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NORTHEAST NATURAL ENERGY, LLC



Area: Marion County, WV
Field: Marion
Facility: Upton Pad
Slot: 9H

Well: Upton 9H
UWI: 47049025990000
Wellbore: Upton 9H AWB
Wellpath: Upton 9H AWP PROJ: 24079'

Plot reference wellpath is Upton 9H AWP PROJ: 24079'
Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Patterson 571 (KB)
North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 571 (KB)
Scale: True distance
Patterson 571 (KB) to Mean Sea Level: 1391 feet
Coordinates are in feet referenced to Slot
Mean Sea Level to Mud line (At Slot: 9H): -1366 feet
Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum
Created by: tranlam on 2026-01-09; Database: WA_MPL_EASTERNUS_Defn

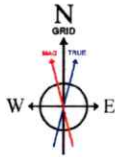
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Upton Pad			1769090.850	379732.390	39°32'25.4861N	80°12'25.5324W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
9H	-19.99	0.73	1769091.580	379712.400	39°32'25.2886N	80°12'25.5211W
Patterson 571 (KB) to Mud line (At Slot: 9H)					25ft	
Mean Sea Level to Mud line (At Slot: 9H)					-1366ft	
Patterson 571 (KB) to Mean Sea Level					1391ft	

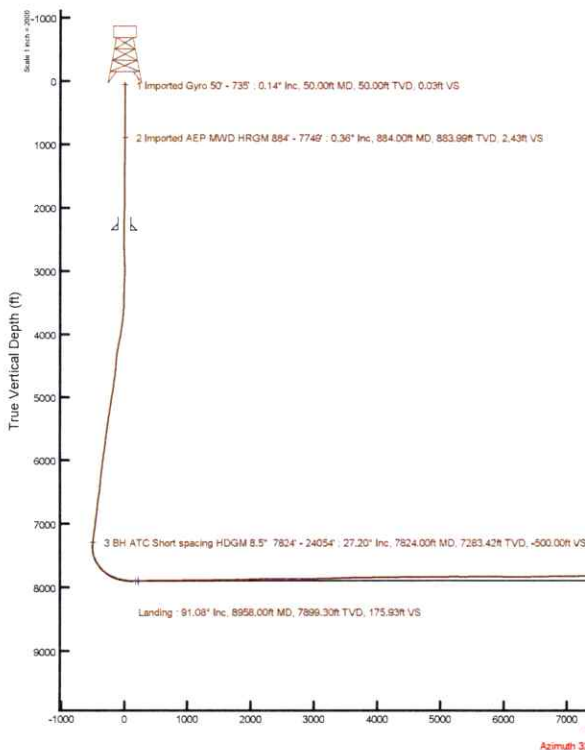
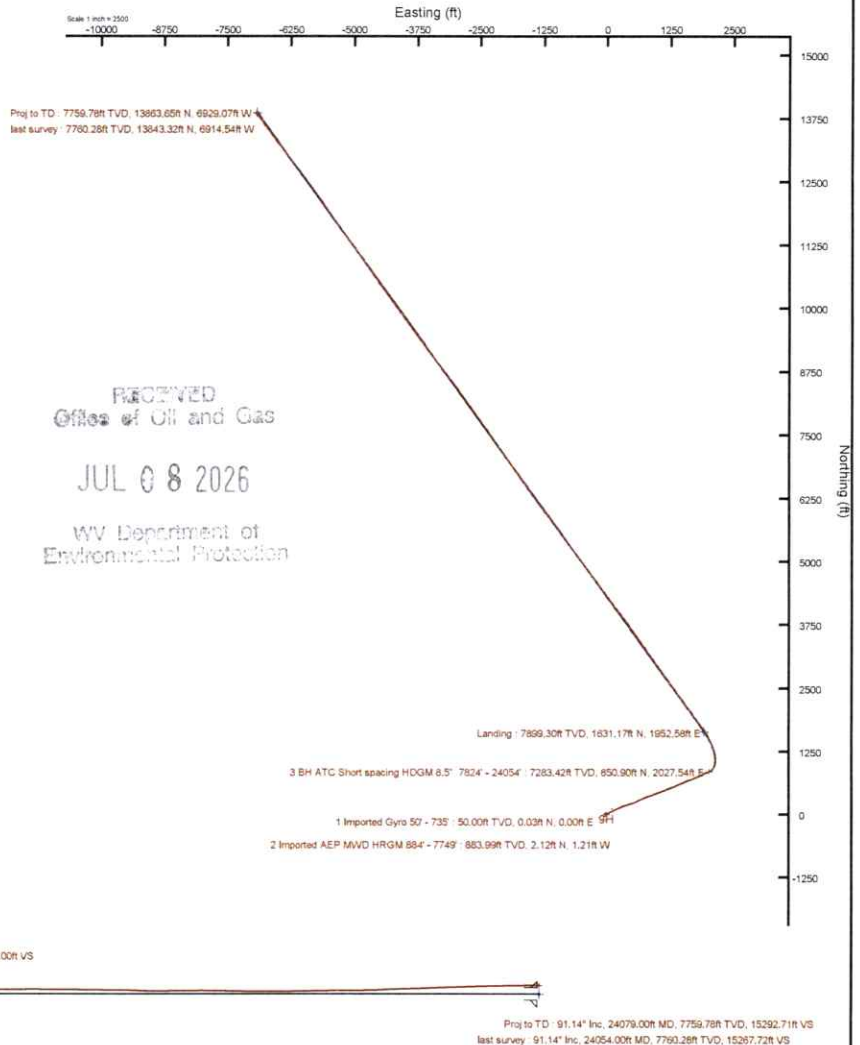
Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
24079.00	91.140	324.460	7759.78	13863.65	-6929.07	1762162.93	393575.22	39°34'41.7513"N	80°13'55.4060"W

API: 47049025990000
BH JOB: 112880584
DURATION: 12/26/2025 - 1/2/2026
RIG: Patterson 571



HDGM2025v1.0 (1900.0 to 2026.0) Dip: 65.94° Field: 51449.8 nT
Magnetic North is 9.17 degrees West of True North (at 2025-12-22)
Grid North is 0.45 degrees West of True North
To correct azimuth from True to Grid add 0.45 degrees
To correct azimuth from Magnetic to Grid subtract 8.72 degrees



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Upton 9H AWP PROJ: 24079'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 9H
Field	Marion	UWI	47049025990000
Facility	Upton Pad	Wellbore	Upton 9H AWP
Slot	9H		

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 2026-01-09 at 11:33:06 AM
Scale	0.999942	Last Updated	2026-01-04
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	-19.99	0.73	1769091.58	379712.40	39°32'25.2886"N	80°12'25.5211"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 (9H)	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	324.090°

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Facility	Upton Pad	Wellbore	Upton 9H AWB
Slot	9H		

