

NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot #07
 Well: McClellan 7H
 Wellbore: McClellan 7H PWB

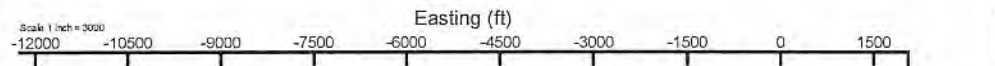
Wellbore which this well is a part of	McClellan 7H PWB
Wellbore which this well is a part of (if different)	McClellan 7H PWB
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Location Information				
Facility Name	Grid East (US RL)	Grid North (US RL)	Latitude	Longitude
McClellan Pad	1749195.000	409495.899	39°31'18.9211"N	80°16'42.9186"W
Slot	Local N (ft)	Local E (ft)	Grid East (US RL)	Grid North (US RL)
Slot #07	-18.41	-07.97	1749117.000	409471.499
Patterson 277 (RRR) to Ground level (At Slot: Slot #07)				
				268
Mean Sea Level to Ground level (At Slot: Slot #07)				
				-1412
Patterson 277 (RRR) to Mean Sea Level				
				1445

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (ft/100ft)	VS (ft)
Tie On	7485.00	21.590	244.740	7098.33	-1323.05	-1579.85	0.90	-226.80
Projection	7575.00	21.590	244.740	7182.01	-1337.16	-1699.80	0.00	-221.77
Build+Turn	7034.86	27.132	261.383	7510.09	-1377.81	-1751.18	2.44	-177.36
Landing Pt	8675.62	86.000	326.373	8040.00	-856.89	-2395.17	8.00	-479.93
BHI	24459.21	86.000	326.373	8127.06	11867.38	-10914.01	0.00	16025.55

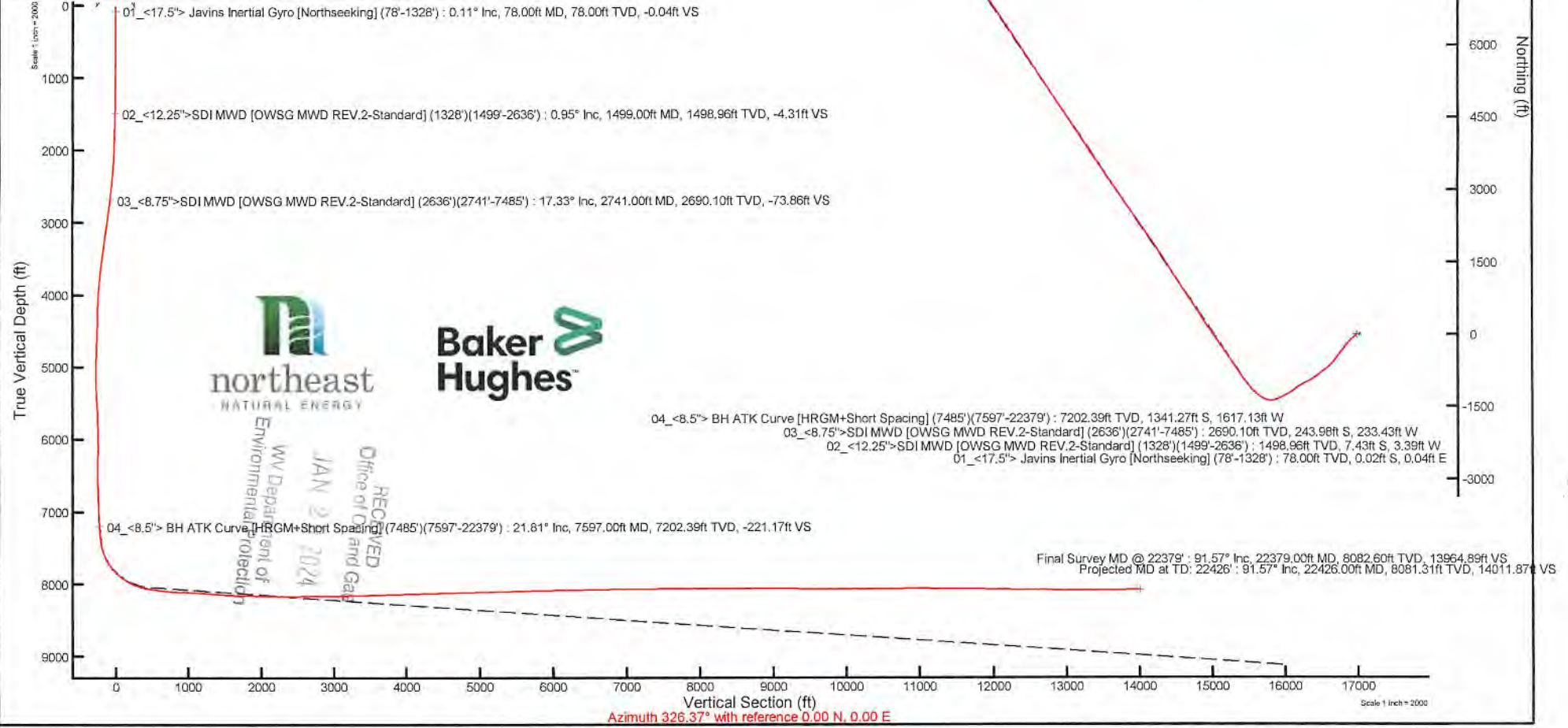
Well Data			
Slot	Well	Wellbore	Wellpath
Slot #07	McClellan 7H	McClellan 7H AWWB	McClellan 7H AWP Proj 22426
Slot #07	McClellan 7H	McClellan 7H PWB	McClellan 7H Rev-A-D

Projected MD at TD: 22426' : 8081.31ft TVD, 10312.40ft N, 9796.26ft W
 Final Survey MD @ 22379' : 8082.60ft TVD, 10273.43ft N, 9770.02ft W



User specified HDCM Dip: 66.39° FkM: 51887 nT
 Magnetic North is 8.50 degrees West of True North (at 9/13/2022)
 Grid North is 0.50 degrees West of True North
 To correct azimuth from True to Grid add 0.50 degrees
 To correct azimuth from Magnetic to Grid subtract 8.45 degrees

API: 47061018880000
 BH Job #: 111431589
 Rig: Patterson 277
 Duration: 9/13/2022 - 9/15/2022



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Actual Wellpath Report

McClellan 7H AWP Proj: 22426'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

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	9/19/2022 at 11:57:45 PM
Convergence at slot	0.50° 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	-18.41	-67.97	1749117.03	409477.49	39°37'17.8333"N	80°16'43.7852"W
Facility Reference Pt			1749185.00	409495.90	39°37'18.0211"N	80°16'42.9186"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	1440.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1440.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot #07)	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	326.37°

