

17910.36ft VS
08/28/2026

JUL 08 2026

WV Department of
Environmental Protection



Actual Wellpath Report

Upton 17H AWP PROJ: 27800'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 17H
Field	Marion	UWI	47049026010000
Facility	Upton Pad	Wellbore	Upton 17H AWP
Slot	17H		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet [26853]	Software System	WellArchitect® 7.0.1
North Reference	Grid	Report Generated By	Tranlam on 2025-12-22 at 1:27:24 PM
Scale	0.999942	Last Updated	2025-12-16
Convergence at slot	0.45° 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	-59.96	2.19	1769093.04	379672.43	39°32'24.8937"N	80°12'25.4984"W
Facility Reference Pt			1769090.85	379732.39	39°32'25.4861"N	80°12'25.5324"W
Field Reference Pt			1899554.81	433527.34	39°41'24.0000"N	79°44'41.9999"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 571 (KB) to Facility Vertical Datum	1391.00ft
Horizontal Reference Pt	Slot	Patterson 571 (KB) to Mean Sea Level	1391.00ft
Vertical Reference Pt	Patterson 571 (KB)	Patterson 571 (KB) to Mud Line at Slot (17H)	25.00ft
MD Reference Pt	Patterson 571 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	324.080°

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WELLPATH DATA (302 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]
0.00†	0.000	67.350	0.00	0.00	0.00	0.00	1769093.04	379672.43	39°32'24.8937"N	80°12'25.4984"W	0.00	0.000	0.00
25.00	0.000	67.350	25.00	0.00	0.00	0.00	1769093.04	379672.43	39°32'24.8937"N	80°12'25.4984"W	0.00	0.000	0.00
50.00	0.130	67.350	50.00	-0.01	0.01	0.03	1769093.07	379672.44	39°32'24.8938"N	80°12'25.4981"W	0.03	67.350	0.52
100.00	0.100	107.130	100.00	-0.05	0.02	0.12	1769093.16	379672.45	39°32'24.8939"N	80°12'25.4969"W	0.12	80.594	0.17
150.00	0.140	331.290	150.00	-0.03	0.06	0.13	1769093.17	379672.49	39°32'24.8943"N	80°12'25.4967"W	0.15	65.421	0.45
200.00	0.090	342.710	200.00	0.07	0.15	0.09	1769093.13	379672.58	39°32'24.8952"N	80°12'25.4973"W	0.18	31.111	0.11
250.00	0.110	324.250	250.00	0.15	0.23	0.05	1769093.09	379672.66	39°32'24.8959"N	80°12'25.4978"W	0.23	12.802	0.08
300.00	0.100	164.190	300.00	0.16	0.23	0.04	1769093.08	379672.66	39°32'24.8959"N	80°12'25.4980"W	0.23	9.008	0.41
350.00	0.080	300.150	350.00	0.15	0.20	0.02	1769093.06	379672.63	39°32'24.8956"N	80°12'25.4982"W	0.20	4.954	0.33
400.00	0.050	323.210	400.00	0.21	0.24	-0.03	1769093.01	379672.67	39°32'24.8960"N	80°12'25.4988"W	0.24	353.739	0.08
450.00	0.050	92.600	450.00	0.21	0.25	-0.02	1769093.02	379672.68	39°32'24.8961"N	80°12'25.4987"W	0.25	356.114	0.18
500.00	0.130	230.640	500.00	0.20	0.22	-0.04	1769093.00	379672.65	39°32'24.8958"N	80°12'25.4989"W	0.22	349.679	0.34
550.00	0.140	181.360	550.00	0.15	0.12	-0.08	1769092.96	379672.55	39°32'24.8948"N	80°12'25.4995"W	0.15	324.431	0.23
600.00	0.110	126.680	600.00	0.05	0.03	-0.05	1769092.99	379672.46	39°32'24.8939"N	80°12'25.4990"W	0.06	300.917	0.24
650.00	0.200	67.230	650.00	-0.01	0.03	0.07	1769093.11	379672.46	39°32'24.8940"N	80°12'25.4975"W	0.08	64.880	0.34
700.00	0.070	66.610	700.00	-0.04	0.08	0.18	1769093.22	379672.51	39°32'24.8945"N	80°12'25.4961"W	0.20	66.191	0.26
883.00	0.160	232.310	883.00	-0.07	-0.03	0.08	1769093.12	379672.40	39°32'24.8933"N	80°12'25.4974"W	0.09	111.957	0.12
977.00	0.270	224.550	977.00	-0.11	-0.27	-0.18	1769092.86	379672.16	39°32'24.8910"N	80°12'25.5007"W	0.32	213.470	0.12
1072.00	0.720	225.010	1071.99	-0.25	-0.85	-0.76	1769092.28	379671.58	39°32'24.8852"N	80°12'25.5080"W	1.14	221.658	0.47
1166.00	1.300	222.590	1165.98	-0.55	-2.05	-1.90	1769091.14	379670.38	39°32'24.8732"N	80°12'25.5224"W	2.80	222.721	0.62
1261.00	1.370	203.320	1260.95	-1.35	-3.89	-3.08	1769089.96	379668.54	39°32'24.8550"N	80°12'25.5373"W	4.96	218.331	0.48
1356.00	1.330	175.220	1355.93	-2.87	-6.03	-3.43	1769089.61	379666.40	39°32'24.8338"N	80°12'25.5416"W	6.94	209.650	0.69
1450.00	1.420	146.680	1449.90	-4.97	-8.09	-2.70	1769090.34	379664.34	39°32'24.8135"N	80°12'25.5321"W	8.53	198.470	0.73
1545.00	1.500	119.600	1544.87	-7.28	-9.69	-0.98	1769092.06	379662.74	39°32'24.7978"N	80°12'25.5099"W	9.74	185.748	0.72
1640.00	1.660	99.630	1639.84	-9.39	-10.54	1.46	1769094.50	379661.90	39°32'24.7897"N	80°12'25.4787"W	10.64	172.097	0.60
1735.00	1.950	87.540	1734.79	-11.26	-10.70	4.43	1769097.47	379661.73	39°32'24.7883"N	80°12'25.4407"W	11.58	157.484	0.50
1830.00	2.400	85.820	1829.72	-13.20	-10.48	8.03	1769101.07	379661.95	39°32'24.7907"N	80°12'25.3948"W	13.21	142.535	0.48
1924.00	2.630	75.850	1923.63	-15.04	-9.81	12.09	1769105.13	379662.62	39°32'24.7976"N	80°12'25.3432"W	15.57	129.067	0.52
2019.00	2.730	61.450	2018.53	-16.13	-8.20	16.19	1769109.23	379664.23	39°32'24.8139"N	80°12'25.2910"W	18.14	116.856	0.71