WELLPATH DATA (266 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	354.860	0.00	0.00	0.00	0.00	1769091.58	379712.40	39°32'25.2886"N	80°12'25.5211"W	0.00	0.000	0.00
25.00	0.000	354.860	25.00	0.00	0.00	0.00	1769091.58	379712.40	39°32'25.2886"N	80°12'25.5211"W	0.00	0.000	0.00
50.00	0.140	354.860	50.00	0.03	0.03	0.00	1769091.58	379712.43	39°32'25.2889"N	80°12'25.5211"W	0.03	354.860	0.56
100.00	0.070	58.010	100.00	0.08	0.11	0.02	1769091.60	379712.51	39°32'25.2896"N	80°12'25.5208"W	0.11	9.353	0.25
150.00	0.030	268.740	150.00	0.08	0.12	0.03	1769091.61	379712.52	39°32'25.2898"N	80°12'25.5207"W	0.13	13.896	0.19
200.00	0.120	210.710	200.00	0.07	0.08	-0.01	1769091.57	379712.48	39°32'25.2894"N	80°12'25.5212"W	0.08	353.194	0.21
250.00	0.090	209.170	250.00	0.03	0.00	-0.06	1769091.52	379712.40	39°32'25.2886"N	80°12'25.5218"W	0.06	268.675	0.06
300.00	0.110	215.280	300.00	0.00	-0.07	-0.10	1769091.48	379712.33	39°32'25.2878"N	80°12'25.5224"W	0.13	233.780	0.05
350.00	0.130	230.290	350.00	-0.02	-0.15	-0.17	1769091.41	379712.25	39°32'25.2871"N	80°12'25.5233"W	0.23	229.109	0.07
400.00	0.210	287.160	400.00	0.05	-0.16	-0.30	1769091.28	379712.24	39°32'25.2870"N	80°12'25.5249"W	0.34	242.380	0.35
450.00	0.170	305.050	450.00	0.19	-0.09	-0.45	1769091.13	379712.31	39°32'25.2877"N	80°12'25.5268"W	0.46	258.791	0.14
500.00	0.350	257.680	500.00	0.32	-0.08	-0.66	1769090.92	379712.32	39°32'25.2877"N	80°12'25.5295"W	0.67	263.141	0.53
550.00	0.080	317.940	550.00	0.42	-0.09	-0.84	1769090.74	379712.31	39°32'25.2877"N	80°12'25.5317"W	0.84	264.095	0.64
600.00	0.230	299.440	600.00	0.55	-0.01	-0.95	1769090.63	379712.39	39°32'25.2884"N	80°12'25.5331"W	0.95	269.325	0.31
650.00	0.670	328.170	650.00	0.93	0.29	-1.19	1769090.39	379712.69	39°32'25.2913"N	80°12'25.5363"W	1.22	283.564	0.96
700.00	0.580	332.290	699.99	1.47	0.76	-1.46	1769090.12	379713.16	39°32'25.2960"N	80°12'25.5398"W	1.65	297.474	0.20
735.00	0.520	3.080	734.99	1.77	1.07	-1.53	1769090.05	379713.47	39°32'25.2991"N	80°12'25.5407"W	1.87	305.017	0.85
884.00	0.360	37.850	883.99	2.43	2.12	-1.21	1769090.37	379714.52	39°32'25.3094"N	80°12'25.5367"W	2.44	330.277	0.20
979.00	0.370	83.970	978.99	2.36	2.39	-0.72	1769090.86	379714.79	39°32'25.3121"N	80°12'25.5305"W	2.49	343.178	0.30
1073.00	0.580	89.700	1072.98	1.93	2.42	0.06	1769091.64	379714.82	39°32'25.3125"N	80°12'25.5206"W	2.42	1.322	0.23
1168.00	0.870	97.420	1167.98	1.15	2.33	1.25	1769092.83	379714.73	39°32'25.3117"N	80°12'25.5053"W	2.65	28.241	0.32
1262.00	1.110	113.740	1261.96	-0.12	1.87	2.79	1769094.37	379714.27	39°32'25.3073"N	80°12'25.4856"W	3.36	56.167	0.39
1356.00	1.400	117.460	1355.94	-1.93	0.98	4.65	1769096.23	379713.38	39°32'25.2986"N	80°12'25.4619"W	4.75	78.134	0.32
1451.00	0.700	112.980	1450.92	-3.47	0.21	6.21	1769097.79	379712.61	39°32'25.2912"N	80°12'25.4418"W	6.21	88.023	0.74
1545.00	0.110	333.090	1544.92	-3.87	0.07	6.70	1769098.28	379712.47	39°32'25.2898"N	80°12'25.4356"W	6.70	89.396	0.84
1639.45	0.530	281.460	1639.37	-3.46	0.24	6.23	1769097.81	379712.64	39°32'25.2914"N	80°12'25.4416"W	6.23	87.809	0.50
1735.00	0.760	238.540	1734.91	-3.09	0.00	5.25	1769096.83	379712.40	39°32'25.2889"N	80°12'25.4540"W	5.25	90.051	0.54
1830.00	1.570	225.040	1829.89	-3.24	-1.25	3.80	1769095.38	379711.15	39°32'25.2765"N	80°12'25.4725"W	4.00	108.269	0.89
1924.00	2.250	218.560	1923.84	-3.94	-3.61	1.73	1769093.31	379708.79	39°32'25.2531"N	80°12'25.4986"W	4.00	154.310	0.76

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WELLPATH DATA (266 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]
2019.00	3.560	208.570	2018.72	-5.71	-7.65	-0.84	1769090.74	379704.75	39°32'25.2129"N	80°12'25.5310"W	7.70	186.251	1.47

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Facility	Upton Pad	Wellbore	Upton 9H AWB
Slot	9H		

