

08/28/2026

JUL 08 2026

WV Department of
Environmental Protection



Actual Wellpath Report

Upton 13H AWP PROJ: 24327'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 13H
Field	Marion	UWI	47049026000000
Facility	Upton Pad	Wellbore	Upton 13H AWB
Slot	13H		

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 2025-12-24 at 2:16:28 PM
Scale	0.999942	Last Updated	2025-12-24
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	-39.98	1.46	1769092.31	379692.41	39°32'25.0911"N	80°12'25.5097"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 (13H)	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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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	91.370	0.00	0.00	0.00	0.00	1769092.31	379692.41	39°32'25.0911"N	80°12'25.5097"W	0.00	0.000	0.00
25.00	0.000	91.370	25.00	0.00	0.00	0.00	1769092.31	379692.41	39°32'25.0911"N	80°12'25.5097"W	0.00	0.000	0.00
50.00	0.210	91.370	50.00	-0.03	0.00	0.05	1769092.36	379692.41	39°32'25.0911"N	80°12'25.5092"W	0.05	91.370	0.84
100.00	0.190	258.790	100.00	-0.05	-0.02	0.06	1769092.37	379692.39	39°32'25.0909"N	80°12'25.5090"W	0.06	109.084	0.80
150.00	0.390	44.950	150.00	0.01	0.08	0.09	1769092.40	379692.49	39°32'25.0919"N	80°12'25.5085"W	0.13	48.204	1.12
200.00	0.100	113.710	200.00	0.00	0.19	0.26	1769092.57	379692.60	39°32'25.0929"N	80°12'25.5065"W	0.32	53.646	0.73
250.00	0.140	62.910	250.00	-0.04	0.20	0.35	1769092.66	379692.61	39°32'25.0931"N	80°12'25.5053"W	0.40	60.458	0.22
300.00	0.050	268.100	300.00	-0.04	0.23	0.38	1769092.69	379692.64	39°32'25.0933"N	80°12'25.5049"W	0.44	59.488	0.37
350.00	0.050	227.750	350.00	-0.03	0.21	0.34	1769092.65	379692.62	39°32'25.0932"N	80°12'25.5054"W	0.40	58.633	0.07
400.00	0.120	71.260	400.00	-0.05	0.21	0.38	1769092.69	379692.62	39°32'25.0932"N	80°12'25.5049"W	0.43	60.694	0.33
450.00	0.110	64.990	450.00	-0.07	0.25	0.47	1769092.78	379692.66	39°32'25.0936"N	80°12'25.5038"W	0.53	62.114	0.03
500.00	0.270	20.560	500.00	-0.02	0.38	0.56	1769092.87	379692.79	39°32'25.0949"N	80°12'25.5027"W	0.67	55.651	0.41
550.00	0.080	273.840	550.00	0.07	0.49	0.56	1769092.87	379692.90	39°32'25.0960"N	80°12'25.5026"W	0.75	48.786	0.61
600.00	0.130	344.060	600.00	0.14	0.55	0.51	1769092.82	379692.96	39°32'25.0965"N	80°12'25.5033"W	0.75	42.974	0.26
650.00	0.100	119.360	650.00	0.16	0.58	0.53	1769092.84	379692.99	39°32'25.0969"N	80°12'25.5030"W	0.79	42.527	0.43
700.00	0.040	201.900	700.00	0.11	0.54	0.57	1769092.88	379692.95	39°32'25.0965"N	80°12'25.5026"W	0.79	46.078	0.21
735.00	0.150	53.710	735.00	0.10	0.56	0.60	1769092.91	379692.97	39°32'25.0967"N	80°12'25.5022"W	0.82	46.853	0.53
913.00	0.080	46.220	913.00	0.12	0.78	0.88	1769093.19	379693.19	39°32'25.0989"N	80°12'25.4986"W	1.18	48.142	0.04
977.00	0.010	0.500	977.00	0.13	0.82	0.91	1769093.22	379693.23	39°32'25.0993"N	80°12'25.4982"W	1.22	47.879	0.11
1072.00	0.650	96.110	1072.00	-0.22	0.77	1.44	1769093.75	379693.18	39°32'25.0988"N	80°12'25.4914"W	1.64	61.870	0.69
1170.00	1.210	93.710	1169.98	-1.25	0.65	3.03	1769095.34	379693.06	39°32'25.0977"N	80°12'25.4711"W	3.10	77.966	0.57
1264.00	2.030	87.810	1263.94	-2.81	0.65	5.68	1769097.99	379693.06	39°32'25.0979"N	80°12'25.4373"W	5.72	83.524	0.89
1360.00	1.880	80.170	1359.89	-4.45	0.98	8.93	1769101.24	379693.39	39°32'25.1014"N	80°12'25.3958"W	8.99	83.747	0.31
1455.00	1.250	75.320	1454.85	-5.51	1.51	11.47	1769103.78	379693.92	39°32'25.1069"N	80°12'25.3635"W	11.57	82.513	0.68
1550.00	0.870	70.830	1549.84	-6.09	2.01	13.16	1769105.46	379694.42	39°32'25.1119"N	80°12'25.3420"W	13.31	81.326	0.41
1645.00	0.730	77.920	1644.83	-6.54	2.37	14.43	1769106.74	379694.78	39°32'25.1156"N	80°12'25.3258"W	14.62	80.670	0.18
1740.00	0.880	76.630	1739.82	-7.07	2.67	15.73	1769108.04	379695.08	39°32'25.1186"N	80°12'25.3092"W	15.95	80.381	0.16
1835.00	1.050	70.390	1834.80	-7.59	3.13	17.26	1769109.57	379695.54	39°32'25.1233"N	80°12'25.2898"W	17.54	79.732	0.21
1930.00	1.220	61.770	1929.79	-7.97	3.90	18.97	1769111.28	379696.31	39°32'25.1311"N	80°12'25.2680"W	19.37	78.391	0.25

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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]
2026.00	1.180	56.280	2025.76	-8.15	4.93	20.69	1769113.00	379697.34	39°32'25.1414"N	80°12'25.2461"W	21.27	76.601	0.13