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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]
2114.00	3.220	52.960	2113.40	-16.37	-5.51	20.30	1769113.34	379666.92	39°32'24.8408"N	80°12'25.2387"W	21.04	105.178	0.69
2208.00	3.330	54.020	2207.25	-16.32	-2.31	24.62	1769117.66	379670.12	39°32'24.8727"N	80°12'25.1839"W	24.73	95.369	0.13
2305.00	3.100	51.670	2304.09	-16.20	0.97	28.96	1769122.00	379673.40	39°32'24.9055"N	80°12'25.1289"W	28.97	88.086	0.27
2433.00	5.130	67.030	2431.76	-17.34	5.35	36.94	1769129.98	379677.78	39°32'24.9494"N	80°12'25.0274"W	37.33	81.763	1.79
2527.00	9.720	62.150	2524.95	-19.40	10.70	47.83	1769140.87	379683.13	39°32'25.0031"N	80°12'24.8889"W	49.02	77.393	4.92
2622.00	11.690	60.910	2618.29	-21.67	19.12	63.34	1769156.37	379691.55	39°32'25.0876"N	80°12'24.6919"W	66.16	73.198	2.09
2716.00	14.480	51.910	2709.85	-22.36	31.01	80.91	1769173.95	379703.44	39°32'25.2064"N	80°12'24.4687"W	86.65	69.032	3.67
2811.00	13.870	60.280	2801.97	-23.14	43.98	100.15	1769193.19	379716.41	39°32'25.3361"N	80°12'24.2245"W	109.38	66.292	2.25
2906.00	13.950	74.230	2894.21	-28.31	52.74	121.07	1769214.10	379725.17	39°32'25.4243"N	80°12'23.9584"W	132.06	66.460	3.52
3001.00	16.540	79.500	2985.86	-38.06	58.32	145.39	1769238.42	379730.75	39°32'25.4813"N	80°12'23.6485"W	156.65	68.143	3.09
3097.00	22.700	61.480	3076.33	-46.33	69.67	175.16	1769268.19	379742.10	39°32'25.5959"N	80°12'23.2697"W	188.50	68.308	8.93
3195.00	26.690	55.300	3165.36	-49.24	91.24	209.88	1769302.91	379763.67	39°32'25.8117"N	80°12'22.8286"W	228.86	66.504	4.84
3291.00	29.020	54.230	3250.23	-49.76	117.13	246.51	1769339.53	379789.56	39°32'26.0704"N	80°12'22.3637"W	272.92	64.584	2.48
3385.00	32.700	53.290	3330.91	-49.47	145.65	285.38	1769378.40	379818.07	39°32'26.3553"N	80°12'21.8705"W	320.40	62.962	3.95
3480.00	36.530	53.490	3409.08	-48.82	177.82	328.69	1769421.71	379850.24	39°32'26.6766"N	80°12'21.3208"W	373.71	61.587	4.03
3576.00	40.870	56.420	3483.99	-49.81	212.21	377.85	1769470.87	379884.63	39°32'27.0203"N	80°12'20.6968"W	433.36	60.680	4.91

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Facility	Upton Pad	Wellbore	Upton 17H AWB
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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]
3670.00	43.640	61.490	3553.58	-55.25	244.72	432.00	1769525.01	379917.14	39°32'27.3457"N	80°12'20.0089"W	496.50	60.469	4.67
3766.00	48.220	62.310	3620.33	-64.65	277.18	492.84	1769585.85	379949.60	39°32'27.6713"N	80°12'19.2356"W	565.44	60.646	4.81
3861.00	48.970	63.710	3683.17	-75.72	309.51	556.33	1769649.34	379981.93	39°32'27.9957"N	80°12'18.4284"W	636.63	60.911	1.36
3955.00	49.650	64.190	3744.45	-87.94	340.81	620.36	1769713.37	380013.22	39°32'28.3100"N	80°12'17.6142"W	707.82	61.217	0.82
4050.00	47.980	65.430	3807.01	-101.24	371.25	685.05	1769778.05	380043.66	39°32'28.6158"N	80°12'16.7915"W	779.18	61.545	2.01
4145.00	46.740	66.420	3871.36	-115.58	399.76	748.85	1769841.85	380072.17	39°32'28.9026"N	80°12'15.9800"W	848.88	61.905	1.51
4239.00	46.180	66.610	3936.11	-130.25	426.92	811.35	1769904.34	380099.32	39°32'29.1758"N	80°12'15.1850"W	916.81	62.247	0.61
4335.00	45.000	66.370	4003.29	-144.99	454.27	874.23	1769967.22	380126.67	39°32'29.4510"N	80°12'14.3851"W	985.21	62.543	1.24
4433.00	44.750	63.400	4072.74	-157.95	483.61	936.83	1770029.81	380156.01	39°32'29.7458"N	80°12'13.5891"W	1054.29	62.696	2.15
4528.00	44.190	61.550	4140.54	-167.67	514.36	995.84	1770088.82	380186.76	39°32'30.0542"N	80°12'12.8388"W	1120.83	62.683	1.49
4622.00	42.650	61.080	4208.81	-175.81	545.37	1052.52	1770145.50	380217.76	39°32'30.3651"N	80°12'12.1185"W	1185.42	62.609	1.67
4717.00	41.680	58.270	4279.23	-182.04	577.54	1107.56	1770200.54	380249.94	39°32'30.6873"N	80°12'11.4191"W	1249.10	62.460	2.23
4811.00	41.890	58.300	4349.33	-186.63	610.47	1160.85	1770253.82	380282.86	39°32'31.0169"N	80°12'10.7423"W	1311.58	62.261	0.22
4906.00	41.740	58.160	4420.13	-191.22	643.82	1214.69	1770307.66	380316.21	39°32'31.3506"N	80°12'10.0583"W	1374.77	62.075	0.19
5000.00	40.950	60.150	4490.70	-196.70	675.66	1268.00	1770360.96	380348.05	39°32'31.6694"N	80°12'9.3811"W	1436.78	61.949	1.63
5095.00	39.680	62.090	4563.14	-204.22	705.35	1321.80	1770414.76	380377.74	39°32'31.9670"N	80°12'8.6972"W	1498.23	61.914	1.88
5189.00	39.820	62.550	4635.41	-212.84	733.28	1375.03	1770467.99	380405.66	39°32'32.2471"N	80°12'8.0206"W	1558.33	61.930	0.35
5284.00	40.840	59.400	4707.84	-220.20	763.11	1428.77	1770521.72	380435.50	39°32'32.5461"N	80°12'7.3376"W	1619.79	61.893	2.40
5379.00	41.430	59.340	4779.39	-225.96	794.95	1482.54	1770575.49	380467.34	39°32'32.8649"N	80°12'6.6544"W	1682.23	61.799	0.62
5473.00	41.830	58.390	4849.65	-231.17	827.24	1535.99	1770628.94	380499.62	39°32'33.1882"N	80°12'5.9754"W	1744.59	61.694	0.79
5568.00	42.370	60.150	4920.14	-236.93	859.78	1590.74	1770683.68	380532.16	39°32'33.5140"N	80°12'5.2798"W	1808.22	61.609	1.37
5663.00	44.030	61.730	4989.39	-244.71	891.35	1647.58	1770740.52	380563.73	39°32'33.8304"N	80°12'4.5574"W	1873.24	61.586	2.09
5758.00	44.470	63.510	5057.44	-254.56	921.83	1706.44	1770799.38	380594.21	39°32'34.1361"N	80°12'3.8091"W	1939.52	61.622	1.39
5853.00	44.010	65.190	5125.51	-266.37	950.53	1766.18	1770859.12	380622.90	39°32'34.4243"N	80°12'3.0494"W	2005.72	61.712	1.33
5947.00	43.340	67.810	5193.50	-280.32	976.41	1825.70	1770918.63	380648.78	39°32'34.6847"N	80°12'2.2923"W	2070.40	61.861	2.05
6042.00	43.320	67.800	5262.60	-295.79	1001.04	1886.06	1770978.98	380673.41	39°32'34.9327"N	80°12'1.5243"W	2135.25	62.043	0.02
6137.00	44.270	64.970	5331.18	-309.78	1027.38	1946.28	1771039.20	380699.75	39°32'35.1977"N	80°12'0.7582"W	2200.80	62.172	2.29
6232.00	44.030	62.230	5399.35	-320.73	1056.80	2005.54	1771098.46	380729.16	39°32'35.4930"N	80°12'0.0047"W	2266.94	62.214	2.02
6327.00	43.630	59.770	5467.89	-328.66	1088.68	2063.08	1771155.99	380761.05	39°32'35.8125"N	80°11'59.2734"W	2332.70	62.179	1.84