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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]
2115.00	3.480	204.570	2114.54	-8.43	-12.92	-3.48	1769088.10	379699.48	39°32'25.1606"N	80°12'25.5641"W	13.38	195.053	0.27
2209.00	2.910	194.650	2208.39	-11.35	-17.83	-5.27	1769086.32	379694.58	39°32'25.1120"N	80°12'25.5865"W	18.59	196.456	0.84
2229.00	2.930	195.260	2228.36	-11.99	-18.81	-5.53	1769086.05	379693.59	39°32'25.1023"N	80°12'25.5897"W	19.61	196.378	0.18
2278.00	2.960	197.660	2277.30	-13.53	-21.22	-6.24	1769085.34	379691.18	39°32'25.0784"N	80°12'25.5986"W	22.12	196.388	0.26
2341.00	2.410	195.960	2340.23	-15.31	-24.05	-7.10	1769084.48	379688.35	39°32'25.0504"N	80°12'25.6093"W	25.07	196.448	0.88
2437.00	1.000	350.950	2436.21	-15.81	-25.16	-7.79	1769083.79	379687.24	39°32'25.0393"N	80°12'25.6179"W	26.34	197.195	3.48
2531.00	3.000	27.420	2530.15	-13.98	-22.17	-6.78	1769084.80	379690.23	39°32'25.0690"N	80°12'25.6054"W	23.18	197.012	2.42
2626.00	5.380	33.190	2624.89	-11.27	-16.23	-3.20	1769088.38	379696.17	39°32'25.1279"N	80°12'25.5603"W	16.54	191.148	2.54
2721.00	7.860	37.610	2719.25	-7.84	-7.36	3.20	1769094.78	379705.04	39°32'25.2161"N	80°12'25.4794"W	8.03	156.465	2.66
2815.00	10.120	39.680	2812.09	-3.96	4.09	12.40	1769103.98	379716.49	39°32'25.3300"N	80°12'25.3632"W	13.06	71.741	2.43
2909.00	10.630	46.700	2904.55	-0.79	16.39	23.98	1769115.56	379728.79	39°32'25.4525"N	80°12'25.2166"W	29.05	55.646	1.45
3004.00	10.500	56.450	2997.95	-0.02	27.19	37.58	1769129.15	379739.59	39°32'25.5602"N	80°12'25.0442"W	46.38	54.113	1.88
3098.00	10.520	64.520	3090.38	-1.92	35.61	52.46	1769144.04	379748.01	39°32'25.6446"N	80°12'24.8550"W	63.41	55.830	1.56
3193.00	9.900	68.910	3183.87	-5.58	42.28	67.91	1769159.49	379754.68	39°32'25.7117"N	80°12'24.6585"W	80.00	58.092	1.05
3287.00	10.970	63.530	3276.32	-9.12	49.18	83.46	1769175.03	379761.57	39°32'25.7811"N	80°12'24.4607"W	96.87	59.491	1.54
3382.00	12.780	61.090	3369.28	-11.88	58.29	100.75	1769192.32	379770.68	39°32'25.8725"N	80°12'24.2410"W	116.39	59.949	1.98
3477.00	15.410	63.020	3461.42	-15.12	69.10	121.20	1769212.77	379781.49	39°32'25.9809"N	80°12'23.9810"W	139.51	60.312	2.81
3572.00	18.390	61.400	3552.30	-18.99	82.00	145.61	1769237.18	379794.39	39°32'26.1103"N	80°12'23.6707"W	167.11	60.615	3.18
3666.00	21.740	64.730	3640.59	-24.09	96.53	174.38	1769265.95	379808.93	39°32'26.2561"N	80°12'23.3050"W	199.32	61.032	3.76
3761.00	24.550	66.530	3727.94	-31.59	111.91	208.40	1769299.97	379824.30	39°32'26.4107"N	80°12'22.8723"W	236.54	61.765	3.05
3857.00	27.200	67.630	3814.30	-41.03	128.20	246.99	1769338.55	379840.59	39°32'26.5748"N	80°12'22.3813"W	278.28	62.568	2.81
3955.00	29.510	66.560	3900.54	-51.48	146.33	289.85	1769381.42	379858.72	39°32'26.7573"N	80°12'21.8360"W	324.70	63.213	2.41
4049.00	30.660	68.970	3981.88	-62.64	164.14	333.47	1769425.03	379876.53	39°32'26.9367"N	80°12'21.2811"W	371.68	63.792	1.77
4144.00	31.530	74.220	4063.24	-77.41	179.59	379.99	1769471.55	379891.98	39°32'27.0930"N	80°12'20.6889"W	420.29	64.703	3.00
4239.00	30.440	71.160	4144.69	-93.02	194.12	426.67	1769518.23	379906.51	39°32'27.2402"N	80°12'20.0944"W	468.76	65.536	2.02
4334.00	29.660	71.260	4226.92	-107.03	209.44	471.71	1769563.26	379921.83	39°32'27.3951"N	80°12'19.5211"W	516.12	66.058	0.82
4429.00	28.810	69.030	4309.82	-119.87	225.19	515.35	1769606.89	379937.57	39°32'27.5541"N	80°12'18.9657"W	562.40	66.396	1.45
4523.00	28.030	65.270	4392.50	-129.99	242.53	556.56	1769648.11	379954.92	39°32'27.7287"N	80°12'18.4414"W	607.11	66.454	2.08
4618.00	28.400	65.260	4476.21	-138.70	261.33	597.35	1769688.90	379973.71	39°32'27.9176"N	80°12'17.9226"W	652.01	66.372	0.39

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4712.00	28.820	65.430	4558.73	-147.48	280.10	638.26	1769729.80	379992.49	39°32'28.1064"N	80°12'17.4023"W	697.02	66.306	0.46

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4807.00	28.920	66.650	4641.93	-156.98	298.73	680.18	1769771.71	380011.11	39°32'28.2937"N	80°12'16.8692"W	742.88	66.289	0.63
4902.00	28.140	67.060	4725.39	-167.00	316.57	721.90	1769813.43	380028.95	39°32'28.4732"N	80°12'16.3384"W	788.26	66.322	0.85
4997.00	28.070	68.410	4809.19	-177.56	333.52	763.31	1769854.84	380045.90	39°32'28.6440"N	80°12'15.8115"W	832.99	66.397	0.67
5094.00	27.780	69.580	4894.90	-189.24	349.81	805.72	1769897.25	380062.19	39°32'28.8082"N	80°12'15.2719"W	878.37	66.532	0.64
5190.00	28.540	69.350	4979.53	-201.25	365.70	848.14	1769939.67	380078.08	39°32'28.9686"N	80°12'14.7319"W	923.62	66.675	0.80
5284.00	28.730	68.860	5062.04	-212.92	381.77	890.23	1769981.75	380094.14	39°32'29.1306"N	80°12'14.1963"W	968.63	66.788	0.32
5379.00	29.270	69.640	5145.12	-224.97	398.08	933.30	1770024.82	380110.46	39°32'29.2952"N	80°12'13.6482"W	1014.65	66.900	0.69
5474.00	30.810	68.370	5227.36	-237.20	415.13	977.69	1770069.21	380127.51	39°32'29.4671"N	80°12'13.0833"W	1062.17	66.994	1.75
5568.00	30.930	69.800	5308.05	-249.68	432.35	1022.74	1770114.26	380144.72	39°32'29.6407"N	80°12'12.5100"W	1110.37	67.085	0.79
5663.00	30.070	70.200	5389.90	-262.89	448.84	1068.04	1770159.56	380161.21	39°32'29.8072"N	80°12'11.9333"W	1158.52	67.206	0.93
5758.00	28.360	69.720	5472.81	-275.57	464.72	1111.61	1770203.12	380177.09	39°32'29.9676"N	80°12'11.3789"W	1204.84	67.312	1.82
5852.00	28.780	68.080	5555.37	-287.06	480.91	1153.54	1770245.05	380193.28	39°32'30.1308"N	80°12'10.8452"W	1249.77	67.369	0.95
5947.00	27.710	67.040	5639.06	-297.54	498.06	1195.09	1770286.60	380210.43	39°32'30.3035"N	80°12'10.3165"W	1294.73	67.376	1.24
6042.00	27.200	65.250	5723.36	-306.69	515.77	1235.15	1770326.66	380228.14	39°32'30.4816"N	80°12'9.8070"W	1338.51	67.336	1.02
6137.00	29.090	69.180	5807.13	-316.91	533.07	1276.46	1770367.96	380245.44	39°32'30.6558"N	80°12'9.2814"W	1383.30	67.334	2.79
6231.00	29.920	69.780	5888.94	-329.20	549.29	1319.82	1770411.32	380261.66	39°32'30.8195"N	80°12'8.7296"W	1429.56	67.403	0.94
6329.00	29.640	66.030	5974.00	-340.82	567.59	1364.90	1770456.40	380279.95	39°32'31.0038"N	80°12'8.1560"W	1478.21	67.420	1.92
6424.00	28.900	66.510	6056.87	-350.62	586.28	1407.42	1770498.92	380298.65	39°32'31.1918"N	80°12'7.6151"W	1524.65	67.385	0.82
6519.00	28.170	67.940	6140.33	-360.92	603.85	1449.26	1770540.75	380316.22	39°32'31.3687"N	80°12'7.0829"W	1570.03	67.380	1.05
6614.00	28.060	68.020	6224.12	-371.67	620.64	1490.76	1770582.25	380333.00	39°32'31.5378"N	80°12'6.5548"W	1614.79	67.397	0.12
6709.00	27.500	64.370	6308.18	-380.96	638.49	1531.26	1770622.75	380350.85	39°32'31.7173"N	80°12'6.0396"W	1659.04	67.365	1.88
6803.00	28.260	68.020	6391.27	-390.20	656.21	1571.46	1770662.95	380368.57	39°32'31.8955"N	80°12'5.5282"W	1702.97	67.336	1.99
6898.00	30.290	67.330	6474.14	-401.10	673.86	1614.43	1770705.91	380386.22	39°32'32.0733"N	80°12'4.9815"W	1749.42	67.344	2.17
6993.00	30.630	69.380	6556.03	-412.97	691.62	1659.19	1770750.67	380403.98	39°32'32.2522"N	80°12'4.4120"W	1797.57	67.372	1.15
7087.00	28.140	68.210	6637.93	-424.69	708.28	1702.19	1770793.67	380420.64	39°32'32.4203"N	80°12'3.8647"W	1843.67	67.408	2.72
7182.00	26.920	65.000	6722.17	-434.23	725.69	1742.49	1770833.96	380438.05	39°32'32.5954"N	80°12'3.3521"W	1887.56	67.390	2.02
7276.00	27.410	67.250	6805.81	-443.18	743.05	1781.73	1770873.20	380455.41	39°32'32.7700"N	80°12'2.8529"W	1930.46	67.362	1.21
7370.00	28.260	67.490	6888.93	-453.27	759.94	1822.24	1770913.71	380472.29	39°32'32.9400"N	80°12'2.3375"W	1974.35	67.362	0.91
7464.00	29.580	66.450	6971.21	-463.39	777.73	1864.07	1770955.54	380490.08	39°32'33.1190"N	80°12'1.8054"W	2019.80	67.353	1.50