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2121.00	0.970	50.860	2120.75	-8.14	5.98	22.13	1769114.44	379698.39	39°32'25.1519"N	80°12'25.2279"W	22.92	74.879	0.25
2215.00	0.830	32.490	2214.74	-7.84	7.06	23.11	1769115.42	379699.47	39°32'25.1626"N	80°12'25.2154"W	24.17	73.023	0.34
2337.00	1.070	29.680	2336.72	-7.05	8.79	24.15	1769116.46	379701.20	39°32'25.1798"N	80°12'25.2023"W	25.70	69.998	0.20
2432.00	0.820	29.910	2431.71	-6.40	10.15	24.93	1769117.24	379702.56	39°32'25.1933"N	80°12'25.1925"W	26.92	67.844	0.26
2527.00	2.500	44.980	2526.66	-5.80	12.21	26.73	1769119.04	379704.62	39°32'25.2138"N	80°12'25.1697"W	29.39	65.459	1.81
2621.00	6.070	69.680	2620.39	-6.81	15.38	32.85	1769125.15	379707.79	39°32'25.2457"N	80°12'25.0920"W	36.27	64.904	4.19
2716.00	8.860	66.710	2714.58	-9.76	20.02	44.28	1769136.59	379712.43	39°32'25.2924"N	80°12'24.9466"W	48.59	65.669	2.96
2811.00	11.280	65.630	2808.11	-13.22	26.75	59.46	1769151.77	379719.16	39°32'25.3600"N	80°12'24.7534"W	65.20	65.780	2.56
2906.00	12.150	62.800	2901.13	-16.60	35.15	76.82	1769169.12	379727.56	39°32'25.4444"N	80°12'24.5327"W	84.48	65.411	1.10
3001.00	13.150	62.110	2993.82	-19.62	44.78	95.26	1769187.57	379737.18	39°32'25.5410"N	80°12'24.2983"W	105.26	64.824	1.06
3096.00	15.500	59.230	3085.86	-22.27	56.33	115.72	1769208.03	379748.73	39°32'25.6567"N	80°12'24.0383"W	128.70	64.046	2.58
3191.00	17.850	61.260	3176.86	-25.23	69.83	139.40	1769231.70	379762.23	39°32'25.7920"N	80°12'23.7374"W	155.91	63.394	2.55
3287.00	21.370	61.160	3267.28	-29.23	85.34	167.63	1769259.93	379777.75	39°32'25.9475"N	80°12'23.3786"W	188.11	63.019	3.67
3384.00	24.990	59.090	3356.44	-33.20	104.40	200.70	1769293.00	379796.80	39°32'26.1384"N	80°12'22.9584"W	226.23	62.518	3.82
3480.00	29.560	60.020	3441.74	-37.42	126.66	238.63	1769330.93	379819.06	39°32'26.3614"N	80°12'22.4765"W	270.16	62.042	4.78
3575.00	33.400	63.330	3522.75	-44.05	150.12	282.32	1769374.61	379842.52	39°32'26.5966"N	80°12'21.9213"W	319.75	61.999	4.43
3670.00	36.930	65.130	3600.40	-53.73	173.86	331.59	1769423.88	379866.26	39°32'26.8351"N	80°12'21.2947"W	374.41	62.331	3.87
3765.00	39.390	64.440	3675.09	-64.62	198.88	384.69	1769476.97	379891.27	39°32'27.0864"N	80°12'20.6195"W	433.05	62.662	2.63
3860.00	40.530	67.420	3747.92	-77.17	223.74	440.39	1769532.67	379916.13	39°32'27.3364"N	80°12'19.9110"W	493.97	63.067	2.34
3954.00	41.730	67.730	3818.72	-91.60	247.32	497.54	1769589.82	379939.72	39°32'27.5740"N	80°12'19.1838"W	555.62	63.569	1.29
4049.00	39.750	67.540	3890.69	-106.13	270.91	554.88	1769647.15	379963.30	39°32'27.8115"N	80°12'18.4544"W	617.48	63.977	2.09
4144.00	35.840	70.980	3965.76	-121.29	291.59	609.27	1769701.54	379983.98	39°32'28.0201"N	80°12'17.7622"W	675.45	64.425	4.67
4238.00	35.480	68.790	4042.13	-136.22	310.43	660.72	1769752.99	380002.82	39°32'28.2103"N	80°12'17.1074"W	730.01	64.834	1.41
4334.00	31.200	61.580	4122.35	-146.55	332.36	708.60	1769800.87	380024.75	39°32'28.4307"N	80°12'16.4984"W	782.67	64.872	6.07
4429.00	30.820	60.030	4203.77	-152.28	356.23	751.33	1769843.59	380048.62	39°32'28.6699"N	80°12'15.9554"W	831.50	64.633	0.93
4523.00	31.650	58.910	4284.15	-156.86	380.99	793.31	1769885.57	380073.38	39°32'28.9179"N	80°12'15.4220"W	880.05	64.347	1.08
4618.00	32.500	61.510	4364.65	-162.26	406.04	837.09	1769929.35	380098.42	39°32'29.1688"N	80°12'14.8657"W	930.37	64.124	1.71
4712.00	33.430	64.680	4443.52	-170.28	429.16	882.69	1769974.95	380121.54	39°32'29.4009"N	80°12'14.2859"W	981.49	64.071	2.08
4810.00	34.600	64.150	4524.75	-180.12	452.84	932.13	1770024.39	380145.22	39°32'29.6387"N	80°12'13.6572"W	1036.31	64.089	1.23

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WELLPATH DATA (266 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]
4905.00	36.070	64.020	4602.25	-189.66	476.85	981.55	1770073.80	380169.23	39°32'29.8799"N	80°12'13.0288"W	1091.25	64.089	1.55