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6422.00	43.320	58.470	5536.83	-334.40	1122.23	2119.17	1771212.08	380794.59	39°32'36.1484"N	80°11'58.5607"W	2397.97	62.096	1.00
6516.00	42.550	62.780	5605.66	-341.68	1153.63	2174.93	1771267.84	380826.00	39°32'36.4631"N	80°11'57.8521"W	2461.95	62.057	3.23
6611.00	42.800	66.370	5675.52	-353.41	1181.27	2233.07	1771325.98	380853.63	39°32'36.7406"N	80°11'57.1127"W	2526.26	62.122	2.57
6705.00	42.730	64.780	5744.53	-366.13	1207.66	2291.18	1771384.09	380880.01	39°32'37.0059"N	80°11'56.3736"W	2589.97	62.207	1.15
6803.00	41.980	62.710	5816.96	-377.22	1236.85	2350.39	1771443.29	380909.21	39°32'37.2990"N	80°11'55.6207"W	2655.97	62.245	1.62
6898.00	41.530	62.260	5887.83	-386.47	1266.08	2406.50	1771499.40	380938.43	39°32'37.5921"N	80°11'54.9073"W	2719.23	62.251	0.57
6993.00	40.770	59.440	5959.37	-393.85	1296.51	2461.09	1771553.98	380968.86	39°32'37.8971"N	80°11'54.2135"W	2781.71	62.220	2.11
7088.00	41.190	60.080	6031.08	-400.02	1327.89	2514.91	1771607.80	381000.24	39°32'38.2113"N	80°11'53.5296"W	2843.95	62.166	0.63
7132.00	41.610	61.900	6064.09	-403.52	1341.99	2540.36	1771633.25	381014.34	39°32'38.3527"N	80°11'53.2062"W	2873.04	62.154	2.90
7227.00	41.420	61.390	6135.23	-411.81	1371.90	2595.77	1771688.66	381044.25	39°32'38.6525"N	80°11'52.5019"W	2936.01	62.143	0.41
7322.00	43.090	61.470	6205.54	-419.98	1402.45	2651.87	1771744.75	381074.79	39°32'38.9587"N	80°11'51.7888"W	2999.88	62.128	1.76
7416.00	42.970	60.970	6274.25	-427.95	1433.33	2708.09	1771800.97	381105.67	39°32'39.2682"N	80°11'51.0742"W	3064.02	62.109	0.38
7510.00	42.220	60.220	6343.45	-435.18	1464.56	2763.52	1771856.39	381136.90	39°32'39.5811"N	80°11'50.3698"W	3127.61	62.078	0.96
7605.00	43.170	61.080	6413.27	-442.55	1496.13	2819.67	1771912.54	381168.47	39°32'39.8974"N	80°11'49.6562"W	3192.01	62.049	1.17
7700.00	42.920	60.350	6482.70	-450.04	1527.85	2876.23	1771969.09	381200.19	39°32'40.2152"N	80°11'48.9374"W	3256.84	62.023	0.59
7795.00	42.930	60.440	6552.26	-457.16	1559.81	2932.48	1772025.34	381232.15	39°32'40.5354"N	80°11'48.2225"W	3321.51	61.991	0.07

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Actual Wellpath Report

Upton 17H AWP PROJ: 27800'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 17H
Field	Marion	UWI	47049026010000
Facility	Upton Pad	Wellbore	Upton 17H AWB
Slot	17H		

WELLPATH DATA (302 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]
7890.00	43.180	61.060	6621.68	-464.69	1591.50	2989.06	1772081.92	381263.84	39°32'40.8529"N	80°11'47.5033"W	3386.35	61.967	0.52
7985.00	43.330	59.770	6690.87	-471.88	1623.64	3045.67	1772138.53	381295.97	39°32'41.1749"N	80°11'46.7839"W	3451.42	61.938	0.94
8079.00	42.830	59.440	6759.53	-478.06	1656.12	3101.05	1772193.91	381328.45	39°32'41.5002"N	80°11'46.0802"W	3515.58	61.895	0.58
8174.00	43.420	59.410	6828.87	-484.11	1689.16	3156.96	1772249.81	381361.49	39°32'41.8309"N	80°11'45.3698"W	3580.46	61.851	0.62
8269.00	43.810	60.250	6897.65	-490.67	1722.09	3213.62	1772306.47	381394.42	39°32'42.1607"N	80°11'44.6498"W	3645.95	61.814	0.74
8362.00	43.690	59.690	6964.83	-497.27	1754.27	3269.30	1772362.14	381426.60	39°32'42.4830"N	80°11'43.9423"W	3710.23	61.782	0.44
8457.00	44.300	59.490	7033.17	-503.61	1787.67	3326.20	1772419.04	381460.00	39°32'42.8175"N	80°11'43.2191"W	3776.16	61.744	0.66
8552.00	44.550	59.470	7101.01	-509.87	1821.44	3383.49	1772476.33	381493.77	39°32'43.1556"N	80°11'42.4913"W	3842.61	61.705	0.26
8646.00	44.500	59.640	7168.03	-516.16	1854.84	3440.31	1772533.15	381527.16	39°32'43.4900"N	80°11'41.7692"W	3908.48	61.669	0.14
8740.00	44.130	59.880	7235.29	-522.66	1887.92	3497.05	1772589.88	381560.23	39°32'43.8212"N	80°11'41.0482"W	3974.11	61.637	0.43
8835.00	43.840	59.260	7303.64	-528.97	1921.33	3553.93	1772646.76	381593.65	39°32'44.1558"N	80°11'40.3254"W	4040.04	61.603	0.55
8929.00	43.510	50.140	7371.70	-529.68	1958.75	3606.81	1772699.63	381631.06	39°32'44.5296"N	80°11'39.6542"W	4104.36	61.495	6.71
9024.00	42.190	41.320	7441.41	-520.38	2003.71	3653.02	1772745.84	381676.02	39°32'44.9775"N	80°11'39.0687"W	4166.46	61.255	6.46
9118.00	45.820	35.150	7509.04	-502.46	2055.02	3693.29	1772786.11	381727.32	39°32'45.4876"N	80°11'38.5596"W	4226.53	60.908	5.97
9213.00	47.730	24.240	7574.21	-473.87	2115.02	3727.40	1772820.21	381787.32	39°32'46.0832"N	80°11'38.1302"W	4285.65	60.428	8.60
9307.00	50.730	16.090	7635.64	-434.12	2181.77	3751.79	1772844.60	381854.07	39°32'46.7448"N	80°11'37.8254"W	4340.05	59.821	7.30
9402.00	52.330	9.060	7694.79	-384.85	2254.30	3767.91	1772860.73	381926.59	39°32'47.4628"N	80°11'37.6267"W	4390.79	59.108	6.03
9496.00	56.340	359.950	7749.66	-326.73	2330.29	3773.75	1772866.56	382002.58	39°32'48.2142"N	80°11'37.5598"W	4435.25	58.305	8.95
9590.00	62.630	350.320	7797.45	-257.40	2410.78	3766.68	1772859.49	382083.06	39°32'49.0091"N	80°11'37.6580"W	4472.10	57.380	11.07
9685.00	66.940	344.520	7837.94	-178.52	2494.58	3747.90	1772840.71	382166.86	39°32'49.8359"N	80°11'37.9060"W	4502.18	56.353	7.15
9781.00	71.850	339.930	7871.73	-93.17	2580.07	3720.43	1772813.24	382252.35	39°32'50.6787"N	80°11'38.2650"W	4527.51	55.259	6.79
9875.00	76.100	334.690	7897.69	-5.26	2663.36	3685.56	1772778.38	382335.63	39°32'51.4992"N	80°11'38.7184"W	4547.18	54.146	7.01
9970.00	81.220	329.980	7916.37	86.86	2745.79	3642.31	1772735.13	382418.05	39°32'52.3105"N	80°11'39.2786"W	4561.33	52.989	7.26
10065.00	84.020	324.770	7928.58	180.88	2825.09	3591.52	1772684.35	382497.35	39°32'53.0903"N	80°11'39.9347"W	4569.48	51.811	6.19
10160.00	87.350	323.060	7935.73	275.59	2901.63	3535.74	1772628.56	382573.89	39°32'53.8425"N	80°11'40.6544"W	4573.94	50.626	3.94
10255.00	88.610	323.560	7939.08	370.52	2977.76	3479.01	1772571.84	382650.01	39°32'54.5906"N	80°11'41.3861"W	4579.37	49.439	1.43
10350.00	89.290	323.290	7940.82	465.50	3054.04	3422.41	1772515.25	382726.29	39°32'55.3401"N	80°11'42.1161"W	4586.95	48.255	0.77
10443.00	89.480	323.220	7941.82	558.48	3128.56	3366.78	1772459.62	382800.80	39°32'56.0723"N	80°11'42.8337"W	4595.99	47.100	0.22
10538.00	89.600	323.310	7942.58	653.47	3204.69	3309.96	1772402.80	382876.93	39°32'56.8203"N	80°11'43.5665"W	4607.15	45.926	0.16