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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]
7559.00	30.450	64.390	7053.47	-472.71	797.50	1907.27	1770998.74	380509.85	39°32'33.3178"N	80°12'1.2559"W	2067.29	67.308	1.42

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REFERENCE WELLPATH IDENTIFICATION

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Field	Marion	UWI	47049025990000
Facility	Upton Pad	Wellbore	Upton 9H AWP
Slot	9H		

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7654.00	30.930	67.280	7135.17	-482.59	817.34	1951.50	1771042.96	380529.69	39°32'33.5172"N	80°12'0.6933"W	2115.75	67.275	1.63
7749.00	29.280	66.610	7217.35	-493.20	835.99	1995.35	1771086.81	380548.34	39°32'33.7050"N	80°12'0.1354"W	2163.40	67.268	1.77
7824.00	27.200	63.590	7283.42	-500.00	850.90	2027.54	1771119.00	380563.25	39°32'33.8548"N	80°11'59.7260"W	2198.85	67.234	3.36
7919.00	28.000	55.090	7367.64	-503.98	873.33	2065.29	1771156.74	380585.68	39°32'34.0793"N	80°11'59.2464"W	2242.35	67.078	4.23
8014.00	31.410	38.060	7450.30	-497.52	905.65	2098.91	1771190.36	380617.99	39°32'34.4013"N	80°11'58.8205"W	2285.96	66.660	9.55
8108.00	32.430	18.700	7530.29	-476.10	948.92	2122.15	1771213.60	380661.27	39°32'34.8308"N	80°11'58.5281"W	2324.64	65.908	10.91
8203.00	37.290	7.450	7608.30	-440.36	1001.67	2134.07	1771225.52	380714.01	39°32'35.3530"N	80°11'58.3812"W	2357.45	64.856	8.47
8298.00	45.010	1.060	7679.82	-392.51	1063.92	2138.43	1771229.88	380776.25	39°32'35.9685"N	80°11'58.3317"W	2388.47	63.549	9.24
8391.00	53.000	355.170	7740.80	-334.30	1133.95	2135.90	1771227.36	380846.28	39°32'36.6605"N	80°11'58.3709"W	2418.25	62.036	9.83
8486.00	63.740	350.550	7790.57	-263.44	1214.04	2125.68	1771217.13	380926.37	39°32'37.4512"N	80°11'58.5094"W	2447.94	60.268	12.04
8580.00	67.350	343.820	7829.52	-184.78	1297.38	2106.65	1771198.10	381009.70	39°32'38.2733"N	80°11'58.7606"W	2474.10	58.373	7.56
8675.00	73.400	338.540	7861.43	-99.30	1381.98	2077.74	1771169.19	381094.29	39°32'39.1072"N	80°11'59.1381"W	2495.37	56.371	8.24
8769.00	79.320	335.620	7883.59	-10.34	1466.05	2042.15	1771133.61	381178.37	39°32'39.9353"N	80°11'59.6006"W	2513.90	54.326	6.98
8863.00	85.220	331.720	7896.23	81.45	1549.47	2000.85	1771092.31	381261.78	39°32'40.7566"N	80°12'0.1362"W	2530.66	52.245	7.50
8958.00	91.080	327.140	7899.30	175.93	1631.17	1952.58	1771044.05	381343.47	39°32'41.5602"N	80°12'0.7604"W	2544.27	50.125	7.83
9053.00	91.570	322.840	7897.10	270.87	1708.94	1898.11	1770989.57	381421.23	39°32'42.3246"N	80°12'1.4635"W	2554.07	48.002	4.55
9146.00	90.890	322.060	7895.11	363.81	1782.65	1841.44	1770932.91	381494.94	39°32'43.0487"N	80°12'2.1942"W	2562.96	45.929	1.11
9241.00	90.030	323.860	7894.34	458.78	1858.48	1784.22	1770875.70	381570.76	39°32'43.7937"N	80°12'2.9322"W	2576.31	43.832	2.10
9336.00	89.970	323.870	7894.34	553.78	1935.20	1728.20	1770819.68	381647.48	39°32'44.5476"N	80°12'3.6549"W	2594.55	41.766	0.06
9431.00	89.940	324.170	7894.42	648.78	2012.08	1672.39	1770763.87	381724.35	39°32'45.3031"N	80°12'4.3750"W	2616.36	39.733	0.32
9525.00	90.920	323.690	7893.71	742.78	2088.05	1617.05	1770708.53	381800.33	39°32'46.0497"N	80°12'5.0890"W	2640.99	37.755	1.16
9619.00	90.920	323.720	7892.20	836.76	2163.81	1561.41	1770652.90	381876.07	39°32'46.7940"N	80°12'5.8068"W	2668.34	35.814	0.03
9714.00	91.020	324.380	7890.59	931.75	2240.70	1505.65	1770597.14	381952.96	39°32'47.5496"N	80°12'6.5263"W	2699.58	33.899	0.70
9809.00	90.220	323.860	7889.57	1026.74	2317.67	1449.97	1770541.47	382029.93	39°32'48.3060"N	80°12'7.2447"W	2733.86	32.031	1.00
9904.00	90.650	324.640	7888.85	1121.74	2394.76	1394.47	1770485.97	382107.02	39°32'49.0636"N	80°12'7.9609"W	2771.18	30.212	0.94
9999.00	90.710	324.440	7887.72	1216.73	2472.14	1339.36	1770430.86	382184.39	39°32'49.8241"N	80°12'8.6721"W	2811.65	28.448	0.22
10094.00	90.460	324.210	7886.75	1311.72	2549.31	1283.96	1770375.47	382261.55	39°32'50.5824"N	80°12'9.3870"W	2854.39	26.732	0.36
10189.00	90.550	324.270	7885.91	1406.72	2626.39	1228.45	1770319.95	382338.63	39°32'51.3400"N	80°12'10.1033"W	2899.49	25.067	0.11
10284.00	90.710	324.630	7884.87	1501.71	2703.68	1173.22	1770264.73	382415.92	39°32'52.0995"N	80°12'10.8161"W	2947.26	23.458	0.41

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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]
10378.00	90.550	324.360	7883.83	1595.70	2780.20	1118.63	1770210.14	382492.43	39°32'52.8515"N	80°12'11.5206"W	2996.80	21.918	0.33