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Slot	Slot #07		

WELLPATH DATA (249 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	110.500	0.00	0.00	0.00	0.00	1749117.03	409477.49	39°37'17.8333"N	80°16'43.7852"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	110.500	28.00	0.00	0.00	0.00	1749117.03	409477.49	39°37'17.8333"N	80°16'43.7852"W	0.00	0.000	0.00	0.00	0.00
78.00	0.110	110.500	78.00	-0.04	-0.02	0.04	1749117.07	409477.47	39°37'17.8331"N	80°16'43.7846"W	0.05	110.500	0.22	0.22	0.00
128.00	0.360	165.100	128.00	-0.23	-0.19	0.13	1749117.16	409477.30	39°37'17.8315"N	80°16'43.7835"W	0.23	144.902	0.62	0.50	109.20
178.00	0.360	254.500	178.00	-0.33	-0.38	0.02	1749117.05	409477.11	39°37'17.8295"N	80°16'43.7849"W	0.38	177.082	1.01	0.00	178.80
228.00	0.300	255.500	228.00	-0.23	-0.45	-0.26	1749116.77	409477.04	39°37'17.8288"N	80°16'43.7885"W	0.52	209.685	0.12	-0.12	2.00
278.00	0.530	183.100	278.00	-0.38	-0.72	-0.40	1749116.63	409476.77	39°37'17.8262"N	80°16'43.7902"W	0.82	209.013	1.05	0.46	-144.80
328.00	0.440	222.800	328.00	-0.61	-1.09	-0.54	1749116.49	409476.40	39°37'17.8225"N	80°16'43.7920"W	1.22	206.407	0.68	-0.18	79.40
378.00	0.460	225.100	377.99	-0.69	-1.37	-0.81	1749116.22	409476.12	39°37'17.8197"N	80°16'43.7955"W	1.60	210.668	0.05	0.04	4.60
428.00	0.590	210.400	427.99	-0.84	-1.74	-1.09	1749115.94	409475.75	39°37'17.8160"N	80°16'43.7989"W	2.05	212.034	0.37	0.26	-29.40
478.00	0.330	241.500	477.99	-0.94	-2.03	-1.34	1749115.69	409475.46	39°37'17.8132"N	80°16'43.8022"W	2.43	213.531	0.70	-0.52	62.20
528.00	0.280	155.600	527.99	-1.05	-2.21	-1.42	1749115.61	409475.28	39°37'17.8114"N	80°16'43.8031"W	2.62	212.744	0.83	-0.10	-171.80
578.00	0.480	221.500	577.99	-1.23	-2.47	-1.51	1749115.52	409475.02	39°37'17.8087"N	80°16'43.8042"W	2.90	211.345	0.89	0.40	131.80
628.00	0.100	217.300	627.99	-1.29	-2.67	-1.67	1749115.36	409474.82	39°37'17.8068"N	80°16'43.8063"W	3.15	212.100	0.76	-0.76	-8.40
678.00	0.430	237.500	677.99	-1.30	-2.80	-1.86	1749115.17	409474.69	39°37'17.8054"N	80°16'43.8088"W	3.36	213.539	0.68	0.66	40.40
728.00	0.140	156.300	727.99	-1.36	-2.96	-1.99	1749115.04	409474.53	39°37'17.8039"N	80°16'43.8103"W	3.57	213.938	0.86	-0.58	-162.40
778.00	0.480	219.800	777.99	-1.48	-3.18	-2.10	1749114.93	409474.32	39°37'17.8017"N	80°16'43.8117"W	3.81	213.483	0.87	0.68	127.00
828.00	0.230	265.700	827.99	-1.49	-3.34	-2.33	1749114.70	409474.15	39°37'17.8001"N	80°16'43.8147"W	4.08	214.922	0.72	-0.50	91.80
878.00	0.470	198.000	877.98	-1.57	-3.55	-2.50	1749114.53	409473.94	39°37'17.7980"N	80°16'43.8167"W	4.34	215.160	0.88	0.48	-135.40
928.00	0.420	219.200	927.98	-1.75	-3.88	-2.68	1749114.35	409473.61	39°37'17.7947"N	80°16'43.8190"W	4.72	214.582	0.34	-0.10	42.40
978.00	0.450	230.000	977.98	-1.83	-4.15	-2.94	1749114.09	409473.34	39°37'17.7920"N	80°16'43.8224"W	5.09	215.336	0.17	0.06	21.80
1028.00	0.470	229.800	1027.98	-1.87	-4.41	-3.25	1749113.78	409473.08	39°37'17.7894"N	80°16'43.8263"W	5.48	216.392	0.04	0.04	-0.40
1078.00	0.190	123.800	1077.98	-1.97	-4.59	-3.34	1749113.69	409472.90	39°37'17.7877"N	80°16'43.8274"W	5.67	216.035	1.11	-0.56	-212.00
1128.00	0.240	251.100	1127.98	-2.02	-4.67	-3.37	1749113.66	409472.82	39°37'17.7869"N	80°16'43.8277"W	5.76	215.810	0.77	0.10	254.60
1228.00	0.930	172.700	1227.97	-2.70	-5.54	-3.46	1749113.57	409471.95	39°37'17.7782"N	80°16'43.8289"W	6.53	212.005	0.91	0.69	-78.40
1278.00	0.280	114.100	1277.97	-3.16	-5.99	-3.30	1749113.73	409471.50	39°37'17.7738"N	80°16'43.8267"W	6.84	208.838	1.64	-1.30	-117.20
1328.00	0.170	102.200	1327.97	-3.32	-6.06	-3.12	1749113.91	409471.43	39°37'17.7731"N	80°16'43.8244"W	6.81	207.216	0.24	-0.22	-23.80
1499.00	0.950	201.460	1498.96	-4.31	-7.43	-3.39	1749113.64	409470.06	39°37'17.7596"N	80°16'43.8277"W	8.17	204.499	0.58	0.46	58.05
1593.00	2.970	210.120	1592.90	-5.84	-10.26	-4.89	1749112.14	409467.23	39°37'17.7314"N	80°16'43.8466"W	11.37	205.493	2.17	2.15	9.21
1688.00	8.060	218.980	1687.43	-8.92	-17.58	-10.32	1749106.71	409459.92	39°37'17.6587"N	80°16'43.9152"W	20.38	210.427	5.42	5.36	9.33



Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]
1782.00	14.010	224.820	1779.66	-13.17	-30.78	-22.50	1749094.53	409446.71	39°37'17.5272"N	80°16'44.0693"W	38.13	216.165	6.43	6.33	6.21
1877.00	18.100	230.820	1870.94	-16.90	-48.27	-42.05	1749074.98	409429.22	39°37'17.3527"N	80°16'44.3173"W	64.02	221.063	4.64	4.31	6.32
1972.00	18.860	230.000	1961.04	-20.03	-67.46	-65.26	1749051.78	409410.03	39°37'17.1610"N	80°16'44.6116"W	93.86	224.047	0.85	0.80	-0.86
2067.00	19.310	229.940	2050.82	-23.49	-87.44	-89.04	1749028.00	409390.05	39°37'16.9615"N	80°16'44.9134"W	124.80	225.519	0.47	0.47	-0.06
2162.00	19.400	226.740	2140.45	-27.89	-108.36	-112.55	1749004.48	409369.18	39°37'16.7527"N	80°16'45.2115"W	156.24	226.086	1.12	0.09	-3.37
2257.00	18.920	225.050	2230.19	-33.55	-130.06	-134.94	1748982.09	409347.44	39°37'16.5364"N	80°16'45.4952"W	187.42	226.056	0.77	-0.51	-1.78
2352.00	18.790	222.270	2320.09	-40.31	-152.26	-156.14	1748960.90	409325.24	39°37'16.3152"N	80°16'45.7636"W	218.09	225.720	0.96	-0.14	-2.93
2447.00	18.510	221.420	2410.10	-47.92	-174.89	-176.40	1748940.64	409302.61	39°37'16.0898"N	80°16'46.0201"W	248.40	225.247	0.41	-0.29	-0.89
2541.00	18.030	220.990	2499.37	-55.63	-197.06	-195.82	1748921.23	409280.44	39°37'15.8690"N	80°16'46.2657"W	277.81	224.819	0.53	-0.51	-0.46
2636.00	17.360	219.520	2589.87	-63.64	-219.09	-214.48	1748902.56	409258.41	39°37'15.6497"N	80°16'46.5017"W	306.60	224.390	0.85	-0.71	-1.55
2741.00	17.330	215.060	2690.10	-73.86	-243.98	-233.43	1748883.61	409233.53	39°37'15.4022"N	80°16'46.7412"W	337.66	223.735	1.27	-0.03	-4.25
2836.00	18.340	216.690	2780.54	-84.04	-267.54	-250.49	1748866.56	409209.96	39°37'15.1678"N	80°16'46.9665"W	366.50	223.114	1.19	1.06	1.72
2931.00	20.880	217.400	2870.02	-94.58	-292.98	-269.71	1748847.34	409184.53	39°37'14.9147"N	80°16'47.1993"W	398.22	222.631	2.69	2.67	0.75
3025.00	22.200	218.400	2957.45	-105.50	-320.21	-290.91	1748826.14	409157.30	39°37'14.6439"N	80°16'47.4672"W	432.62	222.255	1.46	1.40	1.06
3120.00	23.400	216.050	3045.03	-117.59	-349.53	-313.16	1748803.89	409127.98	39°37'14.3522"N	80°16'47.7483"W	469.30	221.959	1.59	1.26	-2.47
3214.00	23.490	215.580	3131.27	-130.73	-379.86	-335.04	1748782.01	409097.65	39°37'14.0506"N	80°16'48.0245"W	506.50	221.413	0.23	0.10	-0.52
3308.00	23.390	217.140	3217.51	-143.53	-409.97	-357.20	1748759.85	409067.54	39°37'13.7511"N	80°16'48.3044"W	543.76	221.065	0.68	-0.11	1.68
3406.00	22.850	219.800	3307.64	-155.36	-440.10	-381.13	1748735.93	409037.42	39°37'13.4513"N	80°16'48.6068"W	582.19	220.893	1.20	-0.55	2.71
3500.00	23.660	218.710	3394.01	-166.29	-468.84	-404.61	1748712.45	409008.68	39°37'13.1652"N	80°16'48.9036"W	619.29	220.794	0.98	0.86	-1.16
3594.00	21.830	214.730	3480.70	-178.46	-497.93	-426.36	1748690.69	408979.59	39°37'12.8759"N	80°16'49.1784"W	655.53	220.573	2.54	-1.95	-4.23
3689.00	20.860	215.850	3569.18	-190.90	-526.15	-446.33	1748670.73	408951.37	39°37'12.5953"N	80°16'49.4304"W	689.96	220.308	1.11	-1.02	1.18
3783.00	20.750	218.730	3657.05	-201.81	-552.71	-466.55	1748650.51	408924.81	39°37'12.3311"N	80°16'49.6859"W	723.30	220.168	1.09	-0.12	3.06
3878.00	21.150	221.470	3745.78	-211.32	-578.68	-488.43	1748628.63	408898.85	39°37'12.0725"N	80°16'49.9626"W	757.25	220.166	1.11	0.42	2.88
3973.00	22.340	223.310	3834.01	-219.81	-604.66	-512.17	1748604.90	408872.87	39°37'11.8137"N	80°16'50.2630"W	792.42	220.266	1.44	1.25	1.94
4067.00	22.210	222.940	3921.00	-227.97	-630.67	-536.52	1748580.54	408846.86	39°37'11.5546"N	80°16'50.5714"W	828.01	220.389	0.20	-0.14	-0.39
4162.00	22.380	227.700	4008.91	-234.87	-655.98	-562.13	1748554.93	408821.55	39°37'11.3022"N	80°16'50.8958"W	863.89	220.594	1.91	0.18	5.01
4256.00	22.570	227.630	4095.77	-240.31	-680.18	-588.70	1748528.37	408797.35	39°37'11.0608"N	80°16'51.2326"W	899.56	220.876	0.20	0.20	-0.07
4354.00	21.810	230.810	4186.51	-244.93	-704.36	-616.70	1748500.37	408773.17	39°37'10.8194"N	80°16'51.5877"W	936.19	221.204	1.45	-0.78	3.24
4480.00	20.620	234.360	4303.97	-247.98	-732.08	-652.88	1748464.19	408745.45	39°37'10.5424"N	80°16'52.0469"W	980.92	221.727	1.39	-0.94	2.82
4543.00	20.820	234.000	4362.90	-248.83	-745.13	-670.95	1748446.12	408732.41	39°37'10.4119"N	80°16'52.2764"W	1002.69	222.001	0.38	0.32	-0.57



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McClellan 7H AWP Proj: 22426'

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Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]
4638.00	20.390	233.410	4451.82	-250.38	-764.92	-697.90	1748419.18	408712.62	39°37'10.2140"N	80°16'52.6186"W	1035.45	222.377	0.50	-0.45	-0.62
4733.00	20.260	229.860	4540.91	-253.10	-785.39	-723.76	1748393.31	408692.15	39°37'10.0095"N	80°16'52.9468"W	1068.02	222.662	1.30	-0.14	-3.74
4828.00	20.290	232.350	4630.03	-256.12	-806.05	-749.38	1748367.70	408671.49	39°37'9.8031"N	80°16'53.2718"W	1100.58	222.913	0.91	0.03	2.62
4924.00	19.420	230.200	4720.32	-259.00	-826.44	-774.82	1748342.26	408651.10	39°37'9.5995"N	80°16'53.5947"W	1132.85	223.154	1.18	-0.91	-2.24
5018.00	19.010	231.020	4809.08	-262.11	-846.07	-798.73	1748318.35	408631.47	39°37'9.4034"N	80°16'53.8980"W	1163.53	223.351	0.52	-0.44	0.87
5113.00	19.350	232.190	4898.81	-264.70	-865.45	-823.19	1748293.89	408612.09	39°37'9.2097"N	80°16'54.2084"W	1194.42	223.566	0.54	0.38	1.23
5207.00	21.230	237.040	4986.98	-265.63	-884.26	-849.77	1748267.31	408593.28	39°37'9.0216"N	80°16'54.5461"W	1226.39	223.861	2.88	2.00	5.16
5304.00	20.750	236.510	5077.54	-265.39	-903.30	-878.84	1748238.24	408574.25	39°37'8.8309"N	80°16'54.9154"W	1260.28	224.214	0.53	-0.49	-0.55
5398.00	20.030	232.870	5165.66	-266.33	-922.20	-905.56	1748211.52	408555.34	39°37'8.6418"N	80°16'55.2547"W	1292.48	224.478	1.55	-0.77	-3.87
5493.00	21.500	237.410	5254.49	-267.01	-941.40	-933.21	1748183.88	408536.14	39°37'8.4497"N	80°16'55.6058"W	1325.56	224.749	2.29	1.55	-4.78
5588.00	22.820	245.740	5342.49	-263.69	-958.35	-964.68	1748152.41	408519.19	39°37'8.2794"N	80°16'56.0061"W	1359.80	225.188	3.58	1.39	6.77
5683.00	21.400	242.130	5430.51	-258.95	-974.03	-996.80	1748120.29	408503.52	39°37'8.1218"N	80°16'56.4148"W	1393.68	225.662	2.07	-1.49	-3.80
5778.00	22.400	245.240	5518.65	-254.42	-989.71	-1028.56	1748088.53	408487.84	39°37'7.9640"N	80°16'56.8189"W	1427.40	226.103	1.61	1.06	3.27
5872.00	24.000	243.100	5605.05	-249.42	-1005.86	-1061.87	1748055.22	408471.69	39°37'7.8016"N	80°16'57.2428"W	1462.65	226.552	1.92	1.70	-2.28
5966.00	24.160	239.230	5690.88	-246.22	-1024.35	-1095.45	1748021.64	408453.20	39°37'7.6159"N	80°16'57.6698"W	1499.77	226.921	1.69	0.17	-4.12
6060.00	23.470	239.140	5776.87	-244.35	-1043.80	-1128.05	1747989.05	408433.76	39°37'7.4210"N	80°16'58.0842"W	1536.88	227.222	0.74	-0.73	-0.10
6155.00	23.940	241.240	5863.86	-241.80	-1062.78	-1161.19	1747955.91	408414.78	39°37'7.2306"N	80°16'58.5055"W	1574.12	227.534	1.02	0.49	2.21
6253.00	23.410	239.800	5953.61	-238.95	-1082.13	-1195.44	1747921.66	408395.42	39°37'7.0363"N	80°16'58.9411"W	1612.48	227.848	0.80	-0.54	-1.47
6348.00	22.820	236.340	6040.99	-237.83	-1101.84	-1227.09	1747890.02	408375.72	39°37'6.8388"N	80°16'59.3433"W	1649.18	228.078	1.56	-0.62	-3.64
6443.00	21.760	230.350	6128.90	-239.69	-1123.29	-1255.99	1747861.12	408354.27	39°37'6.6243"N	80°16'59.7102"W	1685.02	228.192	2.64	-1.12	-6.31
6537.00	20.330	230.020	6216.63	-243.32	-1144.90	-1281.92	1747835.19	408332.66	39°37'6.4085"N	80°17'0.0391"W	1718.75	228.231	1.53	-1.52	-0.35
6632.00	20.100	233.990	6305.78	-245.82	-1165.10	-1307.77	1747809.34	408312.46	39°37'6.2067"N	80°17'0.3672"W	1751.49	228.302	1.46	-0.24	4.18
6727.00	20.350	235.620	6394.92	-246.72	-1184.03	-1334.60	1747782.51	408293.53	39°37'6.0173"N	80°17'0.7080"W	1784.12	228.421	0.65	0.26	1.72
6820.00	20.700	237.780	6482.02	-246.53	-1201.92	-1361.86	1747755.26	408275.64	39°37'5.8381"N	80°17'1.0543"W	1816.39	228.570	0.90	0.38	2.32
6914.00	21.300	239.280	6569.78	-245.25	-1219.50	-1390.59	1747726.53	408258.06	39°37'5.6619"N	80°17'1.4195"W	1849.57	228.750	0.86	0.64	1.60
7009.00	23.760	241.050	6657.52	-242.81	-1237.58	-1422.17	1747694.94	408239.98	39°37'5.4805"N	80°17'1.8210"W	1885.26	228.970	2.69	2.59	1.86
7103.00	23.040	238.590	6743.79	-240.55	-1256.34	-1454.44	1747662.67	408221.23	39°37'5.2924"N	80°17'2.2313"W	1921.92	229.180	1.29	-0.77	-2.62
7202.00	21.790	241.060	6835.31	-238.30	-1275.33	-1487.06	1747630.06	408202.24	39°37'5.1019"N	80°17'2.6460"W	1959.03	229.383	1.58	-1.26	2.49
7296.00	22.220	242.660	6922.46	-234.93	-1291.93	-1518.12	1747599.01	408185.64	39°37'4.9351"N	80°17'3.0410"W	1993.43	229.602	0.78	0.46	1.70
7390.00	21.070	242.860	7009.83	-231.07	-1307.80	-1548.94	1747568.18	408169.77	39°37'4.7756"N	80°17'3.4331"W	2027.21	229.825	1.23	-1.22	0.21



Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]	
7485.00	21.590	244.740	7098.33	-226.60	-1323.05	-1579.95	1747537.18	408154.52	39°37'4.6223"N	80°17'3.8276"W	2060.75	230.057	0.90	0.55	1.98	
7597.00	21.810	243.070	7202.39	-221.17	-1341.27	-1617.13	1747500.00	408136.30	39°37'4.4390"N	80°17'4.3007"W	2100.98	230.327	0.59	0.20	-1.49	
7692.00	22.310	247.430	7290.44	-215.65	-1356.18	-1649.52	1747467.61	408121.39	39°37'4.2888"N	80°17'4.7129"W	2135.45	230.574	1.80	0.53	4.59	
7787.00	24.730	254.300	7377.56	-206.07	-1368.48	-1685.31	1747431.82	408109.09	39°37'4.1642"N	80°17'5.1689"W	2170.95	230.923	3.85	2.55	7.23	
7882.00	26.730	257.070	7463.14	-192.40	-1378.64	-1725.27	1747391.86	408098.93	39°37'4.0603"N	80°17'5.6784"W	2208.44	231.372	2.46	2.11	2.92	
7977.00	28.840	270.200	7547.26	-172.07	-1383.35	-1769.05	1747348.09	408094.23	39°37'4.0100"N	80°17'6.2373"W	2245.71	231.976	6.80	2.22	13.82	
8071.00	32.990	279.580	7627.94	-141.90	-1379.01	-1817.01	1747300.13	408098.57	39°37'4.0488"N	80°17'6.8505"W	2281.05	232.804	6.75	4.41	9.98	
8165.00	38.860	292.220	7704.13	-99.87	-1363.56	-1869.66	1747247.48	408114.01	39°37'4.1969"N	80°17'7.5251"W	2314.07	233.896	10.04	6.24	13.45	
8259.00	41.000	299.870	7776.25	-47.84	-1337.03	-1923.74	1747193.41	408140.54	39°37'4.4544"N	80°17'8.2190"W	2342.74	235.200	5.69	2.28	8.14	
8353.00	47.580	304.930	7843.52	12.14	-1301.76	-1979.00	1747138.15	408175.81	39°37'4.7982"N	80°17'8.9291"W	2368.76	236.664	7.94	7.00	5.38	
8447.00	54.500	311.310	7902.63	81.51	-1256.55	-2036.29	1747080.86	408221.01	39°37'5.2400"N	80°17'9.6663"W	2392.78	238.322	9.05	7.36	6.79	
8541.00	60.290	313.190	7953.26	158.28	-1203.31	-2094.85	1747022.31	408274.26	39°37'5.7612"N	80°17'10.4205"W	2415.85	240.126	6.39	6.16	2.00	
8636.00	66.250	316.270	7995.98	241.34	-1143.59	-2155.05	1746962.11	408333.97	39°37'6.3461"N	80°17'11.1964"W	2439.68	242.047	6.91	6.27	3.24	
8731.00	72.020	318.650	8029.80	329.00	-1078.19	-2215.01	1746902.16	408399.37	39°37'6.9872"N	80°17'11.9699"W	2463.49	244.045	6.51	6.07	2.51	
8825.00	77.880	321.920	8054.21	419.21	-1008.38	-2272.95	1746844.22	408469.17	39°37'7.6721"N	80°17'12.7181"W	2486.59	246.076	7.08	6.23	3.48	
8919.00	82.000	324.900	8070.63	511.61	-934.08	-2328.09	1746789.08	408543.47	39°37'8.4016"N	80°17'13.4311"W	2508.49	248.138	5.38	4.38	3.17	
9014.00	82.630	327.250	8083.33	605.75	-855.97	-2380.63	1746736.55	408621.58	39°37'9.1690"N	80°17'14.1112"W	2529.84	250.224	2.54	0.66	2.47	
9109.00	82.850	325.700	8095.34	699.99	-777.41	-2432.68	1746684.50	408700.13	39°37'9.9409"N	80°17'14.7850"W	2553.87	252.278	1.63	0.23	-1.63	
9204.00	86.890	327.840	8103.83	794.58	-698.28	-2484.51	1746632.67	408779.25	39°37'10.7184"N	80°17'15.4563"W	2580.77	254.302	4.81	4.25	2.25	
9299.00	87.660	326.220	8108.35	889.46	-618.67	-2536.15	1746581.04	408858.86	39°37'11.5007"N	80°17'16.1250"W	2610.52	256.291	1.89	0.81	-1.71	
9394.00	88.060	325.810	8111.90	984.39	-539.96	-2589.21	1746527.98	408937.57	39°37'12.2740"N	80°17'16.8120"W	2644.92	258.220	0.60	0.42	-0.43	
9488.00	87.110	325.420	8115.86	1078.30	-462.45	-2642.25	1746474.94	409015.07	39°37'13.0353"N	80°17'17.4984"W	2682.42	260.073	1.09	-1.01	-0.41	
9583.00	85.750	326.180	8121.77	1173.11	-384.03	-2695.54	1746421.65	409093.48	39°37'13.8057"N	80°17'18.1882"W	2722.76	261.892	1.64	-1.43	0.80	
9677.00	85.690	325.330	8128.79	1266.84	-306.55	-2748.29	1746368.90	409170.96	39°37'14.5669"N	80°17'18.8710"W	2765.34	263.635	0.90	-0.06	-0.90	
9771.00	85.840	324.710	8135.73	1360.56	-229.74	-2802.04	1746315.17	409247.77	39°37'15.3213"N	80°17'19.5663"W	2811.44	265.313	0.68	0.16	-0.66	
9865.00	85.070	326.290	8143.18	1454.25	-152.52	-2855.11	1746262.10	409324.98	39°37'16.0798"N	80°17'20.2532"W	2859.18	268.942	1.87	-0.82	1.68	
9961.00	86.950	324.860	8149.86	1550.00	-73.53	-2909.25	1746207.96	409403.97	39°37'16.8557"N	80°17'20.9539"W	2910.18	268.552	2.46	1.96	-1.49	
10055.00	88.060	325.100	8153.95	1643.88	3.38	-2963.14	1746154.07	409480.87	39°37'17.6111"N	80°17'21.6512"W	2963.14	270.065	1.21	1.18	0.26	
10150.00	89.230	325.860	8156.20	1738.84	81.63	-3016.96	1746100.26	409559.11	39°37'18.3797"N	80°17'22.3477"W	3018.06	271.550	1.47	1.23	0.80	
10245.00	88.490	325.810	8158.09	1833.82	160.22	-3070.30	1746046.92	409637.70	39°37'19.1518"N	80°17'23.0382"W	3074.47	272.987	0.78	-0.78	-0.05	