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4999.00	38.400	62.170	4677.08	-198.55	502.61	1032.25	1770124.50	380194.99	39°32'30.1383"N	80°12'12.3842"W	1148.11	64.038	2.75
5094.00	38.390	61.750	4751.54	-206.64	530.34	1084.33	1770176.57	380222.72	39°32'30.4165"N	80°12'11.7223"W	1207.08	63.937	0.27
5188.00	37.320	63.290	4825.76	-215.09	556.97	1135.50	1770227.74	380249.34	39°32'30.6835"N	80°12'11.0718"W	1264.74	63.872	1.52
5283.00	37.580	62.570	4901.18	-223.98	583.26	1186.93	1770279.17	380275.63	39°32'30.9473"N	80°12'10.4179"W	1322.50	63.831	0.54
5378.00	37.050	61.340	4976.73	-231.87	610.33	1237.76	1770330.00	380302.70	39°32'31.2188"N	80°12'9.7718"W	1380.05	63.753	0.96
5472.00	36.610	64.640	5051.98	-240.59	635.92	1287.94	1770380.17	380328.29	39°32'31.4756"N	80°12'9.1338"W	1436.38	63.722	2.16
5567.00	37.660	66.150	5127.72	-251.85	659.79	1340.09	1770432.31	380352.16	39°32'31.7155"N	80°12'8.4706"W	1493.70	63.787	1.46
5662.00	38.790	66.790	5202.35	-264.47	683.25	1393.98	1770486.21	380375.62	39°32'31.9515"N	80°12'7.7851"W	1552.42	63.889	1.26
5757.00	38.280	64.820	5276.66	-276.50	707.50	1447.96	1770540.18	380399.86	39°32'32.1953"N	80°12'7.0984"W	1611.57	63.959	1.40
5852.00	36.830	63.070	5351.97	-286.43	732.91	1499.98	1770592.20	380425.28	39°32'32.4506"N	80°12'6.4370"W	1669.46	63.959	1.89
5946.00	36.470	64.110	5427.39	-295.70	757.87	1550.23	1770642.45	380450.24	39°32'32.7011"N	80°12'5.7980"W	1725.57	63.947	0.76
6041.00	36.990	65.920	5503.53	-306.48	781.86	1601.73	1770693.94	380474.23	39°32'32.9422"N	80°12'5.1431"W	1782.37	63.981	1.26
6136.00	38.080	67.900	5578.87	-319.34	804.55	1654.97	1770747.18	380496.91	39°32'33.1705"N	80°12'4.4658"W	1840.17	64.074	1.71
6231.00	37.470	65.340	5653.96	-331.98	827.63	1708.38	1770800.58	380519.99	39°32'33.4027"N	80°12'3.7863"W	1898.29	64.152	1.77
6326.00	36.300	62.610	5729.95	-341.80	852.62	1759.61	1770851.82	380544.98	39°32'33.6536"N	80°12'3.1348"W	1955.30	64.147	2.12
6424.00	37.120	62.800	5808.51	-350.59	879.49	1811.67	1770903.87	380571.84	39°32'33.9231"N	80°12'2.4730"W	2013.86	64.105	0.84
6519.00	37.050	62.290	5884.30	-359.02	905.90	1862.50	1770954.70	380598.25	39°32'34.1881"N	80°12'1.8268"W	2071.13	64.062	0.33
6613.00	34.980	63.360	5960.33	-367.41	931.15	1911.66	1771003.86	380623.50	39°32'34.4414"N	80°12'1.2018"W	2126.38	64.030	2.30
6707.00	34.940	65.580	6037.37	-377.12	954.36	1960.26	1771052.45	380646.71	39°32'34.6746"N	80°12'0.5838"W	2180.23	64.041	1.35
6802.00	37.140	64.090	6114.18	-387.53	978.14	2010.83	1771103.02	380670.49	39°32'34.9135"N	80°11'59.9406"W	2236.11	64.060	2.49
6897.00	36.390	64.960	6190.29	-397.83	1002.60	2062.16	1771154.35	380694.95	39°32'35.1592"N	80°11'59.2879"W	2292.97	64.071	0.96
6992.00	35.020	68.570	6267.44	-409.98	1024.49	2113.08	1771205.26	380716.84	39°32'35.3794"N	80°11'58.6401"W	2348.33	64.134	2.64
7087.00	35.800	72.410	6344.87	-425.54	1042.85	2164.94	1771257.12	380735.20	39°32'35.5648"N	80°11'57.9799"W	2403.02	64.280	2.48
7182.00	36.800	70.470	6421.44	-442.30	1060.76	2218.25	1771310.43	380753.11	39°32'35.7459"N	80°11'57.3012"W	2458.83	64.443	1.60
7276.00	35.550	65.800	6497.33	-455.80	1081.38	2269.72	1771361.89	380773.72	39°32'35.9537"N	80°11'56.6463"W	2514.16	64.525	3.22
7371.00	34.560	63.660	6575.10	-465.90	1104.66	2319.06	1771411.23	380797.00	39°32'36.1875"N	80°11'56.0188"W	2568.72	64.530	1.66
7466.00	34.940	63.080	6653.16	-474.64	1128.93	2367.47	1771459.63	380821.27	39°32'36.4311"N	80°11'55.4033"W	2622.86	64.506	0.53
7560.00	37.200	62.330	6729.13	-482.93	1154.31	2416.64	1771508.80	380846.66	39°32'36.6858"N	80°11'54.7781"W	2678.17	64.468	2.45
7655.00	36.530	59.060	6805.14	-489.50	1182.19	2466.33	1771558.49	380874.53	39°32'36.9651"N	80°11'54.1466"W	2735.02	64.390	2.18

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WELLPATH DATA (266 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]
7749.00	34.520	58.370	6881.64	-493.92	1210.55	2513.01	1771605.17	380902.88	39°32'37.2489"N	80°11'53.5536"W	2789.38	64.279	2.18

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 13H
Field	Marion	UWI	47049026000000
Facility	Upton Pad	Wellbore	Upton 13H AWB
Slot	13H		