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10472.00	91.110	324.500	7882.47	1689.69	2856.65	1063.95	1770155.47	382568.88	39°32'53.6028"N	80°12'12.2262"W	3048.35	20.428	0.61
10566.00	91.350	324.450	7880.45	1783.66	2933.13	1009.35	1770100.87	382645.36	39°32'54.3545"N	80°12'12.9309"W	3101.94	18.989	0.26
10661.00	91.420	324.650	7878.16	1878.63	3010.50	954.26	1770045.79	382722.72	39°32'55.1148"N	80°12'13.6418"W	3158.12	17.588	0.22
10756.00	91.600	324.400	7875.65	1973.60	3087.84	899.15	1769990.68	382800.05	39°32'55.8749"N	80°12'14.3531"W	3216.09	16.235	0.32
10851.00	91.420	324.270	7873.15	2068.56	3164.99	843.78	1769935.31	382877.20	39°32'56.6331"N	80°12'15.0677"W	3275.54	14.928	0.23
10946.00	91.350	324.390	7870.85	2163.54	3242.15	788.40	1769879.93	382954.35	39°32'57.3913"N	80°12'15.7823"W	3336.63	13.667	0.15
11041.00	91.820	325.220	7868.23	2258.49	3319.75	733.67	1769825.20	383031.95	39°32'58.1540"N	80°12'16.4888"W	3399.86	12.462	1.00
11136.00	90.340	323.770	7866.44	2353.47	3397.07	678.51	1769770.05	383109.27	39°32'58.9138"N	80°12'17.2007"W	3464.17	11.295	2.18
11231.00	90.030	324.710	7866.13	2448.46	3474.16	622.99	1769714.53	383186.35	39°32'59.6714"N	80°12'17.9172"W	3529.57	10.166	1.04
11325.00	90.060	324.730	7866.05	2542.46	3550.89	568.70	1769660.24	383263.08	39°33'0.4255"N	80°12'18.6179"W	3596.15	9.099	0.04
11419.00	90.280	324.930	7865.78	2636.45	3627.73	514.55	1769606.10	383339.92	39°33'1.1807"N	80°12'19.3168"W	3664.04	8.073	0.32
11515.00	90.090	324.950	7865.47	2732.44	3706.31	459.41	1769550.96	383418.49	39°33'1.9530"N	80°12'20.0287"W	3734.68	7.066	0.20
11610.00	91.020	323.570	7864.55	2827.43	3783.42	403.92	1769495.48	383495.59	39°33'2.7107"N	80°12'20.7447"W	3804.92	6.094	1.75
11704.00	90.280	322.910	7863.48	2921.41	3858.72	347.67	1769439.23	383570.89	39°33'3.4505"N	80°12'21.4704"W	3874.35	5.148	1.05
11799.00	91.110	323.640	7862.33	3016.40	3934.86	290.87	1769382.43	383647.02	39°33'4.1986"N	80°12'22.2032"W	3945.59	4.228	1.16
11894.00	90.920	321.060	7860.64	3111.33	4010.05	232.85	1769324.42	383722.21	39°33'4.9372"N	80°12'22.9514"W	4016.81	3.323	2.72
11988.00	91.690	323.720	7858.50	3205.25	4084.49	175.51	1769267.08	383796.65	39°33'5.6684"N	80°12'23.6909"W	4088.26	2.460	2.95
12083.00	91.570	323.710	7855.80	3300.21	4161.04	119.31	1769210.88	383873.19	39°33'6.4206"N	80°12'24.4160"W	4162.75	1.642	0.13
12178.00	92.060	323.440	7852.79	3395.16	4237.44	62.93	1769154.51	383949.59	39°33'7.1712"N	80°12'25.1435"W	4237.91	0.851	0.59
12273.00	92.090	323.550	7849.35	3490.09	4313.75	6.45	1769098.03	384025.89	39°33'7.9210"N	80°12'25.8721"W	4313.76	0.086	0.12
12368.00	91.020	323.590	7846.77	3585.05	4390.16	-49.94	1769041.64	384102.30	39°33'8.6717"N	80°12'26.5998"W	4390.44	359.348	1.13
12463.00	90.920	323.680	7845.17	3680.04	4466.65	-106.26	1768985.33	384178.78	39°33'9.4233"N	80°12'27.3264"W	4467.91	358.637	0.14
12557.00	90.770	324.070	7843.78	3774.03	4542.57	-161.67	1768929.92	384254.69	39°33'10.1692"N	80°12'28.0415"W	4545.44	357.962	0.44
12651.00	90.550	323.720	7842.70	3868.02	4618.51	-217.06	1768874.53	384330.63	39°33'10.9154"N	80°12'28.7562"W	4623.60	357.309	0.44
12746.00	90.990	324.090	7841.42	3963.01	4695.26	-273.02	1768818.58	384407.38	39°33'11.6696"N	80°12'29.4784"W	4703.19	356.672	0.61
12840.00	90.520	323.600	7840.18	4057.00	4771.15	-328.47	1768763.13	384483.27	39°33'12.4153"N	80°12'30.1939"W	4782.45	356.062	0.72
12935.00	90.650	324.130	7839.21	4151.99	4847.88	-384.49	1768707.11	384559.98	39°33'13.1692"N	80°12'30.9168"W	4863.10	355.465	0.57
13030.00	90.520	323.350	7838.24	4246.99	4924.47	-440.68	1768650.93	384636.58	39°33'13.9218"N	80°12'31.6418"W	4944.15	354.886	0.83
13125.00	90.550	323.550	7837.35	4341.98	5000.79	-497.25	1768594.36	384712.89	39°33'14.6716"N	80°12'32.3717"W	5025.45	354.322	0.21

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WELLPATH DATA (266 stations)

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13219.00	90.430	323.440	7836.55	4435.97	5076.34	-553.17	1768538.45	384788.44	39°33'15.4139"N	80°12'33.0932"W	5106.39	353.781	0.17