Actual Wellpath Report

McClellan 7H AWP Proj: 22426'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]
10340.00	88.520	326.380	8160.57	1928.78	239.04	-3123.27	1745993.95	409716.51	39°37'19.9261"N	80°17'23.7240"W	3132.40	274.377	0.60	0.03	0.60
10435.00	88.650	327.340	8162.91	2023.75	318.56	-3175.19	1745942.04	409796.03	39°37'20.7075"N	80°17'24.3964"W	3191.13	275.729	1.02	0.14	1.01
10530.00	88.800	327.480	8165.03	2118.71	398.58	-3226.35	1745890.88	409876.05	39°37'21.4938"N	80°17'25.0591"W	3250.87	277.043	0.22	0.16	0.15
10624.00	89.110	328.510	8166.74	2212.65	478.28	-3276.16	1745841.08	409955.74	39°37'22.2771"N	80°17'25.7046"W	3310.88	278.306	1.14	0.33	1.10
10719.00	89.260	327.290	8168.09	2307.61	558.75	-3326.63	1745790.60	410036.20	39°37'23.0680"N	80°17'26.3587"W	3373.23	279.534	1.29	0.18	-1.28
10813.00	90.370	327.810	8168.40	2401.59	638.07	-3377.07	1745740.17	410115.52	39°37'23.8475"N	80°17'27.0122"W	3436.82	280.699	1.30	1.18	0.55
10908.00	90.580	326.890	8167.61	2496.57	718.05	-3428.32	1745688.92	410195.50	39°37'24.6335"N	80°17'27.6761"W	3502.71	281.829	0.99	0.22	-0.97
11003.00	91.350	327.480	8166.01	2591.55	797.88	-3479.79	1745637.45	410275.32	39°37'25.4179"N	80°17'28.3429"W	3570.09	282.914	1.02	0.81	0.62
11097.00	90.860	328.430	8164.20	2685.49	877.54	-3529.66	1745587.59	410354.98	39°37'26.2008"N	80°17'28.9891"W	3637.11	283.962	1.14	-0.52	1.01
11193.00	90.250	325.550	8163.27	2781.47	958.03	-3581.95	1745535.30	410435.46	39°37'26.9917"N	80°17'29.6664"W	3707.86	284.974	3.07	-0.64	-3.00
11287.00	90.060	328.110	8163.01	2875.46	1036.71	-3633.38	1745483.88	410514.13	39°37'27.7648"N	80°17'30.3325"W	3778.38	285.925	2.73	-0.20	2.72
11382.00	89.780	328.810	8163.14	2970.39	1117.67	-3683.07	1745434.19	410595.09	39°37'28.5606"N	80°17'30.9766"W	3848.92	286.881	0.79	-0.29	0.74
11476.00	90.830	328.680	8162.64	3064.31	1198.03	-3731.84	1745385.42	410675.44	39°37'29.3504"N	80°17'31.6090"W	3919.43	287.798	1.13	1.12	-0.14
11571.00	90.770	327.590	8161.32	3159.26	1278.70	-3781.99	1745335.28	410756.11	39°37'30.1433"N	80°17'32.2589"W	3992.30	288.681	1.15	-0.06	-1.15
11665.00	91.050	326.910	8159.82	3253.23	1357.75	-3832.83	1745284.43	410835.16	39°37'30.9201"N	80°17'32.9176"W	4066.21	289.506	0.78	0.30	-0.72
11760.00	91.600	329.290	8157.63	3348.16	1438.37	-3883.02	1745234.25	410915.78	39°37'31.7125"N	80°17'33.5680"W	4140.86	290.326	2.57	0.58	2.51
11855.00	91.570	326.590	8155.00	3443.07	1518.85	-3933.42	1745183.85	410996.24	39°37'32.5034"N	80°17'34.2212"W	4216.48	291.114	2.84	-0.03	-2.84
11949.00	91.750	327.910	8152.28	3537.02	1597.87	-3984.25	1745133.03	411075.26	39°37'33.2799"N	80°17'34.8797"W	4292.72	291.853	1.42	0.19	1.40
12044.00	91.570	326.860	8149.52	3631.97	1677.85	-4035.43	1745081.85	411155.24	39°37'34.0659"N	80°17'35.5428"W	4370.34	292.577	1.12	-0.19	-1.11
12139.00	91.820	326.470	8146.71	3726.92	1757.19	-4087.61	1745029.67	411234.57	39°37'34.8454"N	80°17'36.2186"W	4449.30	293.262	0.49	0.26	-0.41
12235.00	91.480	325.720	8143.95	3822.88	1836.83	-4141.14	1744976.14	411314.21	39°37'35.6278"N	80°17'36.9117"W	4530.23	293.920	0.86	-0.35	-0.78
12330.00	91.570	326.340	8141.42	3917.85	1915.59	-4194.20	1744923.08	411392.96	39°37'36.4015"N	80°17'37.5987"W	4610.95	294.547	0.66	0.09	0.65
12425.00	91.420	324.290	8138.94	4012.79	1993.68	-4248.24	1744869.05	411471.04	39°37'37.1685"N	80°17'38.2982"W	4692.79	295.140	2.16	-0.16	-2.16
12520.00	91.600	325.590	8136.44	4107.73	2071.41	-4302.79	1744814.50	411548.77	39°37'37.9319"N	80°17'39.0041"W	4775.43	295.707	1.38	0.19	1.37
12614.00	91.570	325.000	8133.84	4201.67	2148.66	-4356.29	1744761.00	411626.02	39°37'38.6908"N	80°17'39.6965"W	4857.37	296.254	0.63	-0.03	-0.63
12709.00	91.690	327.810	8131.14	4296.63	2227.75	-4408.83	1744708.47	411705.10	39°37'39.4677"N	80°17'40.3769"W	4939.70	296.807	2.96	0.13	2.96
12804.00	91.600	324.170	8128.41	4391.57	2306.45	-4461.94	1744655.37	411783.80	39°37'40.2408"N	80°17'41.0645"W	5022.81	297.335	3.83	-0.09	-3.83
12899.00	91.720	324.640	8125.66	4486.47	2383.67	-4517.21	1744600.10	411861.01	39°37'40.9991"N	80°17'41.7796"W	5107.55	297.820	0.51	0.13	0.49
12993.00	91.480	324.580	8123.03	4580.39	2460.27	-4571.63	1744545.68	411937.61	39°37'41.7513"N	80°17'42.4838"W	5191.60	298.287	0.26	-0.26	-0.06
13087.00	91.600	323.940	8120.51	4674.29	2538.54	-4626.51	1744490.80	412013.88	39°37'42.5003"N	80°17'43.1938"W	5276.24	298.734	0.69	0.13	-0.68



Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]
13182.00	91.350	326.060	8118.06	4769.23	2614.33	-4680.98	1744436.34	412091.66	39°37'43.2643"N	80°17'43.8988"W	5361.56	299.183	2.25	-0.26	2.23
13277.00	91.320	325.870	8115.85	4864.20	2693.03	-4734.14	1744383.18	412170.36	39°37'44.0374"N	80°17'44.5870"W	5446.51	299.634	0.20	-0.03	-0.20
13372.00	91.600	325.740	8113.43	4959.17	2771.59	-4787.51	1744329.81	412248.91	39°37'44.8090"N	80°17'45.2780"W	5531.90	300.067	0.32	0.29	-0.14
13466.00	91.480	326.150	8110.90	5053.13	2849.44	-4840.13	1744277.20	412326.75	39°37'45.5738"N	80°17'45.9594"W	5616.60	300.486	0.45	-0.13	0.44
13561.00	91.540	326.190	8108.40	5148.10	2928.33	-4893.00	1744224.33	412405.54	39°37'46.3488"N	80°17'46.6440"W	5702.33	300.899	0.08	0.06	0.04
13656.00	91.660	326.250	8105.74	5243.06	3007.26	-4945.80	1744171.53	412484.56	39°37'47.1242"N	80°17'47.3277"W	5788.31	301.301	0.14	0.13	0.06
13751.00	91.660	326.100	8102.99	5338.02	3086.14	-4998.66	1744118.67	412563.45	39°37'47.8992"N	80°17'48.0123"W	5874.60	301.691	0.16	0.00	-0.16
13846.00	91.540	325.790	8100.34	5432.98	3164.82	-5051.84	1744065.50	412642.12	39°37'48.6721"N	80°17'48.7008"W	5961.31	302.066	0.35	-0.13	-0.33
13941.00	91.450	325.830	8097.86	5527.94	3243.38	-5105.21	1744012.14	412720.67	39°37'49.4437"N	80°17'49.3918"W	6048.36	302.428	0.10	-0.09	0.04
14035.00	91.540	326.170	8095.41	5621.91	3321.28	-5157.75	1743959.59	412798.57	39°37'50.2090"N	80°17'50.0722"W	6134.60	302.779	0.37	0.10	0.36
14130.00	91.260	326.280	8093.09	5716.88	3400.22	-5210.55	1743906.80	412877.50	39°37'50.9845"N	80°17'50.7559"W	6221.84	303.127	0.32	-0.29	0.12
14225.00	91.420	325.840	8090.87	5811.85	3479.01	-5263.58	1743853.78	412956.29	39°37'51.7585"N	80°17'51.4426"W	6309.42	303.463	0.49	0.17	-0.46
14319.00	91.140	325.640	8088.77	5905.82	3556.69	-5316.48	1743800.87	413033.96	39°37'52.5215"N	80°17'52.1275"W	6396.48	303.782	0.37	-0.30	-0.21
14414.00	91.020	324.170	8086.97	6000.77	3634.40	-5371.09	1743746.27	413111.67	39°37'53.2847"N	80°17'52.8343"W	6485.17	304.085	1.55	-0.13	-1.55
14509.00	91.510	325.830	8084.88	6095.72	3712.20	-5425.56	1743691.80	413189.46	39°37'54.0487"N	80°17'53.5393"W	6573.97	304.380	1.82	0.52	1.75
14604.00	90.490	326.430	8083.22	6190.70	3791.06	-5478.50	1743638.87	413268.32	39°37'54.8235"N	80°17'54.2248"W	6662.29	304.683	1.25	-1.07	0.63
14699.00	90.800	327.180	8082.15	6285.69	3870.55	-5530.51	1743586.86	413347.81	39°37'55.6045"N	80°17'54.8986"W	6750.38	304.986	0.85	0.33	0.79
14794.00	90.650	327.040	8080.95	6380.67	3950.32	-5582.09	1743535.28	413427.57	39°37'56.3882"N	80°17'55.5669"W	6838.48	305.286	0.22	-0.18	-0.15
14889.00	91.140	327.120	8079.46	6475.66	4030.05	-5633.71	1743483.66	413507.30	39°37'57.1717"N	80°17'56.2357"W	6926.76	305.578	0.52	0.52	0.08
14983.00	91.140	327.110	8077.59	6569.63	4108.98	-5684.74	1743432.64	413586.22	39°37'57.9472"N	80°17'56.8969"W	7014.27	305.860	0.01	0.00	-0.01
15078.00	91.050	326.930	8075.78	6664.61	4188.65	-5736.44	1743380.94	413665.89	39°37'58.7300"N	80°17'57.5668"W	7102.93	306.136	0.21	-0.09	-0.19
15173.00	90.980	327.000	8074.10	6759.59	4268.28	-5788.22	1743329.16	413745.51	39°37'59.5124"N	80°17'58.2376"W	7191.79	306.405	0.10	-0.07	0.07
15268.00	90.950	326.950	8072.50	6854.57	4347.92	-5839.99	1743277.39	413825.15	39°38'0.2949"N	80°17'58.9084"W	7280.79	306.668	0.06	-0.03	-0.05
15362.00	90.950	326.610	8070.94	6948.55	4426.55	-5891.48	1743225.91	413903.77	39°38'1.0674"N	80°17'59.5754"W	7369.12	306.919	0.36	0.00	-0.36
15456.00	90.310	326.630	8069.90	7042.54	4505.04	-5943.20	1743174.20	413982.25	39°38'1.8385"N	80°18'0.2453"W	7457.68	307.163	0.68	-0.68	0.02
15550.00	90.580	326.900	8069.17	7136.54	4583.66	-5994.72	1743122.68	414060.87	39°38'2.6110"N	80°18'0.9127"W	7546.29	307.402	0.41	0.29	0.29
15645.00	90.400	326.880	8068.36	7231.53	4663.23	-6046.61	1743070.79	414140.44	39°38'3.3928"N	80°18'1.5850"W	7635.92	307.640	0.19	-0.19	-0.02
15741.00	90.490	326.750	8067.62	7327.53	4743.57	-6099.15	1743018.25	414220.77	39°38'4.1821"N	80°18'2.2657"W	7726.65	307.874	0.16	0.09	-0.14
15836.00	90.310	326.540	8066.95	7422.52	4822.92	-6151.38	1742966.02	414300.12	39°38'4.9617"N	80°18'2.9424"W	7816.66	308.098	0.29	-0.19	-0.22
15930.00	89.940	326.950	8066.75	7516.62	4901.53	-6202.93	1742914.48	414378.72	39°38'5.7340"N	80°18'3.6102"W	7905.78	308.316	0.59	-0.39	0.44



Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]
16026.00	90.090	327.200	8066.72	7612.51	4982.11	-6255.11	1742862.30	414459.29	39°38'6.5257"N	80°18'4.2863"W	7996.74	308.537	0.30	0.16	0.26
16120.00	90.000	327.120	8066.65	7706.50	5061.09	-6306.08	1742811.33	414538.27	39°38'7.3018"N	80°18'4.9468"W	8085.87	308.750	0.13	-0.10	-0.09
16215.00	90.250	327.140	8066.44	7801.49	5140.88	-6357.64	1742759.77	414618.05	39°38'8.0857"N	80°18'5.6149"W	8176.08	308.959	0.26	0.26	0.02
16309.00	90.060	327.200	8066.19	7895.49	5219.86	-6408.61	1742708.82	414697.03	39°38'8.8618"N	80°18'6.2753"W	8265.42	309.163	0.21	-0.20	0.06
16405.00	90.740	327.300	8065.52	7991.47	5300.60	-6460.54	1742656.89	414777.77	39°38'9.6551"N	80°18'6.9483"W	8356.73	309.367	0.72	0.71	0.10
16499.00	90.800	327.350	8064.25	8085.45	5379.72	-6511.28	1742606.15	414856.88	39°38'10.4325"N	80°18'7.6059"W	8446.19	309.564	0.08	0.06	0.05
16594.00	90.030	326.770	8063.56	8180.44	5459.44	-6562.94	1742554.50	414936.60	39°38'11.2159"N	80°18'8.2752"W	8536.84	309.756	1.01	-0.81	-0.61
16688.00	90.220	326.870	8063.36	8274.44	5538.12	-6614.38	1742503.05	415015.27	39°38'11.9888"N	80°18'8.9417"W	8626.75	309.939	0.23	0.20	0.11
16783.00	89.910	327.060	8063.25	8369.43	5617.76	-6666.17	1742451.27	415094.90	39°38'12.7713"N	80°18'9.6128"W	8717.63	310.122	0.38	-0.33	0.20
16877.00	90.000	326.870	8063.33	8463.43	5696.56	-6717.41	1742400.03	415173.70	39°38'13.5456"N	80°18'10.2768"W	8807.64	310.299	0.22	0.10	-0.20
16972.00	89.660	327.150	8063.61	8558.42	5776.24	-6769.14	1742348.30	415253.38	39°38'14.3285"N	80°18'10.9470"W	8898.67	310.475	0.46	-0.36	0.29
17067.00	89.350	326.930	8064.43	8653.41	5855.95	-6820.82	1742296.62	415333.08	39°38'15.1116"N	80°18'11.6167"W	8989.76	310.647	0.40	-0.33	-0.23
17162.00	89.600	327.390	8065.30	8748.39	5935.76	-6872.34	1742245.11	415412.89	39°38'15.8958"N	80°18'12.2843"W	9080.88	310.818	0.55	0.26	0.48
17256.00	89.780	326.840	8065.81	8842.39	6014.70	-6923.38	1742194.08	415491.82	39°38'16.6714"N	80°18'12.9457"W	9171.14	310.983	0.62	0.19	-0.59
17350.00	89.850	327.100	8066.11	8936.38	6093.51	-6974.61	1742142.84	415570.63	39°38'17.4457"N	80°18'13.6096"W	9261.54	311.143	0.29	0.07	0.28
17444.00	90.030	327.420	8066.21	9030.37	6172.58	-7025.45	1742092.01	415649.69	39°38'18.2226"N	80°18'14.2684"W	9351.88	311.303	0.39	0.19	0.34
17539.00	89.940	327.130	8066.23	9125.36	6252.50	-7076.81	1742040.66	415729.60	39°38'19.0078"N	80°18'14.9340"W	9443.25	311.461	0.32	-0.09	-0.31
17634.00	90.000	327.340	8066.28	9220.35	6332.38	-7128.22	1741989.25	415809.48	39°38'19.7928"N	80°18'15.6003"W	9534.70	311.616	0.23	0.06	0.22
17729.00	89.660	325.980	8066.57	9315.34	6411.74	-7180.43	1741937.04	415888.84	39°38'20.5725"N	80°18'16.2768"W	9626.48	311.763	1.48	-0.36	-1.43
17823.00	89.690	326.020	8067.10	9409.34	6489.67	-7233.00	1741884.48	415966.77	39°38'21.3379"N	80°18'16.9576"W	9717.62	311.899	0.05	0.03	0.04
17918.00	89.880	326.540	8067.46	9504.34	6568.69	-7285.73	1741831.74	416045.78	39°38'22.1141"N	80°18'17.6407"W	9809.67	312.037	0.58	0.20	0.55
18012.00	89.750	325.940	8067.76	9598.34	6646.84	-7337.97	1741779.51	416123.92	39°38'22.8818"N	80°18'18.3174"W	9900.82	312.171	0.65	-0.14	-0.64
18107.00	89.750	326.380	8068.17	9693.33	6725.74	-7390.87	1741726.61	416202.82	39°38'23.6569"N	80°18'19.0026"W	9993.03	312.302	0.46	0.00	0.46
18203.00	89.660	326.060	8068.67	9789.33	6805.53	-7444.25	1741673.24	416282.61	39°38'24.4407"N	80°18'19.6940"W	10086.23	312.434	0.35	-0.09	-0.33
18297.00	89.720	325.820	8069.18	9883.33	6883.41	-7496.89	1741620.60	416360.48	39°38'25.2057"N	80°18'20.3769"W	10177.66	312.557	0.26	0.06	-0.26
18393.00	89.750	326.490	8069.62	9979.33	6963.14	-7550.36	1741567.13	416440.20	39°38'25.9889"N	80°18'21.0684"W	10270.99	312.683	0.70	0.03	0.70
18488.00	89.820	326.090	8069.98	10074.32	7042.17	-7603.08	1741514.41	416519.22	39°38'26.7652"N	80°18'21.7514"W	10363.35	312.807	0.43	0.07	-0.42
18583.00	89.720	326.150	8070.36	10169.32	7121.03	-7656.04	1741461.46	416598.09	39°38'27.5399"N	80°18'22.4374"W	10455.82	312.927	0.12	-0.11	0.06
18678.00	89.480	325.960	8071.02	10264.32	7199.84	-7709.09	1741408.42	416676.89	39°38'28.3140"N	80°18'23.1245"W	10548.35	313.044	0.32	-0.25	-0.20
18773.00	89.720	325.980	8071.68	10359.31	7278.57	-7762.25	1741355.26	416755.61	39°38'29.0873"N	80°18'23.8131"W	10640.96	313.168	0.25	0.25	0.02



Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]
18866.00	89.720	326.170	8072.14	10452.31	7355.74	-7814.15	1741303.36	416832.78	39°38'29.8453"N	80°18'24.4854"W	10731.63	313.269	0.20	0.00	0.20
18961.00	90.120	325.860	8072.27	10547.31	7434.51	-7867.26	1741250.26	416911.54	39°38'30.6191"N	80°18'25.1733"W	10824.31	313.380	0.53	0.42	-0.33
19056.00	91.140	326.250	8071.23	10642.30	7513.31	-7920.30	1741197.22	416990.34	39°38'31.3932"N	80°18'25.8603"W	10917.01	313.489	1.15	1.07	0.41
19150.00	92.030	326.270	8068.63	10736.26	7591.45	-7972.49	1741145.03	417068.48	39°38'32.1607"N	80°18'26.5364"W	11008.66	313.598	0.95	0.95	0.02
19245.00	90.520	326.070	8066.51	10831.24	7670.34	-8025.86	1741092.16	417147.86	39°38'32.9357"N	80°18'27.2214"W	11101.38	313.704	1.60	-1.59	-0.21
19341.00	90.220	327.010	8065.89	10927.23	7750.43	-8078.29	1741039.23	417227.45	39°38'33.7225"N	80°18'27.9072"W	11195.00	313.813	1.03	-0.31	0.98
19435.00	89.750	326.300	8065.92	11021.23	7828.96	-8129.96	1740987.57	417305.97	39°38'34.4939"N	80°18'28.5767"W	11286.67	313.919	0.91	-0.50	-0.76
19530.00	89.450	326.330	8066.58	11116.23	7908.00	-8182.65	1740934.88	417385.01	39°38'35.2704"N	80°18'29.2592"W	11379.47	314.022	0.32	-0.32	0.03
19624.00	89.910	327.290	8067.11	11210.22	7986.67	-8234.11	1740883.43	417463.67	39°38'36.0432"N	80°18'29.9260"W	11471.15	314.126	1.13	0.49	1.02
19718.00	90.000	326.570	8067.18	11304.22	8065.44	-8285.40	1740832.14	417542.43	39°38'36.8171"N	80°18'30.5908"W	11562.83	314.229	0.77	0.10	-0.77
19814.00	89.230	326.430	8067.83	11400.21	8145.49	-8338.38	1740779.16	417622.48	39°38'37.6035"N	80°18'31.2773"W	11656.65	314.330	0.82	-0.80	-0.15
19908.00	89.540	326.650	8068.83	11494.21	8223.91	-8390.21	1740727.34	417700.89	39°38'38.3738"N	80°18'31.9488"W	11748.54	314.427	0.40	0.33	0.23
20004.00	90.090	326.170	8069.14	11590.21	8303.87	-8443.32	1740674.23	417780.86	39°38'39.1594"N	80°18'32.6369"W	11842.46	314.523	0.76	0.57	-0.50
20099.00	89.720	326.330	8069.30	11685.21	8382.86	-8496.10	1740621.45	417859.84	39°38'39.9353"N	80°18'33.3207"W	11935.50	314.616	0.42	-0.39	0.17
20193.00	88.550	325.810	8070.72	11779.19	8460.85	-8548.56	1740569.00	417937.82	39°38'40.7013"N	80°18'34.0003"W	12027.62	314.705	1.36	-1.24	-0.55
20288.00	88.770	325.940	8072.94	11874.16	8539.47	-8601.84	1740515.72	418016.43	39°38'41.4736"N	80°18'34.6904"W	12120.81	314.792	0.27	0.23	0.14
20381.00	88.890	325.950	8074.84	11967.14	8616.50	-8653.91	1740463.65	418093.46	39°38'42.2302"N	80°18'35.3649"W	12212.05	314.876	0.13	0.13	0.01
20476.00	89.230	326.040	8076.40	12062.13	8695.25	-8707.03	1740410.53	418172.20	39°38'43.0037"N	80°18'36.0530"W	12305.27	314.961	0.37	0.36	0.09
20571.00	88.710	326.020	8078.11	12157.11	8774.02	-8760.10	1740357.46	418250.97	39°38'43.7774"N	80°18'36.7406"W	12398.50	315.045	0.55	-0.55	-0.02
20666.00	88.460	325.800	8080.45	12252.08	8852.67	-8813.33	1740304.24	418329.62	39°38'44.5499"N	80°18'37.4301"W	12491.78	315.128	0.35	-0.25	-0.23
20761.00	88.030	325.860	8083.36	12347.03	8931.23	-8866.66	1740250.91	418408.18	39°38'45.3216"N	80°18'38.1209"W	12585.10	315.208	0.46	-0.45	0.06
20856.00	89.720	326.110	8085.23	12442.00	9009.96	-8919.80	1740197.78	418486.90	39°38'46.0949"N	80°18'38.8092"W	12678.41	315.288	1.80	1.78	0.26
20951.00	89.690	326.240	8085.72	12537.00	9088.88	-8972.68	1740144.90	418565.81	39°38'46.8701"N	80°18'39.4943"W	12771.71	315.369	0.14	-0.03	0.14
21046.00	89.690	326.140	8086.23	12632.00	9167.81	-9025.54	1740092.04	418644.74	39°38'47.6454"N	80°18'40.1792"W	12865.04	315.448	0.11	0.00	-0.11
21141.00	89.880	326.000	8086.59	12727.00	9246.63	-9078.57	1740039.02	418723.56	39°38'48.4196"N	80°18'40.8661"W	12958.42	315.525	0.25	0.20	-0.15
21237.00	89.720	326.070	8086.92	12823.00	9326.25	-9132.20	1739985.39	418803.17	39°38'49.2017"N	80°18'41.5609"W	13052.82	315.602	0.18	-0.17	0.07
21332.00	89.570	326.040	8087.51	12917.99	9405.06	-9185.25	1739932.35	418881.98	39°38'49.9758"N	80°18'42.2482"W	13146.25	315.677	0.16	-0.16	-0.03
21428.00	89.350	325.990	8088.42	13013.99	9484.66	-9238.91	1739878.69	418961.57	39°38'50.7576"N	80°18'42.9433"W	13240.70	315.752	0.24	-0.23	-0.05
21523.00	89.420	326.050	8089.44	13108.98	9563.43	-9292.00	1739825.60	419040.34	39°38'51.5314"N	80°18'43.6311"W	13334.18	315.825	0.10	0.07	0.06
21618.00	90.090	325.930	8089.84	13203.98	9642.18	-9345.13	1739772.47	419119.08	39°38'52.3048"N	80°18'44.3195"W	13427.70	315.896	0.72	0.71	-0.13

Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

WELLPATH DATA (249 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]
21713.00	90.180	325.780	8089.62	13298.97	9720.81	-9398.46	1739719.15	419197.70	39°38'53.0771"N	80°18'45.0103"W	13521.28	315.966	0.18	0.09	-0.16
21809.00	90.520	326.150	8089.03	13394.97	9800.36	-9452.19	1739665.42	419277.25	39°38'53.8585"N	80°18'45.7063"W	13615.83	316.036	0.52	0.35	0.39
21904.00	90.150	326.200	8088.48	13489.97	9879.28	-9505.07	1739612.54	419356.16	39°38'54.6336"N	80°18'46.3915"W	13709.36	316.106	0.39	-0.39	0.05
21999.00	90.150	326.080	8088.23	13584.96	9958.17	-9558.00	1739559.62	419435.05	39°38'55.4085"N	80°18'47.0773"W	13802.91	316.175	0.13	0.00	-0.13
22094.00	90.150	326.040	8087.98	13679.96	10036.98	-9611.04	1739506.58	419513.85	39°38'56.1827"N	80°18'47.7645"W	13896.51	316.242	0.04	0.00	-0.04
22190.00	90.370	326.070	8087.54	13775.96	10116.62	-9664.64	1739452.98	419593.49	39°38'56.9649"N	80°18'48.4590"W	13991.12	316.309	0.23	0.23	0.03
22285.00	92.030	326.140	8085.55	13870.93	10195.45	-9717.61	1739400.01	419672.32	39°38'57.7392"N	80°18'49.1452"W	14084.72	316.375	1.75	1.75	0.07
22379.00	91.570	326.050	8082.60	13964.89	10273.43	-9770.02	1739347.61	419750.29	39°38'58.5052"N	80°18'49.8242"W	14177.33	316.439	0.50	-0.49	-0.10
22426.00‡	91.570	326.050	8081.31	14011.87	10312.40	-9796.26	1739321.37	419789.26	39°38'58.8880"N	80°18'50.1642"W	14223.65	316.470	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: McClellan 7H AWB Ref Wellpath: McClellan 7H AWP Proj: 22426'									
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	1498.00	1470.00	28.00	1497.96	0.00	0.00	-7.42	-3.38
13.375in Casing Surface	28.00	1468.00	1440.00	28.00	1467.97	0.00	0.00	-7.00	-3.22
12.25in Open Hole	1498.00	2697.00	1199.00	1497.96	2648.10	-7.42	-3.38	-233.37	-225.73
9.625in Casing Intermediate	28.00	2667.00	2639.00	28.00	2619.46	0.00	0.00	-226.29	-220.28
8.75in Open Hole	2697.00	7485.00	4788.00	2648.10	7098.33	-233.37	-225.73	-1323.05	-1579.95
8.5in Open Hole	7485.00	22426.00	14941.00	7098.33	8081.31	-1323.05	-1579.95	10312.40	-9796.26
5.5in Casing Production	28.00	22396.00	22368.00	28.00	8082.14	0.00	0.00	10287.53	-9779.51



Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McClellan 7H LP Rev-5	8040.00	-956.89	-2305.17	1746812.00	408520.65	39°37'8.1782"N	80°17'13.1356"W	point
McClellan Hardline #1 (03.15.2022)	8529.00	11954.58	-11011.73	1738105.98	421431.34	39°39'15.0077"N	80°19'5.8940"W	polygon
2D Polygon: dimensions not calculated								
McClellan 7H BHL Rev-8	9127.06	11987.38	-10914.01	1738203.69	421464.14	39°39'15.3406"N	80°19'4.6485"W	point

WELLPATH COMPOSITION - Ref Wellbore: McClellan 7H AWB Ref Wellpath: McClellan 7H AWP Proj: 22426'								
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date			
28.00	1328.00	BH Generic gyro - northseeking (Standard)	01 <17.5"> Javins Inertial Gyro [Northseeking] (78'-1328')	McClellan 7H AWB	9/13/2022			
1328.00	2636.00	OWSG MWD rev2 - Standard	02 <12.25">SDI MWD [OWSG MWD REV.2-Standard] (1328')(1499'-2636')	McClellan 7H AWB	9/13/2022			
2636.00	7485.00	OWSG MWD rev2 - Standard	03 <8.75">SDI MWD [OWSG MWD REV.2-Standard] (2636')(2741'-7485')	McClellan 7H AWB	9/13/2022			
7485.00	22426.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 <8.5"> BH ATK Curve [HRGM+Short Spacing] (7485')(7597'-22379')	McClellan 7H AWB	9/13/2022			

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Actual Wellpath Report

McClellan 7H AWP Proj: 22426'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 7H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 7H AWB
Slot	Slot #07		

COMMENTS

Wellpath general comments

API: 47061018860000

BH Job #: 111431589

Rig: Patterson 277

Duration: 9/13/2022 - 9/15/2022

01_<17.5"> Javins Inertial Gyro [Northseeking] (78'-1328')

02_<12.25">SDI MWD [OWSG MWD REV.2-Standard] (1328')(1499'-2636')

03_<8.75">SDI MWD [OWSG MWD REV.2-Standard] (2636')(2741'-7485')

04_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7485')(7597'-22379')

Final Survey MD @ 22379'

Projected MD at TD: 22426'

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