WELLPATH DATA (266 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]
7845.00	35.120	61.700	6960.46	-499.62	1237.91	2560.49	1771652.64	380930.24	39°32'37.5229"N	80°11'52.9503"W	2844.03	64.198	2.08
7939.00	35.910	64.510	7036.98	-508.20	1262.59	2609.18	1771701.33	380954.92	39°32'37.7706"N	80°11'52.3312"W	2898.61	64.178	1.93
8034.00	33.750	68.010	7114.96	-519.60	1284.46	2658.81	1771750.96	380976.80	39°32'37.9906"N	80°11'51.6998"W	2952.82	64.215	3.10
8129.00	32.910	71.200	7194.34	-533.55	1302.67	2707.72	1771799.86	380995.00	39°32'38.1742"N	80°11'51.0774"W	3004.77	64.308	2.05
8223.00	34.340	67.920	7272.62	-547.41	1320.86	2756.46	1771848.61	381013.19	39°32'38.3578"N	80°11'50.4569"W	3056.60	64.397	2.46
8294.00	34.290	66.130	7331.26	-556.38	1336.48	2793.31	1771885.45	381028.81	39°32'38.5150"N	80°11'49.9881"W	3096.58	64.431	1.42
8387.00	33.250	47.680	7408.78	-559.01	1364.33	2836.23	1771928.37	381056.65	39°32'38.7935"N	80°11'49.4430"W	3147.32	64.311	11.05
8482.00	37.210	36.630	7486.44	-547.48	1404.97	2872.68	1771964.82	381097.30	39°32'39.1980"N	80°11'48.9818"W	3197.85	63.938	7.89
8577.00	40.500	21.600	7560.58	-522.23	1456.84	2901.25	1771993.38	381149.16	39°32'39.7127"N	80°11'48.6222"W	3246.48	63.337	10.49
8671.00	43.530	13.510	7630.46	-484.75	1516.75	2920.07	1772012.20	381209.07	39°32'40.3063"N	80°11'48.3880"W	3290.49	62.552	6.60
8765.00	48.010	9.480	7696.03	-439.14	1582.73	2933.39	1772025.52	381275.04	39°32'40.9594"N	80°11'48.2244"W	3333.14	61.651	5.67
8860.00	54.920	2.380	7755.22	-383.73	1656.54	2940.84	1772032.97	381348.85	39°32'41.6894"N	80°11'48.1367"W	3375.30	60.608	9.32
8954.00	61.480	355.940	7804.76	-318.35	1736.31	2939.51	1772031.64	381428.61	39°32'42.4776"N	80°11'48.1616"W	3414.01	59.431	9.08
9049.00	68.060	346.870	7845.31	-242.07	1821.08	2926.51	1772018.64	381513.38	39°32'43.3144"N	80°11'48.3359"W	3446.85	58.107	11.06
9142.00	74.170	340.330	7875.42	-159.20	1905.38	2901.60	1771993.74	381597.67	39°32'44.1456"N	80°11'48.6621"W	3471.27	56.709	9.35
9238.00	78.570	334.120	7898.06	-68.41	1991.31	2865.47	1771957.61	381683.60	39°32'44.9921"N	80°11'49.1319"W	3489.45	55.203	7.78
9332.00	81.940	332.540	7913.97	23.02	2074.08	2823.89	1771916.03	381766.37	39°32'45.8069"N	80°11'49.6709"W	3503.74	53.704	3.95
9427.00	85.130	333.000	7924.66	116.32	2158.00	2780.70	1771872.85	381850.29	39°32'46.6330"N	80°11'50.2304"W	3519.84	52.186	3.39
9521.00	86.770	326.910	7931.31	209.54	2239.13	2733.78	1771825.92	381931.40	39°32'47.4311"N	80°11'50.8375"W	3533.73	50.680	6.69
9615.00	89.480	324.730	7934.38	303.44	2316.84	2681.00	1771773.15	382009.11	39°32'48.1951"N	80°11'51.5189"W	3543.38	49.167	3.70
9710.00	88.980	324.850	7935.66	398.42	2394.45	2626.23	1771718.39	382086.71	39°32'48.9579"N	80°11'52.2257"W	3553.94	47.643	0.54
9805.00	89.380	324.660	7937.02	493.40	2472.03	2571.42	1771663.57	382164.29	39°32'49.7204"N	80°11'52.9332"W	3566.95	46.129	0.47
9900.00	89.480	324.450	7937.97	588.39	2549.42	2516.33	1771608.49	382241.67	39°32'50.4810"N	80°11'53.6441"W	3582.10	44.626	0.24
9995.00	94.560	326.590	7934.62	683.27	2627.65	2462.60	1771554.76	382319.90	39°32'51.2500"N	80°11'54.3377"W	3601.24	43.143	5.80
10090.00	93.940	324.990	7927.58	777.96	2705.99	2409.34	1771501.50	382398.24	39°32'52.0201"N	80°11'55.0254"W	3623.16	41.681	1.80
10185.00	92.800	325.110	7921.99	872.78	2783.72	2355.01	1771447.18	382475.96	39°32'52.7841"N	80°11'55.7266"W	3646.25	40.231	1.21
10280.00	92.310	324.640	7917.76	967.68	2861.34	2300.40	1771392.58	382553.58	39°32'53.5471"N	80°11'56.4314"W	3671.40	38.798	0.71
10374.00	92.370	325.340	7913.92	1061.59	2938.27	2246.52	1771338.69	382630.50	39°32'54.3032"N	80°11'57.1269"W	3698.69	37.401	0.75
10468.00	92.520	325.340	7909.91	1155.48	3015.52	2193.11	1771285.29	382707.75	39°32'55.0625"N	80°11'57.8164"W	3728.68	36.027	0.16

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WELLPATH DATA (266 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]
10563.00	91.720	324.810	7906.40	1250.40	3093.36	2138.76	1771230.94	382785.58	39°32'55.8276"N	80°11'58.5179"W	3760.74	34.660	1.01

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WELLPATH DATA (266 stations)

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10657.00	91.390	324.770	7903.84	1344.36	3170.13	2084.58	1771176.77	382862.35	39°32'56.5821"N	80°11'59.2172"W	3794.10	33.328	0.35
10752.00	91.320	324.940	7901.60	1439.32	3247.79	2029.91	1771122.10	382940.00	39°32'57.3454"N	80°11'59.9228"W	3829.97	32.006	0.19
10847.00	91.110	324.340	7899.58	1534.30	3325.25	1974.95	1771067.14	383017.46	39°32'58.1067"N	80°12'0.6322"W	3867.52	30.707	0.67
10942.00	90.430	324.370	7898.31	1629.29	3402.44	1919.59	1771011.78	383094.65	39°32'58.8653"N	80°12'1.3466"W	3906.59	29.431	0.72
11037.00	90.030	323.020	7897.93	1724.28	3479.00	1863.34	1770955.54	383171.20	39°32'59.6176"N	80°12'2.0722"W	3946.58	28.173	1.48
11132.00	90.580	325.290	7897.42	1819.27	3556.00	1807.72	1770899.92	383248.19	39°33'0.3743"N	80°12'2.7900"W	3989.10	26.947	2.46
11227.00	90.120	325.000	7896.84	1914.25	3633.95	1753.42	1770845.63	383326.14	39°33'1.1405"N	80°12'3.4908"W	4034.86	25.758	0.57
11321.00	90.150	325.200	7896.62	2008.24	3711.05	1699.64	1770791.85	383403.23	39°33'1.8982"N	80°12'4.1851"W	4081.75	24.608	0.22
11416.00	90.740	323.780	7895.88	2103.23	3788.37	1644.47	1770736.68	383480.56	39°33'2.6582"N	80°12'4.8972"W	4129.90	23.465	1.62
11511.00	91.080	323.740	7894.37	2198.22	3864.99	1588.31	1770680.53	383557.16	39°33'3.4110"N	80°12'5.6217"W	4178.62	22.340	0.36
11606.00	90.710	323.430	7892.89	2293.20	3941.43	1531.92	1770624.14	383633.60	39°33'4.1621"N	80°12'6.3492"W	4228.67	21.240	0.51
11700.00	90.740	324.050	7891.70	2387.19	4017.22	1476.33	1770568.55	383709.38	39°33'4.9068"N	80°12'7.0664"W	4279.90	20.178	0.66
11795.00	90.980	323.560	7890.27	2482.18	4093.87	1420.24	1770512.46	383786.04	39°33'5.6601"N	80°12'7.7902"W	4333.23	19.133	0.57
11890.00	90.950	323.810	7888.67	2577.16	4170.41	1363.98	1770456.21	383862.57	39°33'6.4121"N	80°12'8.5159"W	4387.80	18.111	0.27
11985.00	91.140	323.860	7886.94	2672.15	4247.09	1307.93	1770400.16	383939.25	39°33'7.1656"N	80°12'9.2391"W	4443.93	17.117	0.21
12079.00	91.230	324.200	7885.00	2766.13	4323.15	1252.73	1770344.97	384015.30	39°33'7.9130"N	80°12'9.9514"W	4501.00	16.160	0.37
12174.00	90.580	323.850	7883.50	2861.11	4400.02	1196.93	1770289.17	384092.17	39°33'8.6684"N	80°12'10.6715"W	4559.92	15.218	0.78
12269.00	90.990	323.860	7882.19	2956.10	4476.73	1140.91	1770233.15	384168.87	39°33'9.4222"N	80°12'11.3944"W	4619.83	14.298	0.43
12364.00	92.090	324.900	7879.64	3051.07	4553.93	1085.60	1770177.84	384246.06	39°33'10.1808"N	80°12'12.1082"W	4681.54	13.408	1.59
12459.00	91.540	323.770	7876.63	3146.02	4631.07	1030.24	1770122.49	384323.20	39°33'10.9389"N	80°12'12.8227"W	4744.28	12.542	1.32
12553.00	91.750	324.050	7873.93	3239.98	4707.00	974.89	1770067.14	384399.12	39°33'11.6850"N	80°12'13.5368"W	4806.89	11.701	0.37
12647.00	91.480	323.640	7871.28	3333.94	4782.86	919.45	1770011.71	384474.99	39°33'12.4305"N	80°12'14.2521"W	4870.44	10.882	0.52
12742.00	91.380	323.490	7868.91	3428.90	4859.27	863.05	1769955.31	384551.39	39°33'13.1812"N	80°12'14.9799"W	4935.32	10.071	0.19
12836.00	91.480	323.900	7866.57	3522.87	4935.00	807.41	1769899.67	384627.11	39°33'13.9253"N	80°12'15.6978"W	5000.61	9.292	0.45
12932.00	91.290	323.750	7864.25	3618.84	5012.47	750.76	1769843.03	384704.58	39°33'14.6866"N	80°12'16.4287"W	5068.38	8.518	0.25
13026.00	90.550	323.810	7862.74	3712.83	5088.29	695.23	1769787.50	384780.40	39°33'15.4316"N	80°12'17.1453"W	5135.57	7.780	0.79
13121.00	90.980	323.980	7861.47	3807.82	5165.04	639.25	1769731.53	384857.14	39°33'16.1858"N	80°12'17.8676"W	5204.45	7.055	0.49
13215.00	90.250	324.010	7860.46	3901.81	5241.08	584.00	1769676.27	384933.17	39°33'16.9329"N	80°12'18.5807"W	5273.52	6.358	0.78
13310.00	90.400	323.970	7859.92	3996.81	5317.93	528.15	1769620.42	385010.02	39°33'17.6880"N	80°12'19.3014"W	5344.09	5.672	0.16