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13313.00	90.490	323.930	7835.80	4529.96	5152.08	-608.83	1768482.78	384864.17	39°33'16.1581"N	80°12'33.8115"W	5187.93	353.260	0.53
13408.00	90.490	323.730	7834.98	4624.96	5228.77	-664.90	1768426.72	384940.85	39°33'16.9116"N	80°12'34.5350"W	5270.87	352.753	0.21
13503.00	90.220	323.140	7834.39	4719.95	5305.07	-721.49	1768370.13	385017.15	39°33'17.6612"N	80°12'35.2652"W	5353.91	352.255	0.68
13599.00	90.000	323.250	7834.21	4815.94	5381.93	-779.00	1768312.62	385094.01	39°33'18.4164"N	80°12'36.0072"W	5438.02	351.764	0.26
13694.00	90.310	324.010	7833.95	4910.93	5458.43	-835.34	1768256.29	385170.50	39°33'19.1680"N	80°12'36.7342"W	5521.98	351.299	0.86
13789.00	90.090	323.790	7833.62	5005.93	5535.19	-891.31	1768200.32	385247.25	39°33'19.9222"N	80°12'37.4565"W	5606.49	350.852	0.33
13884.00	91.140	324.240	7832.60	5100.92	5612.05	-947.13	1768144.51	385324.11	39°33'20.6774"N	80°12'38.1769"W	5691.41	350.421	1.20
13977.00	89.780	323.370	7831.86	5193.92	5687.10	-1002.04	1768089.60	385399.16	39°33'21.4148"N	80°12'38.8856"W	5774.70	350.007	1.74
14072.00	89.480	323.700	7832.47	5288.91	5763.50	-1058.50	1768033.14	385475.55	39°33'22.1654"N	80°12'39.6141"W	5859.89	349.593	0.47
14167.00	90.090	323.480	7832.83	5383.91	5839.95	-1114.89	1767976.76	385552.00	39°33'22.9166"N	80°12'40.3417"W	5945.42	349.192	0.68
14262.00	91.230	323.910	7831.73	5478.90	5916.50	-1171.13	1767920.52	385628.55	39°33'23.6688"N	80°12'41.0675"W	6031.30	348.803	1.28
14356.00	90.650	323.380	7830.19	5572.88	5992.20	-1226.85	1767864.81	385704.24	39°33'24.4125"N	80°12'41.7865"W	6116.50	348.429	0.84
14451.00	89.850	323.090	7829.77	5667.87	6068.30	-1283.71	1767807.95	385780.33	39°33'25.1601"N	80°12'42.5201"W	6202.59	348.056	0.90
14546.00	89.720	324.180	7830.13	5762.86	6144.80	-1340.03	1767751.63	385856.83	39°33'25.9117"N	80°12'43.2470"W	6289.22	347.698	1.16
14640.00	89.380	323.360	7830.87	5856.86	6220.62	-1395.59	1767696.08	385932.65	39°33'26.6567"N	80°12'43.9639"W	6375.25	347.355	0.94
14734.00	89.230	324.990	7832.01	5950.85	6296.83	-1450.60	1767641.07	386008.85	39°33'27.4055"N	80°12'44.6740"W	6461.76	347.027	1.74
14829.00	89.110	325.200	7833.39	6045.82	6374.73	-1504.96	1767586.71	386086.75	39°33'28.1711"N	80°12'45.3759"W	6549.97	346.717	0.25
14924.00	89.290	324.980	7834.71	6140.80	6452.63	-1559.32	1767532.35	386164.64	39°33'28.9367"N	80°12'46.0778"W	6638.36	346.415	0.30
15018.00	90.000	324.810	7835.29	6234.79	6529.53	-1613.38	1767478.30	386241.53	39°33'29.6925"N	80°12'46.7758"W	6725.90	346.121	0.78
15113.00	90.980	324.770	7834.48	6329.77	6607.14	-1668.15	1767423.53	386319.14	39°33'30.4552"N	80°12'47.4829"W	6814.47	345.830	1.03
15207.00	92.060	324.810	7831.99	6423.73	6683.91	-1722.33	1767369.36	386395.91	39°33'31.2097"N	80°12'48.1824"W	6902.25	345.550	1.15
15302.00	91.110	325.130	7829.36	6518.68	6761.68	-1776.83	1767314.85	386473.67	39°33'31.9739"N	80°12'48.8862"W	6991.24	345.277	1.06
15397.00	90.280	324.730	7828.21	6613.67	6839.42	-1831.41	1767260.28	386551.41	39°33'32.7380"N	80°12'49.5910"W	7080.38	345.009	0.97
15491.00	90.650	324.940	7827.45	6707.65	6916.26	-1885.55	1767206.14	386628.25	39°33'33.4931"N	80°12'50.2899"W	7168.68	344.750	0.45
15586.00	90.280	324.780	7826.67	6802.64	6993.95	-1940.23	1767151.47	386705.93	39°33'34.2566"N	80°12'50.9959"W	7258.08	344.495	0.42
15681.00	90.680	324.810	7825.88	6897.63	7071.57	-1994.99	1767096.71	386783.54	39°33'35.0194"N	80°12'51.7030"W	7347.59	344.245	0.42
15776.00	90.620	325.410	7824.80	6992.61	7149.49	-2049.33	1767042.37	386861.46	39°33'35.7852"N	80°12'52.4047"W	7437.40	344.006	0.63
15871.00	90.710	324.980	7823.70	7087.59	7227.49	-2103.55	1766988.16	386939.45	39°33'36.5517"N	80°12'53.1049"W	7527.38	343.772	0.46
15965.00	90.550	324.760	7822.67	7181.57	7304.36	-2157.64	1766934.07	387016.32	39°33'37.3072"N	80°12'53.8033"W	7616.37	343.543	0.29

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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]
16060.00	89.820	324.960	7822.36	7276.56	7382.04	-2212.32	1766879.40	387094.00	39°33'38.0706"N	80°12'54.5093"W	7706.42	343.317	0.80

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 9H
Field	Marion	UWI	47049025990000
Facility	Upton Pad	Wellbore	Upton 9H AWB
Slot	9H		

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]
16155.00	89.820	325.010	7822.66	7371.55	7459.85	-2266.83	1766824.89	387171.80	39°33'38.8353"N	80°12'55.2132"W	7796.66	343.098	0.05
16250.00	89.780	324.950	7822.99	7466.54	7537.65	-2321.34	1766770.38	387249.59	39°33'39.5999"N	80°12'55.9172"W	7887.00	342.883	0.08
16345.00	89.510	324.730	7823.58	7561.53	7615.31	-2376.05	1766715.67	387327.26	39°33'40.3631"N	80°12'56.6235"W	7977.38	342.672	0.37
16440.00	89.080	324.900	7824.75	7656.51	7692.95	-2430.79	1766660.94	387404.89	39°33'41.1261"N	80°12'57.3303"W	8067.85	342.465	0.49
16535.00	90.090	325.790	7825.43	7751.48	7771.09	-2484.80	1766606.93	387483.03	39°33'41.8941"N	80°12'58.0279"W	8158.68	342.268	1.42
16630.00	89.630	324.110	7825.67	7846.47	7848.86	-2539.36	1766552.37	387560.79	39°33'42.6583"N	80°12'58.7324"W	8249.42	342.072	1.83
16725.00	89.660	324.040	7826.25	7941.47	7925.79	-2595.10	1766496.64	387637.71	39°33'43.4142"N	80°12'59.4519"W	8339.82	341.870	0.08
16819.00	88.650	323.690	7827.64	8035.46	8001.70	-2650.52	1766441.22	387713.62	39°33'44.1600"N	80°13'0.1673"W	8429.26	341.673	1.14
16913.00	89.050	324.070	7829.53	8129.44	8077.61	-2705.92	1766385.82	387789.53	39°33'44.9059"N	80°13'0.8824"W	8518.79	341.480	0.59
17008.00	89.450	324.400	7830.77	8224.43	8154.69	-2761.44	1766330.31	387866.60	39°33'45.6633"N	80°13'1.5991"W	8609.56	341.292	0.55
17104.00	89.480	324.180	7831.67	8320.42	8232.64	-2817.47	1766274.28	387944.54	39°33'46.4292"N	80°13'2.3225"W	8701.41	341.107	0.23
17198.00	89.110	324.160	7832.82	8414.42	8308.84	-2872.49	1766219.26	388020.74	39°33'47.1780"N	80°13'3.0328"W	8791.37	340.929	0.39
17294.00	89.350	322.960	7834.11	8510.40	8386.07	-2929.51	1766162.25	388097.96	39°33'47.9366"N	80°13'3.7686"W	8883.02	340.744	1.27
17389.00	89.780	322.980	7834.84	8605.38	8461.90	-2986.72	1766105.04	388173.79	39°33'48.6816"N	80°13'4.5069"W	8973.53	340.559	0.45
17484.00	89.720	322.950	7835.25	8700.36	8537.74	-3043.94	1766047.83	388249.62	39°33'49.4265"N	80°13'5.2452"W	9064.13	340.377	0.07
17579.00	88.650	323.070	7836.60	8795.33	8613.61	-3101.09	1765990.68	388325.49	39°33'50.1718"N	80°13'5.9827"W	9154.84	340.200	1.13
17674.00	88.280	322.820	7839.15	8890.28	8689.40	-3158.31	1765933.46	388401.28	39°33'50.9163"N	80°13'6.7211"W	9245.57	340.025	0.47
17769.00	86.800	322.610	7843.22	8985.16	8764.91	-3215.81	1765875.97	388476.78	39°33'51.6580"N	80°13'7.4629"W	9336.22	339.852	1.57
17863.00	88.550	323.300	7847.04	9079.06	8839.87	-3272.39	1765819.39	388551.74	39°33'52.3944"N	80°13'8.1930"W	9426.13	339.686	2.00
17959.00	89.420	323.150	7848.74	9175.03	8916.76	-3329.85	1765761.93	388628.62	39°33'53.1497"N	80°13'8.9346"W	9518.22	339.522	0.92
18054.00	90.280	323.710	7848.99	9270.03	8993.05	-3386.45	1765705.33	388704.91	39°33'53.8992"N	80°13'9.6651"W	9609.53	339.365	1.08
18148.00	91.020	321.120	7847.92	9363.97	9067.53	-3443.78	1765648.01	388779.39	39°33'54.6307"N	80°13'10.4047"W	9699.47	339.204	2.87
18243.00	90.370	322.430	7846.77	9458.88	9142.15	-3502.55	1765589.24	388854.00	39°33'55.3636"N	80°13'11.1628"W	9790.14	339.037	1.54
18338.00	90.430	322.370	7846.10	9553.84	9217.42	-3560.51	1765531.28	388929.27	39°33'56.1028"N	80°13'11.9106"W	9881.20	338.879	0.09
18432.00	90.430	322.990	7845.40	9647.81	9292.17	-3617.50	1765474.30	389004.01	39°33'56.8370"N	80°13'12.6459"W	9971.50	338.729	0.66
18528.00	91.140	323.090	7844.08	9743.78	9368.87	-3675.22	1765416.58	389080.71	39°33'57.5905"N	80°13'13.3907"W	10063.95	338.581	0.75
18622.00	90.430	323.660	7842.80	9837.77	9444.31	-3731.29	1765360.52	389156.14	39°33'58.3315"N	80°13'14.1144"W	10154.68	338.442	0.97
18717.00	90.520	323.580	7842.01	9932.76	9520.79	-3787.64	1765304.17	389232.62	39°33'59.0829"N	80°13'14.8417"W	10246.54	338.306	0.13
18812.00	88.550	322.260	7842.78	10027.73	9596.57	-3844.91	1765246.90	389308.39	39°33'59.8273"N	80°13'15.5807"W	10338.16	338.166	2.50

