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NORTHEAST NATURAL ENERGY, LLC



Area: Marion County, WV
Field: Marion
Facility: Upton Pad
Slot: 5H-A

Well: Upton 5H-A ST01
UWI: 47049025980100
Wellbore: Upton 5H-A ST01 AWP
Wellpath: Upton 5H-A ST01 AWP PROJ: 23468'

Plot reference wellpath is Upton 5H-A ST01 AWP PROJ: 23468'
True vertical depths are referenced to Patterson 571 (KB)
Reference wellpath measured depths are referenced to Patterson 571 (KB)
Patterson 571 (KB) to Mean Sea Level: 1391 feet
Mean Sea Level to Mud line (At Slot: 5H-A): -1366 feet
Offset wellpath MDs are referenced to each path's default MD datum
Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Reference: Grid north
Scale: True distance
Coordinates are in feet referenced to Slot
Depths are in feet
Created by: tranlam on 2026-01-28; Database: WA_MPL_EASTERNUS_Defn

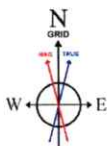
Location Information

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
5H-A	0.00	0.00	1769090.850	379732.390	39°32'25.4861N	80°12'25.5324W
Patterson 571 (KB) to Mud line (At Slot: 5H-A)					25ft	
Mean Sea Level to Mud line (At Slot: 5H-A)					-1366ft	
Patterson 571 (KB) to Mean Sea Level					1391ft	

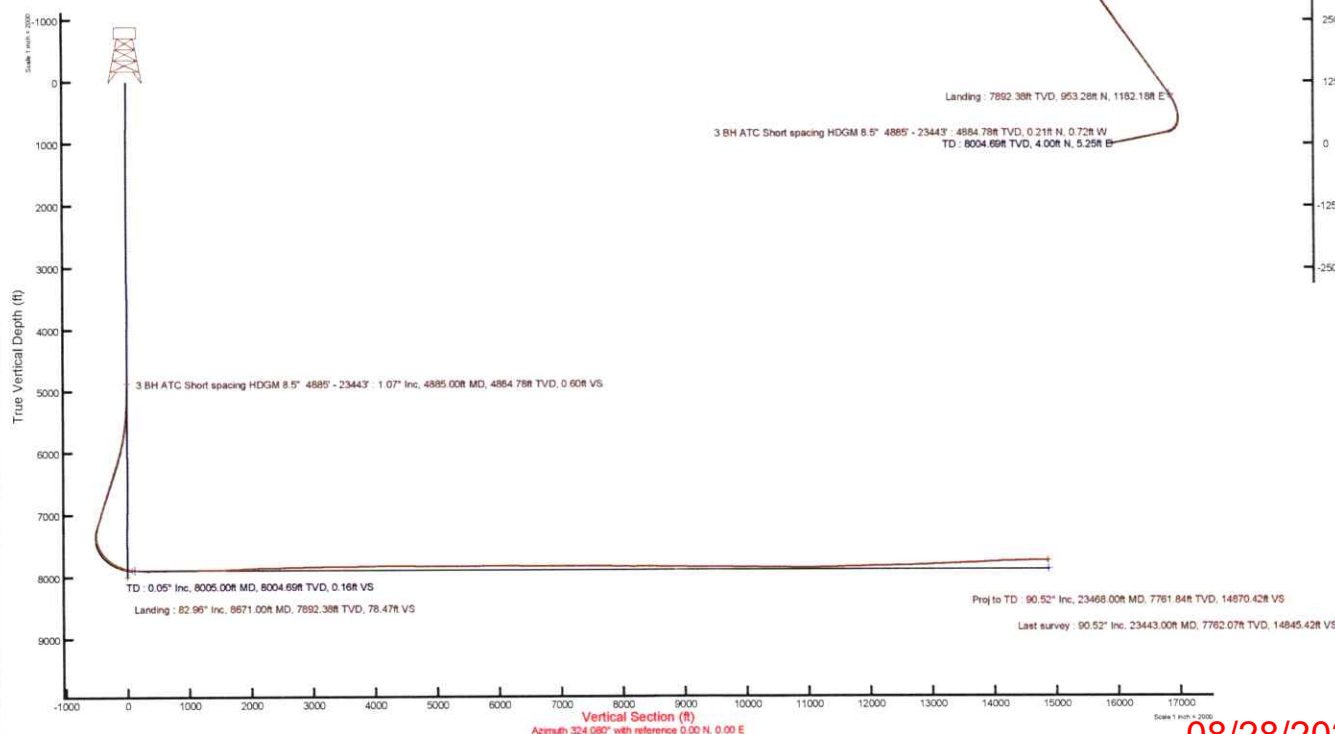
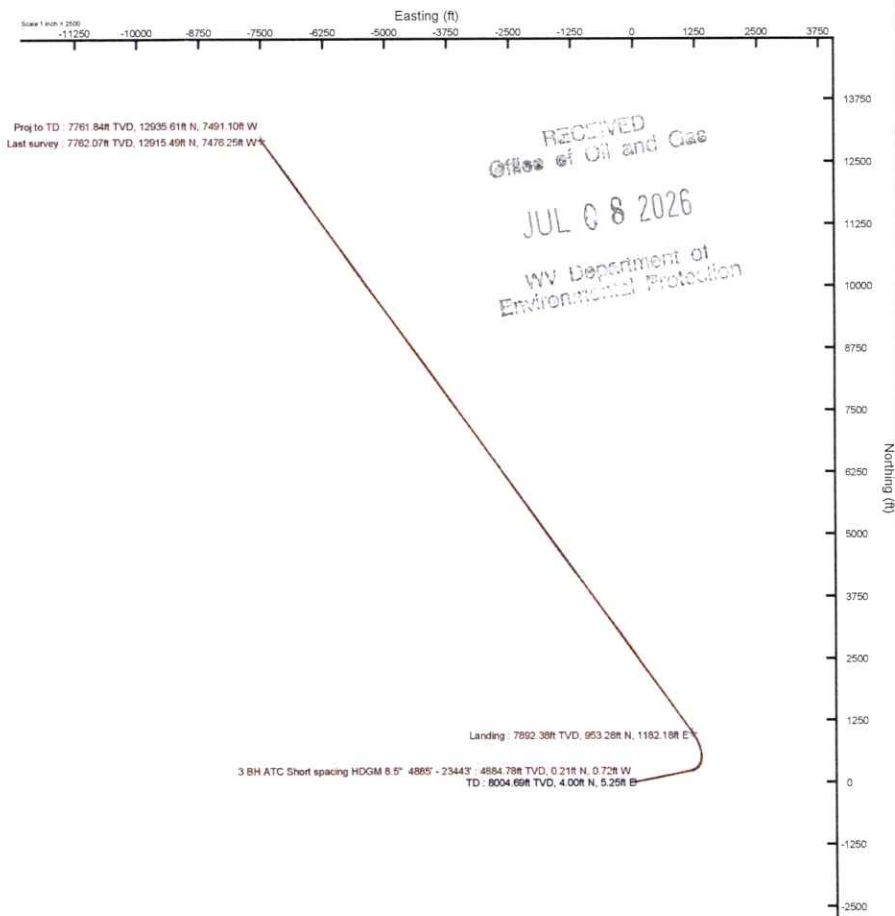
Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
23468.00	90.520	323.570	7761.84	12935.61	-7491.10	1761600.20	392667.22	39°34'32.7318"N	80°14'2.4982"W