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WELLPATH DATA (266 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]
13404.00	89.750	323.940	7859.80	4090.81	5393.93	472.84	1769565.12	385086.01	39°33'18.4349"N	80°12'20.0152"W	5414.61	5.010	0.69

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Actual Wellpath Report

Upton 13H AWP PROJ: 24327

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 13H
Field	Marion	UWI	47049026000000
Facility	Upton Pad	Wellbore	Upton 13H AWB
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WELLPATH DATA (266 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]
13500.00	89.910	323.740	7860.08	4186.81	5471.44	416.19	1769508.48	385163.52	39°33'19.1965"N	80°12'20.7461"W	5487.24	4.350	0.27
13595.00	89.480	323.650	7860.59	4281.81	5547.99	359.94	1769452.23	385240.07	39°33'19.9487"N	80°12'21.4719"W	5559.66	3.712	0.46
13690.00	90.150	323.620	7860.90	4376.80	5624.49	303.62	1769395.91	385316.56	39°33'20.7003"N	80°12'22.1987"W	5632.68	3.090	0.71
13785.00	90.800	325.200	7860.11	4471.79	5701.74	248.33	1769340.63	385393.81	39°33'21.4595"N	80°12'22.9122"W	5707.15	2.494	1.80
13880.00	91.170	324.210	7858.48	4566.77	5779.27	193.45	1769285.75	385471.33	39°33'22.2214"N	80°12'23.6207"W	5782.50	1.917	1.11
13973.00	91.200	324.440	7856.55	4659.75	5854.80	139.23	1769231.53	385546.86	39°33'22.9636"N	80°12'24.3206"W	5856.45	1.362	0.25
14068.00	91.050	324.210	7854.69	4754.73	5931.95	83.84	1769176.14	385624.01	39°33'23.7218"N	80°12'25.0355"W	5932.55	0.810	0.29
14163.00	89.450	323.550	7854.27	4849.73	6008.69	27.84	1769120.15	385700.74	39°33'24.4759"N	80°12'25.7581"W	6008.75	0.265	1.82
14258.00	89.290	323.680	7855.32	4944.72	6085.17	-28.51	1769063.80	385777.21	39°33'25.2273"N	80°12'26.4853"W	6085.23	359.732	0.22
14352.00	89.880	323.990	7856.00	5038.72	6161.05	-83.98	1769008.33	385853.09	39°33'25.9729"N	80°12'27.2011"W	6161.62	359.219	0.71
14448.00	90.030	323.850	7856.07	5134.71	6238.64	-140.52	1768951.80	385930.67	39°33'26.7353"N	80°12'27.9307"W	6240.22	358.710	0.21
14542.00	89.510	323.500	7856.45	5228.71	6314.37	-196.20	1768896.12	386006.40	39°33'27.4794"N	80°12'28.6492"W	6317.42	358.220	0.67
14636.00	89.140	323.790	7857.56	5322.70	6390.07	-251.92	1768840.41	386082.09	39°33'28.2231"N	80°12'29.3682"W	6395.03	357.742	0.50
14730.00	89.320	324.420	7858.82	5416.69	6466.21	-307.02	1768785.30	386158.23	39°33'28.9713"N	80°12'30.0794"W	6473.49	357.282	0.70
14825.00	89.320	324.160	7859.95	5511.69	6543.34	-362.47	1768729.86	386235.36	39°33'29.7293"N	80°12'30.7951"W	6553.37	356.829	0.27
14920.00	89.540	324.360	7860.89	5606.68	6620.45	-417.96	1768674.38	386312.46	39°33'30.4870"N	80°12'31.5113"W	6633.63	356.388	0.31
15014.00	90.860	323.500	7860.57	5700.68	6696.42	-473.30	1768619.04	386388.43	39°33'31.2335"N	80°12'32.2255"W	6713.13	355.957	1.68
15109.00	91.350	323.970	7858.73	5795.66	6773.01	-529.48	1768562.86	386465.01	39°33'31.9860"N	80°12'32.9505"W	6793.67	355.530	0.71
15204.00	91.260	324.010	7856.57	5890.63	6849.83	-585.32	1768507.02	386541.83	39°33'32.7409"N	80°12'33.6712"W	6874.80	355.116	0.10
15298.00	90.000	323.690	7855.54	5984.62	6925.73	-640.77	1768451.58	386617.72	39°33'33.4867"N	80°12'34.3868"W	6955.31	354.714	1.38
15393.00	90.000	323.810	7855.54	6079.62	7002.34	-696.94	1768395.41	386694.33	39°33'34.2394"N	80°12'35.1117"W	7036.94	354.316	0.13
15487.00	91.080	324.370	7854.65	6173.62	7078.47	-752.07	1768340.28	386770.46	39°33'34.9875"N	80°12'35.8232"W	7118.31	353.935	1.29
15582.00	91.570	322.530	7852.45	6268.58	7154.77	-808.63	1768283.73	386846.75	39°33'35.7370"N	80°12'36.5530"W	7200.32	353.552	2.00
15677.00	90.710	324.050	7850.56	6363.55	7230.91	-865.40	1768226.96	386922.88	39°33'36.4851"N	80°12'37.2856"W	7282.51	353.175	1.84
15772.00	90.550	323.900	7849.52	6458.54	7307.73	-921.27	1768171.09	386999.70	39°33'37.2400"N	80°12'38.0067"W	7365.58	352.815	0.23
15867.00	90.430	323.750	7848.71	6553.54	7384.42	-977.35	1768115.02	387076.38	39°33'37.9935"N	80°12'38.7303"W	7448.81	352.461	0.20
15961.00	90.650	323.860	7847.82	6647.53	7460.27	-1032.85	1768059.52	387152.23	39°33'38.7388"N	80°12'39.4467"W	7531.43	352.118	0.26
16056.00	90.400	322.860	7846.95	6742.52	7536.50	-1089.54	1768002.83	387228.45	39°33'39.4876"N	80°12'40.1783"W	7614.85	351.774	1.08
16151.00	90.250	323.970	7846.41	6837.51	7612.78	-1146.16	1767946.22	387304.73	39°33'40.2371"N	80°12'40.9089"W	7698.58	351.438	1.18