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WELLPATH DATA (302 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]
10632.00	89.320	323.590	7943.46	747.46	3280.20	3253.98	1772346.83	382952.43	39°32'57.5623"N	80°11'44.2886"W	4620.40	44.770	0.42
10728.00	89.540	323.510	7944.42	843.45	3357.42	3196.95	1772289.80	383029.64	39°32'58.3210"N	80°11'45.0243"W	4636.03	43.598	0.24
10822.00	90.580	324.250	7944.32	937.45	3433.35	3141.54	1772234.39	383105.57	39°32'59.0672"N	80°11'45.7391"W	4653.72	42.459	1.36
10917.00	92.190	325.870	7942.02	1032.40	3511.19	3087.15	1772180.01	383183.41	39°32'59.8324"N	80°11'46.4411"W	4675.36	41.323	2.40
11012.00	92.990	324.200	7937.73	1127.29	3588.96	3032.77	1772125.63	383261.18	39°33'0.5968"N	80°11'47.1431"W	4698.76	40.199	1.95
11107.00	92.520	323.070	7933.16	1222.17	3665.37	2976.51	1772069.37	383337.58	39°33'1.3476"N	80°11'47.8689"W	4721.71	39.079	1.29
11202.00	93.050	324.490	7928.55	1317.06	3741.92	2920.44	1772013.30	383414.13	39°33'2.0998"N	80°11'48.5922"W	4746.68	37.971	1.59
11296.00	91.320	323.220	7924.96	1410.98	3817.77	2865.04	1771957.91	383489.97	39°33'2.8452"N	80°11'49.3070"W	4773.24	36.886	2.28
11391.00	91.570	323.550	7922.57	1505.94	3894.00	2808.40	1771901.27	383566.19	39°33'3.5942"N	80°11'50.0376"W	4801.07	35.800	0.44
11486.00	91.290	323.660	7920.20	1600.91	3970.44	2752.05	1771844.92	383642.64	39°33'4.3454"N	80°11'50.7646"W	4830.96	34.727	0.32
11581.00	90.860	323.260	7918.42	1695.89	4046.76	2695.49	1771788.37	383718.94	39°33'5.0952"N	80°11'51.4941"W	4862.30	33.667	0.62
11676.00	92.960	323.990	7915.25	1790.83	4123.20	2639.19	1771732.07	383795.38	39°33'5.8463"N	80°11'52.2205"W	4895.52	32.623	2.34
11770.00	93.170	323.230	7910.22	1884.69	4198.76	2583.50	1771676.38	383870.94	39°33'6.5888"N	80°11'52.9389"W	4929.91	31.604	0.84
11865.00	91.720	321.530	7906.17	1979.55	4273.93	2525.56	1771618.45	383946.11	39°33'7.3273"N	80°11'53.6860"W	4964.37	30.580	2.35
11960.00	93.170	320.980	7902.12	2074.35	4347.96	2466.16	1771559.06	384020.13	39°33'8.0543"N	80°11'54.4516"W	4998.67	29.562	1.63
12054.00	94.190	323.590	7896.08	2168.10	4422.16	2408.79	1771501.68	384094.32	39°33'8.7832"N	80°11'55.1915"W	5035.64	28.577	2.98

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Actual Wellpath Report

Upton 17H AWP PROJ: 27800'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 17H
Field	Marion	UWI	47049026010000
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WELLPATH DATA (302 stations)

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12149.00	92.650	322.780	7890.42	2262.92	4498.07	2351.96	1771444.86	384170.23	39°33'9.5291"N	80°11'55.9245"W	5075.86	27.604	1.83
12244.00	92.190	323.570	7886.41	2357.82	4574.05	2295.07	1771387.97	384246.20	39°33'10.2756"N	80°11'56.6583"W	5117.55	26.646	0.96
12339.00	91.020	323.220	7883.74	2452.77	4650.28	2238.45	1771331.35	384322.43	39°33'11.0246"N	80°11'57.3888"W	5160.98	25.704	1.29
12434.00	90.340	322.930	7882.62	2547.75	4726.22	2181.38	1771274.29	384398.37	39°33'11.7707"N	80°11'58.1249"W	5205.34	24.776	0.78
12528.00	90.340	323.330	7882.06	2641.74	4801.42	2124.98	1771217.89	384473.56	39°33'12.5095"N	80°11'58.8524"W	5250.63	23.873	0.43
12622.00	90.000	323.120	7881.78	2735.72	4876.71	2068.70	1771161.62	384548.85	39°33'13.2493"N	80°11'59.5783"W	5297.34	22.987	0.43
12717.00	90.550	323.560	7881.32	2830.71	4952.92	2011.98	1771104.90	384625.05	39°33'13.9981"N	80°12'0.3100"W	5345.98	22.108	0.74
12811.00	90.740	323.980	7880.27	2924.71	5028.74	1956.43	1771049.35	384700.87	39°33'14.7431"N	80°12'1.0268"W	5395.91	21.259	0.49
12907.00	90.710	324.680	7879.05	3020.70	5106.72	1900.46	1770993.38	384778.84	39°33'15.5095"N	80°12'1.7491"W	5448.88	20.413	0.73
13001.00	90.890	325.490	7877.74	3114.67	5183.79	1846.66	1770939.59	384855.91	39°33'16.2670"N	80°12'2.4436"W	5502.90	19.608	0.88
13096.00	90.740	325.040	7876.39	3209.64	5261.85	1792.54	1770885.47	384933.97	39°33'17.0343"N	80°12'3.1423"W	5558.80	18.812	0.50
13190.00	90.710	325.020	7875.20	3303.62	5338.88	1738.67	1770831.60	385010.99	39°33'17.7913"N	80°12'3.8378"W	5614.85	18.038	0.04
13285.00	91.570	326.020	7873.31	3398.57	5417.17	1684.90	1770777.83	385089.27	39°33'18.5610"N	80°12'4.5321"W	5673.15	17.277	1.39
13380.00	91.200	325.790	7871.01	3493.50	5495.82	1631.66	1770724.60	385167.92	39°33'19.3341"N	80°12'5.2196"W	5732.92	16.536	0.46
13475.00	89.690	323.120	7870.27	3588.48	5573.10	1576.44	1770669.38	385245.20	39°33'20.0936"N	80°12'5.9323"W	5791.77	15.794	3.23
13570.00	90.520	324.610	7870.10	3683.48	5649.83	1520.42	1770613.37	385321.92	39°33'20.8475"N	80°12'6.6551"W	5850.83	15.062	1.80
13665.00	90.310	324.950	7869.41	3778.47	5727.43	1465.63	1770558.59	385399.52	39°33'21.6103"N	80°12'7.3623"W	5911.99	14.354	0.42
13760.00	90.710	322.900	7868.57	3873.46	5804.21	1409.70	1770502.65	385476.29	39°33'22.3647"N	80°12'8.0841"W	5972.95	13.651	2.20
13855.00	92.280	324.210	7866.09	3968.41	5880.60	1353.29	1770446.24	385552.68	39°33'23.1153"N	80°12'8.8119"W	6034.30	12.960	2.15
13948.00	92.190	323.600	7862.46	4061.34	5955.69	1298.54	1770391.50	385627.76	39°33'23.8532"N	80°12'9.5184"W	6095.61	12.300	0.66
14043.00	92.460	324.740	7858.61	4156.26	6032.65	1242.97	1770335.94	385704.71	39°33'24.6094"N	80°12'10.2354"W	6159.37	11.642	1.23
14138.00	91.260	324.040	7855.52	4251.21	6109.84	1187.69	1770280.66	385781.90	39°33'25.3680"N	80°12'10.9490"W	6224.21	11.001	1.46
14233.00	90.580	323.800	7854.00	4346.20	6186.61	1131.75	1770224.72	385858.67	39°33'26.1224"N	80°12'11.6708"W	6289.27	10.367	0.76
14328.00	90.310	324.520	7853.26	4441.19	6263.62	1076.13	1770169.10	385935.67	39°33'26.8792"N	80°12'12.3887"W	6355.39	9.749	0.81
14423.00	90.340	324.460	7852.72	4536.19	6340.95	1020.95	1770113.93	386013.00	39°33'27.6391"N	80°12'13.1009"W	6422.61	9.147	0.07
14517.00	90.090	324.270	7852.37	4630.19	6417.34	966.18	1770059.16	386089.39	39°33'28.3899"N	80°12'13.8078"W	6489.67	8.562	0.33
14611.00	90.280	324.390	7852.06	4724.18	6493.71	911.37	1770004.36	386165.75	39°33'29.1403"N	80°12'14.5152"W	6557.35	7.989	0.24
14705.00	90.740	323.760	7851.23	4818.18	6569.82	856.22	1769949.21	386241.86	39°33'29.8883"N	80°12'15.2269"W	6625.38	7.425	0.83
14800.00	89.690	324.010	7850.87	4913.18	6646.57	800.23	1769893.22	386318.60	39°33'30.6424"N	80°12'15.9495"W	6694.57	6.865	1.14

