254.67	151.570	0.57	-0.23	-0.52
16314.00	92.090	145.490	8104.73	8294.38	-7336.56	3983.13	1770237.60	409368.19	39°37'18.4756"N	80°12'13.8581"W	8348.08	151.502	0.07	-0.03	0.06
16409.00	92.400	144.530	8101.01	8389.31	-7414.33	4037.56	1770292.03	409290.43	39°37'17.7113"N	80°12'13.1548"W	8442.40	151.429	1.06	0.33	-1.01
16504.00	92.560	144.620	8096.90	8484.22	-7491.67	4092.58	1770347.05	409213.09	39°37'16.9512"N	80°12'12.4440"W	8536.64	151.353	0.19	0.17	0.09
16598.00	92.280	144.810	8092.93	8578.13	-7568.33	4146.83	1770401.29	409136.43	39°37'16.1978"N	80°12'11.7431"W	8629.93	151.281	0.36	-0.30	0.20
16692.00	92.530	144.370	8088.99	8672.05	-7644.87	4201.24	1770455.71	409059.89	39°37'15.4455"N	80°12'11.0400"W	8723.22	151.209	0.54	0.27	-0.47
16786.00	92.950	144.330	8084.49	8765.93	-7721.17	4255.97	1770510.43	408983.60	39°37'14.6957"N	80°12'10.3331"W	8816.45	151.136	0.45	0.45	-0.04
16881.00	92.620	144.730	8079.88	8860.82	-7798.45	4311.03	1770565.48	408906.33	39°37'13.9363"N	80°12'9.6217"W	8910.71	151.066	0.55	-0.35	0.42
16976.00	92.890	144.900	8075.31	8955.71	-7876.00	4365.71	1770620.16	408828.78	39°37'13.1741"N	80°12'8.9153"W	9005.04	151.000	0.34	0.28	0.18
17070.00	92.990	145.330	8070.49	9049.58	-7953.01	4419.40	1770673.85	408751.78	39°37'12.4172"N	80°12'8.2215"W	9098.43	150.940	0.47	0.11	0.46
17164.00	91.480	144.550	8066.82	9143.51	-8029.89	4473.35	1770727.80	408674.90	39°37'11.6616"N	80°12'7.5243"W	9191.84	150.878	1.81	-1.61	-0.83
17259.00	91.140	145.040	8064.65	9238.48	-8107.49	4528.10	1770782.55	408597.30	39°37'10.8989"N	80°12'6.8169"W	9286.29	150.816	0.63	-0.36	0.52
17354.00	91.750	144.360	8062.26	9333.45	-8185.00	4582.98	1770837.42	408519.80	39°37'10.1371"N	80°12'6.1079"W	9380.72	150.754	0.96	0.64	-0.72
17450.00	91.320	144.910	8059.69	9429.41	-8263.26	4638.52	1770892.96	408441.55	39°37'9.3680"N	80°12'5.3904"W	9476.15	150.693	0.73	-0.45	0.57
17545.00	91.450	144.630	8057.39	9524.39	-8340.84	4693.31	1770947.74	408363.97	39°37'8.6056"N	80°12'4.6825"W	9570.62	150.634	0.32	0.14	-0.29
17640.00	91.600	144.890	8054.86	9619.35	-8418.40	4748.11	1771002.54	408286.42	39°37'7.8433"N	80°12'3.9746"W	9665.09	150.576	0.32	0.16	0.27
17735.00	91.260	144.100	8052.49	9714.32	-8495.71	4803.26	1771057.69	408209.11	39°37'7.0835"N	80°12'3.2621"W	9759.53	150.517	0.91	-0.36	-0.83
17829.00	91.420	144.470	8050.29	9808.28	-8572.01	4858.12	1771112.54	408132.81	39°37'6.3337"N	80°12'2.5535"W	9852.95	150.458	0.43	0.17	0.39
17925.00	91.660	144.900	8047.71	9904.25	-8650.32	4913.59	1771168.01	408054.51	39°37'5.5641"N	80°12'1.8368"W	9948.44	150.402	0.51	0.25	0.45
18019.00	91.380	144.370	8045.22	9998.21	-8726.95	4967.98	1771222.40	407977.89	39°37'4.8110"N	80°12'1.1342"W	10041.93	150.348	0.64	-0.30	-0.56
18113.00	91.260	144.570	8043.05	10092.18	-8803.42	5022.59	1771277.00	407901.42	39°37'4.0594"N	80°12'0.4287"W	10135.42	150.294	0.25	-0.13	0.21
18207.00	91.350	144.320	8040.91	10186.15	-8879.88	5077.24	1771331.65	407824.97	39°37'3.3080"N	80°11'59.7228"W	10228.91	150.240	0.28	0.10	-0.27
18301.00	91.080	144.770	8038.92	10280.13	-8956.43	5131.75	1771386.16	407748.42	39°37'2.5556"N	80°11'59.0186"W	10322.43	150.189	0.56	-0.29	0.48
18395.00	91.080	144.570	8037.15	10374.11	-9033.10	5186.10	1771440.50	407671.75	39°37'1.8021"N	80°11'58.3165"W	10415.98	150.139	0.21	0.00	-0.21
18490.00	90.800	144.420	8035.59	10469.09	-9110.43	5241.27	1771495.67	407594.43	39°37'1.0421"N	80°11'57.6039"W	10510.51	150.088	0.33	-0.29	-0.16
18585.00	91.170	144.650	8033.96	10564.08	-9187.79	5296.38	1771550.77	407517.07	39°37'0.2818"N	80°11'56.8920"W	10605.05	150.038	0.46	0.39	0.24
18679.00	91.080	144.570	8032.11	10658.06	-9264.41	5350.81	1771605.20	407440.46	39°36'59.5288"N	80°11'56.1889"W	10698.62	149.991	0.13	-0.10	-0.09