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WELLPATH DATA (266 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]
16246.00	90.280	324.130	7845.97	6932.51	7689.68	-1201.94	1767890.45	387381.63	39°33'40.9927"N	80°12'41.6287"W	7783.05	351.116	0.17

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Field	Marion	UWI	47049026000000
Facility	Upton Pad	Wellbore	Upton 13H AWB
Slot	13H		

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16341.00	90.180	323.760	7845.59	7027.51	7766.48	-1257.85	1767834.54	387458.43	39°33'41.7474"N	80°12'42.3504"W	7867.68	350.800	0.40
16436.00	90.490	324.380	7845.03	7122.51	7843.41	-1313.59	1767778.80	387535.34	39°33'42.5032"N	80°12'43.0699"W	7952.64	350.492	0.73
16531.00	89.850	322.440	7844.75	7217.49	7919.68	-1370.22	1767722.17	387611.61	39°33'43.2526"N	80°12'43.8006"W	8037.34	350.184	2.15
16626.00	91.660	324.470	7843.50	7312.47	7995.99	-1426.78	1767665.62	387687.92	39°33'44.0023"N	80°12'44.5305"W	8122.28	349.883	2.86
16721.00	90.060	323.870	7842.08	7407.46	8073.00	-1482.38	1767610.02	387764.92	39°33'44.7590"N	80°12'45.2482"W	8207.97	349.595	1.80
16815.00	90.180	324.260	7841.88	7501.46	8149.11	-1537.54	1767554.86	387841.03	39°33'45.5068"N	80°12'45.9603"W	8292.89	349.315	0.43
16910.00	90.090	323.880	7841.65	7596.46	8226.03	-1593.29	1767499.12	387917.95	39°33'46.2627"N	80°12'46.6799"W	8378.91	349.038	0.41
17005.00	90.800	323.940	7840.92	7691.45	8302.80	-1649.25	1767443.16	387994.71	39°33'47.0170"N	80°12'47.4021"W	8465.01	348.765	0.75
17100.00	90.340	323.130	7839.97	7786.44	8379.19	-1705.71	1767386.71	388071.10	39°33'47.7675"N	80°12'48.1308"W	8551.04	348.494	0.98
17195.00	89.850	322.850	7839.81	7881.42	8455.05	-1762.89	1767329.52	388146.96	39°33'48.5128"N	80°12'48.8686"W	8636.88	348.222	0.59
17290.00	90.280	323.990	7839.71	7976.42	8531.34	-1819.51	1767272.91	388223.24	39°33'49.2622"N	80°12'49.5992"W	8723.21	347.961	1.28
17385.00	89.200	323.970	7840.14	8071.41	8608.18	-1875.37	1767217.05	388300.07	39°33'50.0172"N	80°12'50.3203"W	8810.09	347.710	1.14
17480.00	89.110	323.650	7841.54	8166.40	8684.84	-1931.46	1767160.97	388376.73	39°33'50.7704"N	80°12'51.0442"W	8897.02	347.462	0.35
17575.00	88.650	322.480	7843.40	8261.37	8760.76	-1988.53	1767103.90	388452.64	39°33'51.5162"N	80°12'51.7807"W	8983.60	347.212	1.32
17670.00	89.050	325.030	7845.30	8356.34	8837.35	-2044.68	1767047.75	388529.23	39°33'52.2688"N	80°12'52.5054"W	9070.81	346.973	2.72
17765.00	89.540	324.630	7846.47	8451.32	8915.00	-2099.40	1766993.04	388606.88	39°33'53.0319"N	80°12'53.2120"W	9158.86	346.749	0.67
17860.00	89.720	324.840	7847.08	8546.31	8992.57	-2154.25	1766938.19	388684.44	39°33'53.7941"N	80°12'53.9202"W	9247.00	346.528	0.29
17956.00	89.820	324.570	7847.47	8642.31	9070.92	-2209.71	1766882.73	388762.79	39°33'54.5641"N	80°12'54.6364"W	9336.19	346.309	0.30
18051.00	89.690	324.610	7847.88	8737.30	9148.35	-2264.76	1766827.69	388840.21	39°33'55.3250"N	80°12'55.3471"W	9424.51	346.095	0.14
18145.00	89.970	325.000	7848.16	8831.29	9225.16	-2318.94	1766773.51	388917.02	39°33'56.0799"N	80°12'56.0467"W	9512.16	345.890	0.51
18240.00	89.720	324.510	7848.41	8926.29	9302.75	-2373.76	1766718.69	388994.60	39°33'56.8423"N	80°12'56.7546"W	9600.83	345.685	0.58
18334.00	89.750	324.770	7848.85	9020.28	9379.41	-2428.16	1766664.30	389071.25	39°33'57.5956"N	80°12'57.4570"W	9688.61	345.486	0.28
18429.00	89.690	324.900	7849.31	9115.27	9457.07	-2482.87	1766609.59	389148.91	39°33'58.3588"N	80°12'58.1635"W	9777.57	345.289	0.15
18524.00	89.690	324.610	7849.83	9210.26	9534.65	-2537.69	1766554.77	389226.49	39°33'59.1213"N	80°12'58.8714"W	9866.59	345.096	0.31
18619.00	89.570	324.640	7850.44	9305.26	9612.11	-2592.69	1766499.78	389303.95	39°33'59.8824"N	80°12'59.5815"W	9955.64	344.905	0.13
18714.00	90.060	325.320	7850.75	9400.25	9689.91	-2647.20	1766445.27	389381.74	39°34'0.6470"N	80°13'0.2856"W	10045.00	344.720	0.88
18808.00	90.770	325.970	7850.06	9494.21	9767.51	-2700.25	1766392.22	389459.34	39°34'1.4097"N	80°13'0.9708"W	10133.89	344.546	1.02
18903.00	88.370	324.640	7850.78	9589.17	9845.61	-2754.32	1766338.16	389537.43	39°34'2.1773"N	80°13'1.6691"W	10223.62	344.371	2.89
18997.00	88.950	326.010	7852.98	9683.12	9922.89	-2807.78	1766284.70	389614.71	39°34'2.9368"N	80°13'2.3597"W	10312.49	344.201	1.58