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WELLPATH DATA (302 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]
14895.00	89.970	322.920	7851.15	5008.17	6722.90	743.67	1769836.67	386394.92	39°33'31.3924"N	80°12'16.6792"W	6763.90	6.312	1.18
14990.00	89.420	324.590	7851.66	5103.16	6799.51	687.51	1769780.51	386471.53	39°33'32.1452"N	80°12'17.4039"W	6834.18	5.774	1.85
15084.00	89.320	324.100	7852.69	5197.16	6875.88	632.72	1769725.72	386547.90	39°33'32.8957"N	80°12'18.1111"W	6904.93	5.258	0.53
15179.00	88.920	323.610	7854.15	5292.14	6952.59	576.69	1769669.70	386624.60	39°33'33.6494"N	80°12'18.8341"W	6976.47	4.742	0.67
15274.00	89.940	324.480	7855.10	5387.14	7029.49	520.92	1769613.93	386701.49	39°33'34.4050"N	80°12'19.5540"W	7048.76	4.238	1.41
15368.00	89.660	324.500	7855.42	5481.13	7106.00	466.32	1769559.33	386778.00	39°33'35.1570"N	80°12'20.2587"W	7121.29	3.755	0.30
15463.00	89.880	325.070	7855.81	5576.13	7183.62	411.54	1769504.55	386855.61	39°33'35.9198"N	80°12'20.9659"W	7195.39	3.279	0.64
15557.00	89.510	323.960	7856.31	5670.12	7260.15	356.97	1769449.99	386932.15	39°33'36.6720"N	80°12'21.6703"W	7268.92	2.815	1.24
15652.00	89.260	324.260	7857.33	5765.11	7337.11	301.29	1769394.31	387009.10	39°33'37.4282"N	80°12'22.3890"W	7343.30	2.351	0.41
15748.00	89.450	324.800	7858.41	5861.11	7415.29	245.58	1769338.61	387087.28	39°33'38.1965"N	80°12'23.1081"W	7419.36	1.897	0.60
15842.00	90.340	324.670	7858.58	5955.10	7492.04	191.31	1769284.34	387164.02	39°33'38.9508"N	80°12'23.8087"W	7494.48	1.463	0.96
15936.00	90.430	324.570	7857.95	6049.09	7568.68	136.89	1769229.92	387240.66	39°33'39.7040"N	80°12'24.5113"W	7569.92	1.036	0.14
16031.00	90.090	324.230	7857.52	6144.09	7645.92	81.59	1769174.62	387317.89	39°33'40.4630"N	80°12'25.2251"W	7646.36	0.611	0.51
16126.00	90.280	324.980	7857.21	6239.08	7723.37	26.56	1769119.60	387395.33	39°33'41.2241"N	80°12'25.9354"W	7723.41	0.197	0.81
16221.00	89.850	324.120	7857.10	6334.08	7800.75	-28.54	1769064.50	387472.71	39°33'41.9846"N	80°12'26.6467"W	7800.81	359.790	1.01
16316.00	89.970	324.430	7857.25	6429.08	7877.88	-84.01	1769009.04	387549.83	39°33'42.7425"N	80°12'27.3627"W	7878.32	359.389	0.35

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Actual Wellpath Report

Upton 17H AWP PROJ: 27800'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 17H
Field	Marion	UWI	47049026010000
Facility	Upton Pad	Wellbore	Upton 17H AWB
Slot	17H		