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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]
18906.00	89.380	324.690	7844.48	10121.70	9672.09	-3900.84	1765190.98	389383.91	39°34'0.5692"N	80°13'16.3027"W	10429.09	338.035	2.73

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 9H
Field	Marion	UWI	47049025990000
Facility	Upton Pad	Wellbore	Upton 9H AWP
Slot	9H		

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]
19001.00	89.350	324.280	7845.53	10216.69	9749.41	-3956.02	1765135.79	389461.23	39°34'1.3290"N	80°13'17.0152"W	10521.46	337.914	0.43
19095.00	89.290	324.750	7846.65	10310.68	9825.95	-4010.59	1765081.24	389537.76	39°34'2.0810"N	80°13'17.7198"W	10612.92	337.797	0.50
19189.00	88.860	324.660	7848.16	10404.67	9902.66	-4064.89	1765026.93	389614.46	39°34'2.8348"N	80°13'18.4211"W	10704.48	337.683	0.47
19284.00	88.860	324.780	7850.05	10499.64	9980.20	-4119.75	1764972.08	389692.00	39°34'3.5968"N	80°13'19.1295"W	10797.07	337.570	0.13
19379.00	89.200	325.190	7851.66	10594.62	10057.99	-4174.25	1764917.58	389769.78	39°34'4.3613"N	80°13'19.8335"W	10889.79	337.461	0.56
19473.00	89.750	322.720	7852.52	10688.60	10133.98	-4229.56	1764862.28	389845.77	39°34'5.1079"N	80°13'20.5474"W	10981.20	337.346	2.69
19568.00	90.000	324.720	7852.73	10783.60	10210.56	-4285.77	1764806.07	389922.35	39°34'5.8602"N	80°13'21.2731"W	11073.54	337.230	2.12
19663.00	89.350	324.580	7853.27	10878.59	10288.05	-4340.73	1764751.11	389999.83	39°34'6.6216"N	80°13'21.9829"W	11166.28	337.124	0.70
19757.00	89.410	324.500	7854.29	10972.58	10364.61	-4395.26	1764696.59	390076.38	39°34'7.3739"N	80°13'22.6870"W	11258.04	337.020	0.11
19852.00	90.400	324.700	7854.44	11067.58	10442.04	-4450.29	1764641.56	390153.81	39°34'8.1348"N	80°13'23.3977"W	11350.83	336.917	1.06
19948.00	90.400	324.770	7853.77	11163.57	10520.42	-4505.72	1764586.14	390232.19	39°34'8.9050"N	80°13'24.1135"W	11444.68	336.815	0.07
20042.00	90.370	324.760	7853.14	11257.56	10597.20	-4559.95	1764531.91	390308.96	39°34'9.6595"N	80°13'24.8139"W	11536.63	336.718	0.03
20137.00	90.490	324.350	7852.43	11352.55	10674.59	-4615.04	1764476.82	390386.35	39°34'10.4199"N	80°13'25.5253"W	11629.51	336.619	0.45
20232.00	90.890	324.520	7851.28	11447.55	10751.86	-4670.29	1764421.57	390463.62	39°34'11.1792"N	80°13'26.2388"W	11722.38	336.521	0.46
20327.00	90.890	324.670	7849.81	11542.53	10829.29	-4725.32	1764366.55	390541.04	39°34'11.9400"N	80°13'26.9495"W	11815.33	336.426	0.16
20421.00	90.980	324.970	7848.28	11636.51	10906.11	-4779.47	1764312.40	390617.85	39°34'12.6948"N	80°13'27.6489"W	11907.41	336.335	0.33
20516.00	91.320	324.630	7846.37	11731.48	10983.72	-4834.22	1764257.65	390695.46	39°34'13.4575"N	80°13'28.3560"W	12000.49	336.244	0.51
20611.00	91.350	324.710	7844.16	11826.45	11061.20	-4889.14	1764202.73	390772.94	39°34'14.2189"N	80°13'29.0653"W	12093.55	336.154	0.09
20706.00	90.620	324.220	7842.52	11921.44	11138.50	-4944.35	1764147.53	390850.23	39°34'14.9784"N	80°13'29.7782"W	12186.58	336.064	0.93
20800.00	90.580	324.780	7841.54	12015.43	11215.02	-4998.93	1764092.95	390926.75	39°34'15.7303"N	80°13'30.4831"W	12278.68	335.976	0.60
20894.00	90.430	324.540	7840.71	12109.42	11291.70	-5053.30	1764038.58	391003.42	39°34'16.4837"N	80°13'31.1853"W	12370.86	335.890	0.30
20989.00	90.280	324.230	7840.12	12204.42	11368.93	-5108.62	1763983.27	391080.64	39°34'17.2425"N	80°13'31.8997"W	12463.97	335.803	0.36
21084.00	90.680	325.220	7839.32	12299.41	11446.48	-5163.48	1763928.41	391158.19	39°34'18.0046"N	80°13'32.6082"W	12557.21	335.720	1.12
21179.00	90.460	324.630	7838.38	12394.39	11524.22	-5218.07	1763873.83	391235.93	39°34'18.7685"N	80°13'33.3134"W	12650.53	335.639	0.66
21274.00	90.620	324.730	7837.48	12489.38	11601.73	-5272.99	1763818.91	391313.44	39°34'19.5301"N	80°13'34.0227"W	12743.81	335.558	0.20
21369.00	91.080	324.500	7836.07	12584.37	11679.18	-5327.99	1763763.91	391390.87	39°34'20.2911"N	80°13'34.7331"W	12837.08	335.478	0.54
21463.00	91.660	324.970	7833.83	12678.33	11755.90	-5382.25	1763709.65	391467.60	39°34'21.0450"N	80°13'35.4339"W	12929.42	335.400	0.79
21558.00	92.310	325.370	7830.54	12773.26	11833.84	-5436.48	1763655.43	391545.53	39°34'21.8109"N	80°13'36.1344"W	13022.86	335.326	0.80
21653.00	93.020	324.910	7826.12	12868.14	11911.70	-5490.72	1763601.19	391623.39	39°34'22.5761"N	80°13'36.8351"W	13116.28	335.253	0.89