Actual Wellpath Report

Yost 6H AWP Proj: 21207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

WELLPATH DATA (238 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]
18775.00	91.230	144.720	8030.18	10754.04	-9342.69	5406.34	1771660.73	407362.18	39°36'58.7595"N	80°11'55.4714"W	10794.18	149.943	0.22	0.16	0.16
18869.00	91.790	145.060	8027.70	10848.00	-9419.56	5460.39	1771714.77	407285.32	39°36'58.0040"N	80°11'54.7732"W	10887.79	149.900	0.70	0.60	0.36
18963.00	91.510	144.580	8024.99	10941.96	-9496.36	5514.52	1771768.91	407208.52	39°36'57.2491"N	80°11'54.0738"W	10981.38	149.856	0.59	-0.30	-0.51
19057.00	91.540	144.790	8022.49	11035.93	-9573.03	5568.84	1771823.22	407131.85	39°36'56.4956"N	80°11'53.3721"W	11074.97	149.812	0.23	0.03	0.22
19152.00	91.570	144.240	8019.91	11130.89	-9650.36	5623.97	1771878.35	407054.53	39°36'55.7356"N	80°11'52.6601"W	11169.53	149.768	0.58	0.03	-0.58
19248.00	91.200	144.180	8017.59	11226.85	-9728.21	5680.10	1771934.47	406976.69	39°36'54.9705"N	80°11'51.9352"W	11265.06	149.720	0.39	-0.39	-0.06
19342.00	91.260	144.510	8015.57	11320.82	-9804.57	5734.88	1771989.24	406900.33	39°36'54.2201"N	80°11'51.2276"W	11358.63	149.676	0.36	0.06	0.35
19437.00	90.950	144.590	8013.74	11415.80	-9881.95	5789.96	1772044.33	406822.96	39°36'53.4597"N	80°11'50.5160"W	11453.23	149.633	0.34	-0.33	0.08
19532.00	91.020	144.340	8012.11	11510.78	-9959.24	5845.17	1772099.53	406745.67	39°36'52.7000"N	80°11'49.8030"W	11547.83	149.591	0.27	0.07	-0.26
19627.00	91.630	144.560	8009.91	11605.75	-10036.51	5900.39	1772154.75	406668.40	39°36'51.9406"N	80°11'49.0897"W	11642.43	149.549	0.68	0.64	0.23
19722.00	90.980	144.300	8007.75	11700.72	-10113.77	5955.64	1772209.99	406591.15	39°36'51.1814"N	80°11'48.3762"W	11737.03	149.508	0.74	-0.68	-0.27
19816.00	90.950	144.540	8006.17	11794.71	-10190.21	6010.32	1772264.67	406514.72	39°36'50.4301"N	80°11'47.6698"W	11830.65	149.467	0.26	-0.03	0.26
19911.00	91.080	145.060	8004.48	11889.69	-10267.82	6065.07	1772319.42	406437.11	39°36'49.6673"N	80°11'46.9625"W	11925.32	149.430	0.56	0.14	0.55
20006.00	91.020	144.330	8002.74	11984.67	-10345.34	6119.97	1772374.31	406359.60	39°36'48.9054"N	80°11'46.2535"W	12019.98	149.393	0.77	-0.06	-0.77
20101.00	90.860	144.050	8001.18	12079.65	-10422.37	6175.54	1772429.89	406282.57	39°36'48.1484"N	80°11'45.5357"W	12114.58	149.352	0.34	-0.17	-0.29
20196.00	90.620	144.350	7999.96	12174.63	-10499.41	6231.11	1772485.45	406205.53	39°36'47.3912"N	80°11'44.8181"W	12209.19	149.312	0.40	-0.25	0.32
20291.00	90.650	145.470	7998.90	12269.62	-10577.14	6285.72	1772540.05	406127.81	39°36'46.6273"N	80°11'44.1126"W	12303.91	149.278	1.18	0.03	1.18
20386.00	90.980	145.530	7997.55	12364.61	-10655.42	6339.52	1772593.85	406049.53	39°36'45.8577"N	80°11'43.4174"W	12398.69	149.249	0.35	0.35	0.06
20481.00	90.150	145.620	7996.61	12459.60	-10733.78	6393.22	1772647.55	405971.18	39°36'45.0874"N	80°11'42.7235"W	12493.49	149.221	0.88	-0.87	0.09
20575.00	90.030	145.820	7996.47	12553.59	-10811.45	6446.17	1772700.49	405893.51	39°36'44.3239"N	80°11'42.0393"W	12587.32	149.195	0.25	-0.13	0.21
20670.00	90.460	145.700	7996.06	12648.58	-10889.99	6499.62	1772753.94	405814.98	39°36'43.5518"N	80°11'41.3486"W	12682.15	149.169	0.47	0.45	-0.13
20764.00	90.680	145.860	7995.13	12742.57	-10967.71	6552.48	1772806.80	405737.26	39°36'42.7878"N	80°11'40.6655"W	12775.98	149.144	0.29	0.23	0.17
20859.00	90.220	145.700	7994.38	12837.56	-11046.26	6605.90	1772860.22	405658.71	39°36'42.0155"N	80°11'39.9752"W	12870.81	149.120	0.51	-0.48	-0.17
20953.00	90.680	146.290	7993.64	12931.54	-11124.18	6658.47	1772912.79	405580.80	39°36'41.2495"N	80°11'39.2958"W	12964.67	149.097	0.80	0.49	0.63
21047.00	90.280	145.940	7992.85	13025.52	-11202.22	6710.88	1772965.19	405502.77	39°36'40.4823"N	80°11'38.6185"W	13058.54	149.076	0.57	-0.43	-0.37
21142.00	90.340	146.110	7992.34	13120.50	-11281.00	6763.97	1773018.27	405423.99	39°36'39.7078"N	80°11'37.9324"W	13153.41	149.054	0.19	0.06	0.18
21182.00	90.550	145.390	7992.03	13160.50	-11314.06	6786.48	1773040.78	405390.93	39°36'39.3828"N	80°11'37.6415"W	13193.34	149.044	1.87	0.52	-1.80
21207.00‡	90.550	145.390	7991.79	13185.50	-11334.63	6800.68	1773054.98	405370.36	39°36'39.1805"N	80°11'37.4581"W	13218.29	149.037	0.00	0.00	0.00