WELLPATH DATA (302 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]
16411.00	90.220	324.700	7857.09	6524.07	7955.28	-139.09	1768953.96	387627.23	39°33'43.5032"N	80°12'28.0737"W	7956.50	358.998	0.39
16506.00	90.120	324.350	7856.81	6619.07	8032.64	-194.22	1768898.83	387704.59	39°33'44.2634"N	80°12'28.7855"W	8034.99	358.615	0.38
16601.00	90.430	324.380	7856.36	6714.07	8109.85	-249.57	1768843.49	387781.80	39°33'45.0222"N	80°12'29.4999"W	8113.69	358.237	0.33
16696.00	90.580	324.560	7855.52	6809.06	8187.16	-304.77	1768788.29	387859.10	39°33'45.7819"N	80°12'30.2126"W	8192.83	357.868	0.25
16790.00	90.030	323.350	7855.02	6903.06	8263.16	-360.08	1768732.98	387935.10	39°33'46.5287"N	80°12'30.9264"W	8271.01	357.505	1.41
16885.00	90.740	323.940	7854.38	6998.05	8339.67	-416.39	1768676.67	388011.60	39°33'47.2804"N	80°12'31.6531"W	8350.06	357.142	0.97
16980.00	90.370	324.270	7853.46	7093.05	8416.63	-472.09	1768620.98	388088.55	39°33'48.0366"N	80°12'32.3720"W	8429.86	356.790	0.52
17075.00	90.400	323.680	7852.82	7188.05	8493.46	-527.96	1768565.11	388165.38	39°33'48.7915"N	80°12'33.0932"W	8509.85	356.443	0.62
17170.00	91.050	324.280	7851.62	7283.04	8570.29	-583.82	1768509.25	388242.20	39°33'49.5465"N	80°12'33.8142"W	8590.15	356.103	0.93
17265.00	90.060	322.940	7850.70	7378.03	8646.76	-640.18	1768452.90	388318.67	39°33'50.2978"N	80°12'34.5415"W	8670.42	355.766	1.75
17360.00	90.650	324.060	7850.11	7473.02	8723.12	-696.69	1768396.40	388395.02	39°33'51.0480"N	80°12'35.2707"W	8750.90	355.434	1.33
17455.00	90.220	324.240	7849.39	7568.01	8800.12	-752.32	1768340.76	388472.02	39°33'51.8047"N	80°12'35.9888"W	8832.22	355.114	0.49
17550.00	89.600	324.720	7849.54	7663.01	8877.44	-807.52	1768285.57	388549.34	39°33'52.5645"N	80°12'36.7014"W	8914.09	354.803	0.83
17645.00	90.800	324.530	7849.21	7758.00	8954.90	-862.51	1768230.58	388626.79	39°33'53.3257"N	80°12'37.4114"W	8996.34	354.498	1.28
17740.00	90.770	324.720	7847.91	7852.99	9032.35	-917.50	1768175.59	388704.24	39°33'54.0869"N	80°12'38.1214"W	9078.83	354.200	0.20
17835.00	90.220	323.750	7847.08	7947.99	9109.43	-973.03	1768120.07	388781.32	39°33'54.8443"N	80°12'38.8381"W	9161.25	353.903	1.17
17931.00	90.030	323.980	7846.88	8043.99	9186.97	-1029.64	1768063.47	388858.84	39°33'55.6061"N	80°12'39.5688"W	9244.48	353.605	0.31
18026.00	90.310	324.200	7846.59	8138.98	9263.91	-1085.35	1768007.75	388935.78	39°33'56.3622"N	80°12'40.2880"W	9327.27	353.318	0.37
18120.00	90.310	323.950	7846.08	8232.98	9340.03	-1140.51	1767952.60	389011.90	39°33'57.1101"N	80°12'40.9999"W	9409.40	353.038	0.27
18215.00	89.970	324.030	7845.85	8327.98	9416.87	-1196.36	1767896.75	389088.74	39°33'57.8652"N	80°12'41.7209"W	9492.57	352.760	0.37
18310.00	90.460	324.290	7845.50	8422.98	9493.89	-1251.98	1767841.13	389165.75	39°33'58.6219"N	80°12'42.4389"W	9576.08	352.488	0.58
18404.00	90.180	324.200	7844.97	8516.98	9570.17	-1306.91	1767786.21	389242.02	39°33'59.3715"N	80°12'43.1480"W	9658.99	352.224	0.31
18499.00	90.680	324.370	7844.26	8611.98	9647.30	-1362.36	1767730.76	389319.15	39°34'0.1294"N	80°12'43.8639"W	9743.02	351.962	0.56
18594.00	90.740	324.630	7843.08	8706.97	9724.63	-1417.52	1767675.60	389396.48	39°34'0.8894"N	80°12'44.5761"W	9827.40	351.707	0.28
18689.00	90.310	323.810	7842.21	8801.96	9801.70	-1473.07	1767620.06	389473.54	39°34'1.6467"N	80°12'45.2931"W	9911.77	351.453	0.97
18783.00	89.230	323.210	7842.59	8895.95	9877.27	-1528.96	1767564.17	389549.11	39°34'2.3891"N	80°12'46.0145"W	9994.91	351.201	1.31
18878.00	90.460	325.000	7842.84	8990.95	9954.22	-1584.66	1767508.48	389626.06	39°34'3.1453"N	80°12'46.7335"W	10079.57	350.955	2.29
18972.00	90.400	324.080	7842.14	9084.94	10030.79	-1639.19	1767453.95	389702.61	39°34'3.8976"N	80°12'47.4375"W	10163.84	350.719	0.98
19067.00	89.170	324.040	7842.50	9179.94	10107.70	-1694.95	1767398.19	389779.52	39°34'4.6534"N	80°12'48.1573"W	10248.83	350.481	1.30

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WELLPATH DATA (302 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]
19161.00	90.090	325.030	7843.10	9273.93	10184.26	-1749.48	1767343.66	389856.07	39°34'5.4057"N	80°12'48.8615"W	10333.43	350.253	1.44
19256.00	89.880	324.320	7843.13	9368.93	10261.77	-1804.41	1767288.73	389933.58	39°34'6.1674"N	80°12'49.5707"W	10419.20	350.027	0.78
19350.00	88.030	323.930	7844.84	9462.91	10337.92	-1859.49	1767233.66	390009.73	39°34'6.9156"N	80°12'50.2817"W	10503.82	349.803	2.01
19445.00	88.000	323.850	7848.13	9557.85	10414.62	-1915.44	1767177.71	390086.42	39°34'7.6693"N	80°12'51.0040"W	10589.30	349.579	0.09
19540.00	88.920	324.220	7850.69	9652.81	10491.48	-1971.21	1767121.94	390163.28	39°34'8.4245"N	80°12'51.7239"W	10675.06	349.359	1.04
19634.00	89.260	324.370	7852.18	9746.80	10567.80	-2026.07	1767067.10	390239.60	39°34'9.1745"N	80°12'52.4321"W	10760.27	349.147	0.40
19729.00	88.370	323.500	7854.14	9841.78	10644.58	-2081.98	1767011.19	390316.37	39°34'9.9288"N	80°12'53.1539"W	10846.28	348.933	1.31
19824.00	89.660	324.380	7855.78	9936.76	10721.36	-2137.89	1766955.28	390393.15	39°34'10.6833"N	80°12'53.8756"W	10932.44	348.723	1.64
19919.00	89.450	324.050	7856.51	10031.76	10798.43	-2193.44	1766899.73	390470.21	39°34'11.4405"N	80°12'54.5928"W	11018.95	348.518	0.41
20014.00	90.620	324.290	7856.46	10126.75	10875.45	-2249.05	1766844.13	390547.22	39°34'12.1973"N	80°12'55.3108"W	11105.56	348.316	1.26
20108.00	88.460	320.000	7857.21	10220.67	10949.64	-2306.71	1766786.46	390621.41	39°34'12.9260"N	80°12'56.0547"W	11189.98	348.104	5.11
20203.00	90.180	320.950	7858.34	10315.47	11022.91	-2367.17	1766726.02	390694.68	39°34'13.6453"N	80°12'56.8341"W	11274.22	347.880	2.07
20299.00	89.690	320.710	7858.45	10411.32	11097.34	-2427.80	1766665.38	390769.10	39°34'14.3761"N	80°12'57.6159"W	11359.80	347.660	0.57
20393.00	91.910	323.500	7857.13	10505.24	11171.50	-2485.52	1766607.67	390843.26	39°34'15.1045"N	80°12'58.3606"W	11444.66	347.457	3.79
20488.00	92.000	324.640	7853.89	10600.18	11248.38	-2541.24	1766551.96	390920.13	39°34'15.8598"N	80°12'59.0798"W	11531.86	347.269	1.20
20583.00	90.340	323.880	7851.95	10695.16	11325.47	-2596.71	1766496.48	390997.21	39°34'16.6173"N	80°12'59.7961"W	11619.34	347.086	1.92