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WELLPATH DATA (266 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]
19092.00	88.370	325.070	7855.20	9778.06	10001.20	-2861.52	1766230.97	389693.01	39°34'3.7065"N	80°13'3.0539"W	10402.51	344.033	1.16

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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]
19186.00	87.940	324.920	7858.22	9872.00	10078.16	-2915.41	1766177.07	389769.96	39°34'4.4627"N	80°13'3.7499"W	10491.37	343.866	0.48
19281.00	87.600	323.950	7861.92	9966.93	10155.37	-2970.62	1766121.87	389847.17	39°34'5.2215"N	80°13'4.4628"W	10580.94	343.695	1.08
19375.00	88.890	323.950	7864.80	10060.88	10231.34	-3025.91	1766066.58	389923.13	39°34'5.9679"N	80°13'5.1766"W	10669.41	343.524	1.37
19470.00	89.940	324.340	7865.77	10155.88	10308.33	-3081.56	1766010.94	390000.12	39°34'6.7244"N	80°13'5.8949"W	10759.07	343.357	1.18
19565.00	89.970	323.720	7865.84	10250.87	10385.21	-3137.35	1765955.14	390077.00	39°34'7.4798"N	80°13'6.6153"W	10848.76	343.191	0.65
19659.00	90.030	323.690	7865.84	10344.87	10460.98	-3193.00	1765899.51	390152.76	39°34'8.2241"N	80°13'7.3335"W	10937.42	343.026	0.07
19754.00	90.620	323.780	7865.30	10439.87	10537.57	-3249.19	1765843.32	390229.35	39°34'8.9767"N	80°13'8.0589"W	11027.13	342.863	0.63
19849.00	91.230	324.220	7863.77	10534.86	10614.42	-3305.02	1765787.49	390306.19	39°34'9.7317"N	80°13'8.7797"W	11117.06	342.705	0.79
19944.00	89.320	324.180	7863.32	10629.85	10691.47	-3360.59	1765731.92	390383.23	39°34'10.4887"N	80°13'9.4971"W	11207.18	342.551	2.01
20039.00	89.780	323.790	7864.06	10724.85	10768.30	-3416.45	1765676.07	390460.07	39°34'11.2437"N	80°13'10.2183"W	11297.28	342.397	0.63
20133.00	89.290	324.470	7864.82	10818.84	10844.47	-3471.52	1765620.99	390536.23	39°34'11.9921"N	80°13'10.9294"W	11386.58	342.249	0.89
20228.00	87.940	323.600	7867.12	10913.81	10921.34	-3527.30	1765565.22	390613.09	39°34'12.7473"N	80°13'11.6494"W	11476.82	342.101	1.69
20323.00	88.550	323.270	7870.03	11008.76	10997.61	-3583.87	1765508.66	390689.35	39°34'13.4966"N	80°13'12.3796"W	11566.82	341.950	0.73
20418.00	88.890	323.590	7872.15	11103.73	11073.88	-3640.45	1765452.08	390765.63	39°34'14.2459"N	80°13'13.1100"W	11656.92	341.802	0.49
20513.00	90.310	323.780	7872.82	11198.72	11150.43	-3696.71	1765395.82	390842.17	39°34'14.9979"N	80°13'13.8362"W	11747.24	341.658	1.51
20608.00	90.220	323.740	7872.38	11293.72	11227.05	-3752.87	1765339.66	390918.78	39°34'15.7507"N	80°13'14.5612"W	11837.68	341.517	0.10
20702.00	90.280	323.850	7871.97	11387.72	11302.90	-3808.40	1765284.14	390994.63	39°34'16.4959"N	80°13'15.2780"W	11927.25	341.379	0.13
20797.00	90.280	323.890	7871.50	11482.72	11379.63	-3864.41	1765228.13	391071.35	39°34'17.2498"N	80°13'16.0011"W	12017.89	341.243	0.04
20891.00	90.280	323.740	7871.04	11576.72	11455.50	-3919.91	1765172.64	391147.22	39°34'17.9951"N	80°13'16.7176"W	12107.60	341.110	0.16
20986.00	90.280	324.110	7870.58	11671.71	11532.28	-3975.84	1765116.70	391223.99	39°34'18.7495"N	80°13'17.4398"W	12198.39	340.978	0.39
21081.00	90.430	324.390	7869.99	11766.71	11609.38	-4031.35	1765061.21	391301.09	39°34'19.5070"N	80°13'18.1565"W	12289.40	340.850	0.33
21175.00	91.110	323.440	7868.73	11860.70	11685.33	-4086.71	1765005.85	391377.04	39°34'20.2533"N	80°13'18.8712"W	12379.34	340.724	1.24
21271.00	91.260	324.010	7866.74	11956.68	11762.71	-4143.49	1764949.07	391454.41	39°34'21.0135"N	80°13'19.6043"W	12471.16	340.595	0.61
21365.00	91.050	323.970	7864.85	12050.66	11838.73	-4198.75	1764893.82	391530.43	39°34'21.7604"N	80°13'20.3177"W	12561.25	340.472	0.23
21460.00	91.080	323.900	7863.08	12145.64	11915.51	-4254.66	1764837.90	391607.21	39°34'22.5148"N	80°13'21.0396"W	12652.34	340.350	0.08
21555.00	90.890	323.450	7861.45	12240.63	11992.04	-4310.93	1764781.64	391683.73	39°34'23.2666"N	80°13'21.7660"W	12743.36	340.227	0.51
21649.00	90.710	323.210	7860.13	12334.61	12067.43	-4367.06	1764725.51	391759.11	39°34'24.0072"N	80°13'22.4906"W	12833.32	340.105	0.32
21743.00	91.170	324.200	7858.59	12428.59	12143.18	-4422.70	1764669.88	391834.86	39°34'24.7514"N	80°13'23.2088"W	12923.51	339.988	1.16
21839.00	91.080	323.930	7856.71	12524.57	12220.89	-4479.02	1764613.55	391912.57	39°34'25.5149"N	80°13'23.9361"W	13015.83	339.872	0.30