Actual Wellpath Report

Yost 6H AWP Proj: 21207'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

HOLE & CASING SECTIONS - Ref Wellbore: Yost 6H AWB Ref Wellpath: Yost 6H AWP Proj: 21207'

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]
17.5in Open Hole	28.00	1490.00	1462.00	28.00	1489.95	0.00	0.00	-7.88	6.49
13.375in Casing Surface	28.00	1460.00	1432.00	28.00	1459.95	0.00	0.00	-7.71	6.55
12.25in Open Hole	1490.00	2660.00	1170.00	1489.95	2656.64	-7.88	6.49	-24.20	-73.08
9.625in Casing Intermediate	28.00	2630.00	2602.00	28.00	2626.81	0.00	0.00	-23.07	-70.10
8.5in Open Hole	2660.00	21207.00	18547.00	2656.64	7991.79	-24.20	-73.08	-11334.63	6800.68
5.5in Casing Production	28.00	21177.00	21149.00	28.00	7992.08	0.00	0.00	-11309.94	6783.64

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Yost 6H BHL Rev-3	8308.00	-11333.19	6803.58	1773057.88	405371.80	39°36'39.1950"N	80°11'37.4211"W	point
Yost 6H LP Rev-0	8308.00	-1152.67	-324.90	1765929.84	415551.71	39°38'19.2516"N	80°13'9.5433"W	point
Yost Hardline #3 (1.31.21)	9028.00	-8589.35	7991.31	1774245.54	408115.48	39°37'6.4019"N	80°11'22.5146"W	polygon
2D Polygon: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: Yost 6H AWB Ref Wellpath: Yost 6H AWP Proj: 21207'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1300.00	BH Generic gyro - northseeking (Standard)	01_Gyro Surveys [BH Generic Gyro-Northseeking] (50'-1300')	Yost 6H AWB	6/5/2022
1300.00	7305.00	OWSG MWD rev2 + HRGM	02_SD1 MWD [OWSG MWD Rev.2+HRGM] (1300')(1342'-7305')	Yost 6H AWB	6/5/2022
7305.00	21207.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	03_ATK Curve [HRGM+Short Spacing] (7305')(7415' - 21182')	Yost 6H AWB	6/5/2022

REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 6H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 6H AWB
Slot	Slot 06		

COMMENTS
<p>Wellpath general comments API: 47061018940000 BH Job #: 111309726 Rig: Patterson 277 Duration: 6/5/2022 - 6/9/2022</p> <p>01_Gyro Surveys [BH Generic Gyro-Northseeking] (50'-1300') 02_SDI MWD [OWSG MWD Rev.2+HRGM] (1300')(1342'-7305') 03_ATK Curve [HRGM+Short Spacing] (7305')(7415' - 21182')</p> <p>Final Survey MD @ 21182' Projected MD at TD: 21207'</p>