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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]
21747.00	92.250	324.990	7821.80	12962.03	11988.58	-5544.64	1763547.27	391700.25	39°34'23.3315"N	80°13'37.5316"W	13208.67	335.180	0.82

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WELLPATH DATA (266 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]
21842.00	91.940	325.310	7818.33	13056.95	12066.49	-5598.89	1763493.02	391778.16	39°34'24.0971"N	80°13'38.2325"W	13302.17	335.109	0.47
21936.00	91.230	324.980	7815.73	13150.89	12143.59	-5652.59	1763439.33	391855.26	39°34'24.8548"N	80°13'38.9262"W	13394.72	335.039	0.83
22031.00	91.760	323.890	7813.25	13245.86	12220.84	-5707.83	1763384.10	391932.51	39°34'25.6139"N	80°13'39.6395"W	13488.08	334.965	1.28
22126.00	91.940	324.160	7810.18	13340.81	12297.68	-5763.60	1763328.32	392009.34	39°34'26.3688"N	80°13'40.3598"W	13581.32	334.889	0.34
22221.00	91.850	324.020	7807.04	13435.76	12374.59	-5819.29	1763272.64	392086.24	39°34'27.1243"N	80°13'41.0789"W	13674.59	334.814	0.18
22316.00	91.910	324.450	7803.92	13530.71	12451.63	-5874.79	1763217.15	392163.28	39°34'27.8813"N	80°13'41.7955"W	13767.94	334.742	0.46
22410.00	91.970	323.860	7800.74	13624.65	12527.78	-5929.80	1763162.14	392239.43	39°34'28.6295"N	80°13'42.5060"W	13860.30	334.670	0.63
22504.00	92.000	322.950	7797.48	13718.59	12603.21	-5985.80	1763106.14	392314.85	39°34'29.3704"N	80°13'43.2290"W	13952.44	334.595	0.97
22599.00	92.000	322.890	7794.17	13813.51	12678.95	-6043.05	1763048.90	392390.59	39°34'30.1144"N	80°13'43.9678"W	14045.43	334.517	0.06
22694.00	91.970	322.630	7790.88	13908.43	12754.53	-6100.50	1762991.44	392466.17	39°34'30.8567"N	80°13'44.7094"W	14138.40	334.438	0.28
22789.00	91.720	322.610	7787.82	14003.35	12829.98	-6158.15	1762933.80	392541.61	39°34'31.5978"N	80°13'45.4534"W	14231.35	334.360	0.26
22883.00	91.690	321.990	7785.02	14097.26	12904.33	-6215.60	1762876.35	392615.95	39°34'32.3279"N	80°13'46.1948"W	14323.25	334.281	0.66
22978.00	91.720	322.810	7782.20	14192.17	12979.56	-6273.54	1762818.41	392691.18	39°34'33.0667"N	80°13'46.9425"W	14416.18	334.204	0.86
23073.00	91.940	322.410	7779.16	14287.09	13055.00	-6331.20	1762760.76	392766.62	39°34'33.8076"N	80°13'47.6867"W	14509.21	334.128	0.48
23167.00	91.230	322.930	7776.56	14381.03	13129.72	-6388.18	1762703.78	392841.33	39°34'34.5415"N	80°13'48.4221"W	14601.31	334.055	0.94
23262.00	91.940	322.120	7773.93	14475.95	13205.08	-6445.96	1762646.01	392916.69	39°34'35.2816"N	80°13'49.1678"W	14694.37	333.981	1.13
23356.00	91.420	322.230	7771.18	14569.86	13279.30	-6503.58	1762588.39	392990.90	39°34'36.0105"N	80°13'49.9113"W	14786.35	333.907	0.57
23450.00	90.090	323.210	7769.94	14663.82	13354.08	-6560.51	1762531.47	393065.68	39°34'36.7450"N	80°13'50.6461"W	14878.57	333.836	1.76
23544.00	91.140	323.370	7768.93	14757.81	13429.43	-6616.69	1762475.29	393141.03	39°34'37.4851"N	80°13'51.3715"W	14970.98	333.770	1.13
23639.00	91.170	324.460	7767.02	14852.79	13506.19	-6672.63	1762419.35	393217.78	39°34'38.2392"N	80°13'52.0939"W	15064.57	333.709	1.15
23734.00	90.400	323.710	7765.71	14947.78	13583.12	-6728.35	1762363.63	393294.71	39°34'38.9950"N	80°13'52.8135"W	15158.23	333.649	1.13
23829.00	90.990	324.250	7764.56	15042.77	13659.95	-6784.22	1762307.77	393371.53	39°34'39.7498"N	80°13'53.5349"W	15251.88	333.589	0.84
23924.00	91.230	324.670	7762.72	15137.75	13737.24	-6839.43	1762252.57	393448.81	39°34'40.5092"N	80°13'54.2480"W	15345.67	333.532	0.51
24019.00	90.950	324.780	7760.91	15232.72	13814.78	-6894.28	1762197.72	393526.35	39°34'41.2711"N	80°13'54.9566"W	15439.54	333.478	0.32
24054.00	91.140	324.460	7760.28	15267.72	13843.32	-6914.54	1762177.46	393554.88	39°34'41.5514"N	80°13'55.2183"W	15474.12	333.459	1.06
24079.00†	91.140	324.460	7759.78	15292.71	13863.65	-6929.07	1762162.93	393575.22	39°34'41.7513"N	80°13'55.4060"W	15498.80	333.444	0.00

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Actual Wellpath Report

Upton 9H AWP PROJ: 24079'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 9H
Field	Marion	UWI	47049025990000
Facility	Upton Pad	Wellbore	Upton 9H AWB
Slot	9H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Upton 9H BHL rev1	7897.00	13870.25	-6921.74	1762170.26	393581.82	39°34'41.8170"N	80°13'55.3130"W	point
Upton 9H LP rev1	7897.00	1658.03	1922.67	1771014.13	381370.33	39°32'41.8234"N	80°12'1.1450"W	point

WELLPATH COMPOSITION - Ref Wellbore: Upton 9H AWB Ref Wellpath: Upton 9H AWP PROJ: 24079'

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 9H AWB	2025-12-03
735.00	7749.00	OWSG MWD rev2 + HRGM	2 Imported AEP MWD HRGM 884' - 7749'	Upton 9H AWB	2025-12-03
7749.00	24079.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH ATC Short spacing HDGM 8.5" 7824' - 24054'	Upton 9H AWB	2025-12-26

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