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WELLPATH DATA (266 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]
21933.00	90.950	323.400	7855.04	12618.56	12296.60	-4534.71	1764557.87	391988.28	39°34'26.2587"N	80°13'24.6551"W	13106.11	339.757	0.58

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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]
22028.00	90.340	323.890	7853.97	12713.55	12373.11	-4591.02	1764501.56	392064.77	39°34'27.0103"N	80°13'25.3820"W	13197.40	339.643	0.82
22123.00	90.990	324.390	7852.87	12808.54	12450.10	-4646.67	1764445.92	392141.76	39°34'27.7667"N	80°13'26.1006"W	13288.96	339.533	0.86
22217.00	92.280	324.220	7850.19	12902.50	12526.40	-4701.49	1764391.10	392218.06	39°34'28.5165"N	80°13'26.8085"W	13379.64	339.428	1.38
22312.00	92.740	324.080	7846.03	12997.41	12603.33	-4757.08	1764335.52	392294.98	39°34'29.2723"N	80°13'27.5263"W	13471.22	339.321	0.51
22406.00	91.200	324.110	7842.80	13091.35	12679.42	-4812.17	1764280.43	392371.07	39°34'30.0199"N	80°13'28.2377"W	13561.89	339.217	1.64
22501.00	91.170	324.260	7840.83	13186.33	12756.44	-4867.75	1764224.86	392448.09	39°34'30.7767"N	80°13'28.9554"W	13653.64	339.114	0.16
22596.00	90.220	324.010	7839.68	13281.32	12833.42	-4923.40	1764169.21	392525.06	39°34'31.5330"N	80°13'29.6740"W	13745.42	339.011	1.03
22691.00	91.080	324.090	7838.60	13376.31	12910.32	-4979.17	1764113.44	392601.96	39°34'32.2886"N	80°13'30.3941"W	13837.22	338.910	0.91
22786.00	91.600	324.310	7836.38	13471.29	12987.35	-5034.72	1764057.89	392678.98	39°34'33.0454"N	80°13'31.1116"W	13929.10	338.811	0.59
22880.00	92.160	324.320	7833.30	13565.23	13063.66	-5089.53	1764003.09	392755.29	39°34'33.7951"N	80°13'31.8193"W	14020.08	338.714	0.60
22975.00	92.090	324.250	7829.77	13660.17	13140.74	-5144.95	1763947.67	392832.36	39°34'34.5525"N	80°13'32.5350"W	14112.04	338.618	0.10
23069.00	91.660	324.270	7826.70	13754.12	13217.00	-5199.82	1763892.80	392908.62	39°34'35.3017"N	80°13'33.2436"W	14203.07	338.524	0.46
23164.00	90.310	323.170	7825.07	13849.10	13293.57	-5256.03	1763836.60	392985.18	39°34'36.0539"N	80°13'33.9693"W	14294.92	338.427	1.83
23259.00	89.910	323.720	7824.88	13944.09	13369.88	-5312.61	1763780.02	393061.49	39°34'36.8036"N	80°13'34.6998"W	14386.71	338.329	0.72
23353.00	90.000	323.810	7824.96	14038.09	13445.70	-5368.17	1763724.46	393137.30	39°34'37.5485"N	80°13'35.4172"W	14477.71	338.236	0.14
23447.00	90.990	323.820	7824.14	14132.08	13521.57	-5423.67	1763668.97	393213.16	39°34'38.2938"N	80°13'36.1337"W	14568.76	338.144	1.05
23541.00	91.260	323.930	7822.30	14226.06	13597.48	-5479.07	1763613.57	393289.07	39°34'39.0396"N	80°13'36.8492"W	14659.86	338.053	0.31
23636.00	93.050	324.050	7818.73	14320.99	13674.27	-5534.88	1763557.76	393365.85	39°34'39.7940"N	80°13'37.5699"W	14751.97	337.964	1.89
23731.00	93.290	323.580	7813.47	14415.85	13750.83	-5590.89	1763501.76	393442.41	39°34'40.5461"N	80°13'38.2930"W	14843.96	337.874	0.55
23826.00	93.480	324.150	7807.86	14510.68	13827.42	-5646.81	1763445.84	393518.99	39°34'41.2986"N	80°13'39.0151"W	14935.99	337.786	0.63
23921.00	92.770	324.050	7802.69	14605.54	13904.25	-5702.43	1763390.22	393595.83	39°34'42.0535"N	80°13'39.7334"W	15028.17	337.700	0.75
24015.00	92.800	323.970	7798.12	14699.43	13980.22	-5757.60	1763335.05	393671.79	39°34'42.7998"N	80°13'40.4459"W	15119.41	337.616	0.09
24110.00	92.310	323.450	7793.88	14794.33	14056.72	-5813.77	1763278.88	393748.28	39°34'43.5513"N	80°13'41.1711"W	15211.55	337.530	0.75
24205.00	91.690	324.070	7790.57	14889.27	14133.29	-5869.90	1763222.76	393824.85	39°34'44.3036"N	80°13'41.8959"W	15303.78	337.446	0.92
24302.00	90.800	324.200	7788.46	14986.25	14211.88	-5926.72	1763165.95	393903.44	39°34'45.0757"N	80°13'42.6296"W	15398.17	337.363	0.93
24327.00†	90.800	324.200	7788.11	15011.24	14232.16	-5941.34	1763151.33	393923.71	39°34'45.2749"N	80°13'42.8185"W	15422.51	337.341	0.00

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Actual Wellpath Report

Upton 13H AWP PROJ: 24327'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 13H
Field	Marion	UWI	47049026000000
Facility	Upton Pad	Wellbore	Upton 13H AWB
Slot	13H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Upton 13H BHL rev2	7897.00	14236.34	-5938.34	1763154.32	393927.90	39°34'45.3165"N	80°13'42.7806"W	point
Upton 13H LP rev2	7897.00	2207.21	2773.46	1771865.60	381899.49	39°32'47.1188"N	80°11'50.3278"W	point

WELLPATH COMPOSITION - Ref Wellbore: Upton 13H AWB Ref Wellpath: Upton 13H AWP PROJ: 24327'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	735.00	OWSG XYZ Accel with XY Static and Continuous Gyro rev1.1	1 Imported Gyro 50' - 735'	Upton 13H AWB	2025-12-16
735.00	8223.00	OWSG MWD rev2 + HRGM	2 Imported AEP MWD HRGM 913' - 8223'	Upton 13H AWB	2025-12-16
8223.00	24327.00	BH AutoTrak G3/GT4/eXact (2019) (HRGM, Short spacing)	3 BH ATC Short spacing HDGM 8.5" 8294' - 24302'	Upton 13H AWB	2025-12-17

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