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Actual Wellpath Report

Upton 17H AWP PROJ: 27800'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 17H
Field	Marion	UWI	47049026010000
Facility	Upton Pad	Wellbore	Upton 17H AWB
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WELLPATH DATA (302 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]
20677.00	89.940	323.520	7851.72	10789.15	11401.22	-2652.36	1766440.84	391072.97	39°34'17.3616"N	80°13'0.5144"W	11705.68	346.904	0.57
20772.00	89.630	323.760	7852.08	10884.15	11477.73	-2708.68	1766384.52	391149.47	39°34'18.1132"N	80°13'1.2414"W	11793.01	346.721	0.41
20866.00	89.940	324.030	7852.43	10978.15	11553.67	-2764.07	1766329.13	391225.41	39°34'18.8594"N	80°13'1.9565"W	11879.71	346.546	0.44
20961.00	90.150	324.250	7852.36	11073.15	11630.66	-2819.72	1766273.48	391302.39	39°34'19.6159"N	80°13'2.6750"W	11967.59	346.372	0.32
21056.00	90.000	324.490	7852.23	11168.15	11707.88	-2875.07	1766218.15	391379.61	39°34'20.3747"N	80°13'3.3896"W	12055.72	346.203	0.30
21150.00	90.000	324.020	7852.23	11262.15	11784.17	-2929.98	1766163.24	391455.89	39°34'21.1243"N	80°13'4.0986"W	12142.96	346.037	0.50
21246.00	90.090	324.660	7852.16	11358.14	11862.17	-2985.94	1766107.27	391533.89	39°34'21.8907"N	80°13'4.8213"W	12232.21	345.871	0.67
21340.00	89.170	324.760	7852.77	11452.13	11938.89	-3040.25	1766052.97	391610.61	39°34'22.6447"N	80°13'5.5225"W	12319.92	345.713	0.98
21435.00	88.980	323.980	7854.30	11547.12	12016.10	-3095.58	1765997.64	391687.81	39°34'23.4033"N	80°13'6.2370"W	12408.44	345.554	0.84
21530.00	89.050	324.270	7855.93	11642.11	12093.07	-3151.25	1765941.98	391764.77	39°34'24.1596"N	80°13'6.9557"W	12496.90	345.395	0.31
21624.00	89.910	324.040	7856.79	11736.10	12169.26	-3206.29	1765886.94	391840.96	39°34'24.9082"N	80°13'7.6664"W	12584.56	345.239	0.95
21718.00	89.880	324.290	7856.96	11830.10	12245.47	-3261.32	1765831.91	391917.16	39°34'25.6570"N	80°13'8.3770"W	12672.32	345.087	0.27
21814.00	90.220	324.260	7856.87	11926.10	12323.40	-3317.38	1765775.86	391995.09	39°34'26.4227"N	80°13'9.1008"W	12762.10	344.934	0.36
21908.00	90.370	324.170	7856.39	12020.10	12399.65	-3372.34	1765720.90	392071.34	39°34'27.1720"N	80°13'9.8105"W	12850.06	344.785	0.19
22003.00	89.940	324.320	7856.13	12115.10	12476.75	-3427.85	1765665.40	392148.43	39°34'27.9295"N	80°13'10.5273"W	12939.07	344.638	0.48
22098.00	90.370	324.320	7855.88	12210.10	12553.92	-3483.26	1765609.99	392225.59	39°34'28.6877"N	80°13'11.2427"W	13028.20	344.493	0.45
22192.00	90.370	324.320	7855.27	12304.09	12630.27	-3538.09	1765555.17	392301.94	39°34'29.4380"N	80°13'11.9507"W	13116.47	344.351	0.00
22287.00	90.150	323.930	7854.84	12399.09	12707.25	-3593.76	1765499.50	392378.91	39°34'30.1943"N	80°13'12.6695"W	13205.65	344.208	0.47
22381.00	90.250	324.110	7854.51	12493.09	12783.31	-3648.98	1765444.28	392454.97	39°34'30.9417"N	80°13'13.3826"W	13293.91	344.069	0.22
22476.00	89.780	324.030	7854.49	12588.09	12860.24	-3704.73	1765388.54	392531.89	39°34'31.6975"N	80°13'14.1023"W	13383.22	343.930	0.50
22571.00	90.340	324.170	7854.39	12683.09	12937.19	-3760.43	1765332.83	392608.84	39°34'32.4536"N	80°13'14.8216"W	13472.63	343.793	0.61
22666.00	90.150	324.590	7853.98	12778.09	13014.41	-3815.76	1765277.51	392686.06	39°34'33.2124"N	80°13'15.5361"W	13562.26	343.659	0.49
22761.00	90.150	323.860	7853.73	12873.09	13091.49	-3871.30	1765221.98	392763.13	39°34'33.9697"N	80°13'16.2532"W	13651.89	343.526	0.77
22855.00	90.580	324.800	7853.13	12967.08	13167.85	-3926.11	1765167.17	392839.49	39°34'34.7200"N	80°13'16.9610"W	13740.69	343.398	1.10
22950.00	90.340	324.370	7852.37	13062.08	13245.27	-3981.16	1765112.12	392916.90	39°34'35.4807"N	80°13'17.6720"W	13830.65	343.271	0.52
23045.00	90.740	324.240	7851.47	13157.07	13322.42	-4036.58	1765056.70	392994.05	39°34'36.2388"N	80°13'18.3877"W	13920.52	343.144	0.44
23139.00	91.080	324.340	7849.98	13251.06	13398.74	-4091.44	1765001.84	393070.36	39°34'36.9887"N	80°13'19.0962"W	14009.50	343.019	0.38
23234.00	91.020	324.380	7848.24	13346.04	13475.93	-4146.79	1764946.50	393147.55	39°34'37.7471"N	80°13'19.8109"W	14099.52	342.896	0.08
23328.00	90.980	324.320	7846.60	13440.03	13552.30	-4201.57	1764891.72	393223.92	39°34'38.4975"N	80°13'20.5183"W	14188.66	342.775	0.08

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WELLPATH DATA (302 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]
23422.00	90.650	324.240	7845.26	13534.02	13628.61	-4256.44	1764836.85	393300.22	39°34'39.2473"N	80°13'21.2269"W	14277.83	342.656	0.36
23516.00	90.800	324.820	7844.07	13628.00	13705.16	-4310.98	1764782.32	393376.77	39°34'39.9995"N	80°13'21.9313"W	14367.18	342.539	0.64
23611.00	90.800	324.260	7842.75	13722.99	13782.53	-4366.09	1764727.21	393454.13	39°34'40.7598"N	80°13'22.6431"W	14457.56	342.423	0.59
23706.00	90.620	324.330	7841.57	13817.98	13859.67	-4421.53	1764671.78	393531.27	39°34'41.5177"N	80°13'23.3590"W	14547.86	342.306	0.20
23801.00	89.970	324.070	7841.08	13912.98	13936.72	-4477.10	1764616.21	393608.31	39°34'42.2747"N	80°13'24.0766"W	14638.19	342.191	0.74
23896.00	90.980	324.390	7840.29	14007.98	14013.79	-4532.63	1764560.69	393685.38	39°34'43.0320"N	80°13'24.7937"W	14728.58	342.077	1.12
23990.00	91.350	324.840	7838.38	14101.95	14090.41	-4587.05	1764506.27	393762.00	39°34'43.7849"N	80°13'25.4966"W	14818.26	341.968	0.62
24085.00	91.380	324.490	7836.12	14196.92	14167.89	-4641.98	1764451.34	393839.47	39°34'44.5462"N	80°13'26.2060"W	14908.96	341.859	0.37
24180.00	91.600	324.110	7833.65	14291.89	14245.01	-4697.39	1764395.93	393916.59	39°34'45.3040"N	80°13'26.9217"W	14999.53	341.750	0.46
24275.00	92.430	324.810	7830.31	14386.83	14322.27	-4752.58	1764340.75	393993.84	39°34'46.0631"N	80°13'27.6345"W	15090.21	341.643	1.14
24370.00	92.370	324.800	7826.33	14481.73	14399.83	-4807.29	1764286.04	394071.40	39°34'46.8253"N	80°13'28.3411"W	15181.08	341.539	0.06
24465.00	91.690	324.420	7822.97	14576.67	14477.23	-4862.27	1764231.06	394148.79	39°34'47.5858"N	80°13'29.0513"W	15271.93	341.435	0.82
24560.00	91.850	324.680	7820.03	14671.62	14554.58	-4917.34	1764175.99	394226.14	39°34'48.3458"N	80°13'29.7626"W	15362.82	341.332	0.32
24655.00	91.880	325.260	7816.94	14766.56	14632.33	-4971.84	1764121.50	394303.88	39°34'49.1099"N	80°13'30.4667"W	15453.94	341.233	0.61
24750.00	92.430	324.530	7813.37	14861.48	14710.00	-5026.44	1764066.91	394381.54	39°34'49.8730"N	80°13'31.1719"W	15545.06	341.135	0.96
24845.00	92.460	324.780	7809.31	14956.39	14787.41	-5081.34	1764012.00	394458.96	39°34'50.6338"N	80°13'31.8812"W	15636.10	341.036	0.26

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Actual Wellpath Report

Upton 17H AWP PROJ: 27800'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 17H
Field	Marion	UWI	47049026010000
Facility	Upton Pad	Wellbore	Upton 17H AWB
Slot	17H		

WELLPATH DATA (302 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]
24940.00	92.220	324.590	7805.44	15051.31	14864.87	-5136.21	1763957.13	394536.40	39°34'51.3948"N	80°13'32.5899"W	15727.21	340.939	0.32
25034.00	92.120	324.850	7801.88	15145.23	14941.55	-5190.47	1763902.88	394613.08	39°34'52.1483"N	80°13'33.2908"W	15817.42	340.844	0.30
25128.00	92.520	324.970	7798.07	15239.15	15018.40	-5244.46	1763848.90	394689.93	39°34'52.9035"N	80°13'33.9883"W	15907.76	340.751	0.44
25222.00	91.570	323.310	7794.72	15333.08	15094.53	-5299.49	1763793.87	394766.05	39°34'53.6515"N	80°13'34.6989"W	15997.80	340.655	2.03
25316.00	92.310	323.620	7791.53	15427.02	15170.02	-5355.42	1763737.95	394841.53	39°34'54.3930"N	80°13'35.4210"W	16087.57	340.556	0.85
25411.00	92.310	323.760	7787.70	15521.94	15246.51	-5411.62	1763681.74	394918.02	39°34'55.1445"N	80°13'36.1468"W	16178.43	340.458	0.15
25505.00	91.350	322.990	7784.70	15615.88	15321.91	-5467.67	1763625.70	394993.42	39°34'55.8851"N	80°13'36.8704"W	16268.26	340.361	1.31
25600.00	90.800	323.690	7782.92	15710.86	15398.10	-5524.38	1763568.99	395069.61	39°34'56.6336"N	80°13'37.6026"W	16359.11	340.264	0.94
25695.00	89.660	323.240	7782.54	15805.85	15474.43	-5580.94	1763512.44	395145.93	39°34'57.3834"N	80°13'38.3327"W	16450.07	340.168	1.29
25790.00	89.940	323.490	7782.87	15900.84	15550.66	-5637.62	1763455.75	395222.16	39°34'58.1323"N	80°13'39.0646"W	16541.04	340.073	0.40
25885.00	90.150	322.580	7782.80	15995.83	15626.57	-5694.75	1763398.63	395298.06	39°34'58.8779"N	80°13'39.8021"W	16631.89	339.977	0.98
25980.00	91.200	323.640	7781.68	16090.80	15702.54	-5751.77	1763341.61	395374.03	39°34'59.6241"N	80°13'40.5382"W	16722.82	339.882	1.57
26074.00	89.510	323.280	7781.09	16184.79	15778.06	-5807.73	1763285.66	395449.54	39°35'0.3660"N	80°13'41.2608"W	16813.00	339.792	1.84
26169.00	89.660	323.060	7781.78	16279.78	15854.10	-5864.68	1763228.71	395525.57	39°35'1.1128"N	80°13'41.9960"W	16904.05	339.700	0.28
26263.00	88.280	323.270	7783.47	16373.75	15929.32	-5921.02	1763172.37	395600.79	39°35'1.8517"N	80°13'42.7234"W	16994.17	339.610	1.48
26358.00	88.650	323.470	7786.02	16468.71	16005.53	-5977.68	1763115.72	395677.00	39°35'2.6003"N	80°13'43.4549"W	17085.36	339.521	0.44
26453.00	89.720	323.710	7787.37	16563.69	16081.97	-6034.07	1763059.34	395753.44	39°35'3.3513"N	80°13'44.1830"W	17176.72	339.434	1.15
26547.00	90.400	323.750	7787.27	16657.69	16157.76	-6089.68	1763003.73	395829.22	39°35'4.0958"N	80°13'44.9011"W	17267.23	339.349	0.72
26642.00	90.180	323.200	7786.79	16752.68	16234.10	-6146.22	1762947.19	395905.55	39°35'4.8457"N	80°13'45.6311"W	17358.63	339.263	0.62
26736.00	90.250	323.780	7786.44	16846.68	16309.65	-6202.14	1762891.27	395981.10	39°35'5.5879"N	80°13'46.3533"W	17449.11	339.179	0.62
26831.00	89.780	323.820	7786.41	16941.68	16386.31	-6258.25	1762835.17	396057.76	39°35'6.3410"N	80°13'47.0778"W	17540.72	339.097	0.50
26925.00	89.380	324.250	7787.10	17035.67	16462.39	-6313.45	1762779.97	396133.83	39°35'7.0885"N	80°13'47.7908"W	17631.51	339.018	0.62
27020.00	89.600	324.270	7787.95	17130.67	16539.50	-6368.94	1762724.48	396210.93	39°35'7.8460"N	80°13'48.5075"W	17723.39	338.940	0.23
27115.00	89.850	324.490	7788.40	17225.67	16616.72	-6424.27	1762669.16	396288.15	39°35'8.6048"N	80°13'49.2222"W	17815.35	338.863	0.35
27210.00	89.080	324.190	7789.29	17320.66	16693.91	-6479.65	1762613.78	396365.33	39°35'9.3631"N	80°13'49.9376"W	17907.33	338.787	0.87
27305.00	88.250	324.010	7791.50	17415.63	16770.84	-6535.34	1762558.10	396442.26	39°35'10.1189"N	80°13'50.6568"W	17999.21	338.710	0.89
27399.00	88.250	324.710	7794.37	17509.59	16847.20	-6590.08	1762503.35	396518.61	39°35'10.8691"N	80°13'51.3640"W	18090.25	338.636	0.74
27493.00	88.340	324.800	7797.17	17603.54	16923.93	-6644.31	1762449.13	396595.34	39°35'11.6231"N	80°13'52.0645"W	18181.48	338.565	0.14
27589.00	87.850	324.200	7800.36	17699.48	17002.04	-6700.02	1762393.42	396673.45	39°35'12.3906"N	80°13'52.7843"W	18274.56	338.492	0.81

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WELLPATH DATA (302 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]
27683.00	88.090	324.280	7803.69	17793.42	17078.27	-6754.92	1762338.53	396749.68	39°35'13.1395"N	80°13'53.4934"W	18365.63	338.420	0.27
27775.00	88.250	324.020	7806.63	17885.38	17152.81	-6808.77	1762284.68	396824.20	39°35'13.8718"N	80°13'54.1890"W	18454.76	338.349	0.33
27800.00‡	88.250	324.020	7807.39	17910.36	17173.03	-6823.45	1762270.00	396844.42	39°35'14.0704"N	80°13'54.3786"W	18478.97	338.330	0.00

WELLPATH COMPOSITION - Ref Wellbore: Upton 17H AWB Ref Wellpath: Upton 17H AWP PROJ: 27800'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	700.00	OWSG XYZ Accel with XY Static and Continuous Gyro rev1.1	1 Imported Gyro 50' - 700'	Upton 17H AWB	2025-12-08
700.00	7088.00	OWSG MWD rev2 + HRGM	2 Imported AEP MWD HRGM 883' - 7088'	Upton 17H AWB	2025-12-08
7088.00	27800.00	BH AutoTrak G3/GT4/eXact (2019) (HRGM, Short spacing)	3 BH ATC Short spacing HDGM 8.5" 7132' - 27775'	Upton 17H AWB	2025-12-08

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