API: 47049025980100
BH JOB: 112880582
DURATION: 1/3/2026 - 1/11/2026
RIG: Patterson 571



HDGM2025v1.0 (1900.0 to 2026.0) Dip: 65.94° Field: 51446.9 nT
Magnetic North is 9.17 degrees West of True North (at 2025-12-31)
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



08/28/2026



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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 5H-A ST01
Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

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 2026-01-28 at 2:38:28 PM
Scale	0.999942	Last Updated	2026-01-28
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	0.00	0.00	1769090.85	379732.39	39°32'25.4861"N	80°12'25.5324"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 (5H-A)	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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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'

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Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH DATA (255 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	15.610	0.00	0.00	0.00	0.00	1769090.85	379732.39	39°32'25.4861"N	80°12'25.5324"W	0.00	0.000	0.00
25.00	0.000	15.610	25.00	0.00	0.00	0.00	1769090.85	379732.39	39°32'25.4861"N	80°12'25.5324"W	0.00	0.000	0.00
50.00	0.210	15.610	50.00	0.03	0.04	0.01	1769090.86	379732.43	39°32'25.4865"N	80°12'25.5322"W	0.05	15.610	0.84
100.00	0.230	12.850	100.00	0.15	0.23	0.06	1769090.91	379732.62	39°32'25.4884"N	80°12'25.5317"W	0.24	14.445	0.05
150.00	0.500	3.790	150.00	0.39	0.55	0.10	1769090.95	379732.94	39°32'25.4915"N	80°12'25.5312"W	0.55	9.981	0.55
200.00	0.230	31.670	200.00	0.59	0.85	0.16	1769091.01	379733.24	39°32'25.4945"N	80°12'25.5304"W	0.86	10.880	0.63
250.00	0.150	48.650	250.00	0.64	0.98	0.26	1769091.11	379733.37	39°32'25.4958"N	80°12'25.5291"W	1.01	15.167	0.19
300.00	0.100	211.630	300.00	0.63	0.98	0.29	1769091.14	379733.37	39°32'25.4958"N	80°12'25.5288"W	1.03	16.493	0.49
350.00	0.090	116.530	350.00	0.57	0.93	0.30	1769091.15	379733.32	39°32'25.4953"N	80°12'25.5286"W	0.98	18.093	0.28
400.00	0.070	175.990	400.00	0.51	0.88	0.34	1769091.19	379733.27	39°32'25.4948"N	80°12'25.5281"W	0.94	21.148	0.16
450.00	0.090	57.570	450.00	0.49	0.87	0.38	1769091.23	379733.26	39°32'25.4947"N	80°12'25.5277"W	0.95	23.340	0.28
500.00	0.200	2.330	500.00	0.55	0.98	0.41	1769091.26	379733.37	39°32'25.4958"N	80°12'25.5272"W	1.06	22.844	0.33
550.00	0.160	217.060	550.00	0.60	1.01	0.37	1769091.22	379733.40	39°32'25.4961"N	80°12'25.5277"W	1.08	20.307	0.69
600.00	0.340	99.240	600.00	0.47	0.93	0.48	1769091.33	379733.32	39°32'25.4953"N	80°12'25.5264"W	1.05	27.187	0.88
650.00	0.180	58.140	650.00	0.36	0.95	0.69	1769091.54	379733.34	39°32'25.4955"N	80°12'25.5237"W	1.17	36.078	0.47
941.00	1.210	93.830	940.97	-1.63	0.99	4.15	1769095.00	379733.38	39°32'25.4962"N	80°12'25.4796"W	4.26	76.630	0.37
1037.00	1.200	100.840	1036.95	-3.01	0.73	6.14	1769096.99	379733.12	39°32'25.4938"N	80°12'25.4540"W	6.19	83.237	0.15
1131.00	1.130	119.840	1130.93	-4.58	0.08	7.92	1769098.76	379732.47	39°32'25.4875"N	80°12'25.4314"W	7.92	89.404	0.42
1226.00	0.120	178.110	1225.92	-5.51	-0.48	8.73	1769099.58	379731.91	39°32'25.4820"N	80°12'25.4209"W	8.74	93.168	1.13
1320.00	0.640	254.060	1319.92	-5.42	-0.73	8.23	1769099.08	379731.66	39°32'25.4796"N	80°12'25.4273"W	8.26	95.040	0.66
1415.00	0.350	230.760	1414.92	-5.25	-1.06	7.49	1769098.34	379731.33	39°32'25.4762"N	80°12'25.4366"W	7.57	98.014	0.37
1509.00	0.280	230.620	1508.92	-5.28	-1.38	7.09	1769097.94	379731.01	39°32'25.4730"N	80°12'25.4417"W	7.23	101.026	0.07
1604.00	0.450	256.800	1603.92	-5.15	-1.61	6.55	1769097.40	379730.78	39°32'25.4706"N	80°12'25.4486"W	6.75	103.846	0.25
1700.00	0.460	277.150	1699.91	-4.74	-1.65	5.80	1769096.65	379730.74	39°32'25.4702"N	80°12'25.4582"W	6.03	105.901	0.17
1794.00	0.330	239.920	1793.91	-4.46	-1.74	5.19	1769096.04	379730.65	39°32'25.4693"N	80°12'25.4659"W	5.48	108.538	0.30
1888.00	0.300	250.590	1887.91	-4.36	-1.96	4.73	1769095.58	379730.43	39°32'25.4671"N	80°12'25.4719"W	5.12	112.510	0.07
1983.00	0.340	262.780	1982.91	-4.15	-2.08	4.21	1769095.06	379730.31	39°32'25.4659"N	80°12'25.4784"W	4.70	116.244	0.08
2078.00	0.540	237.170	2077.90	-3.99	-2.36	3.56	1769094.41	379730.03	39°32'25.4631"N	80°12'25.4867"W	4.27	123.508	0.29
2173.00	0.440	246.640	2172.90	-3.89	-2.74	2.85	1769093.70	379729.65	39°32'25.4592"N	80°12'25.4958"W	3.95	133.936	0.14

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WELLPATH DATA (255 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]
2200.00	0.650	242.820	2199.90	-3.85	-2.85	2.62	1769093.46	379729.54	39°32'25.4581"N	80°12'25.4987"W	3.87	137.499	0.79

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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'

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Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH DATA (255 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]
2356.00	0.410	256.720	2355.89	-3.50	-3.39	1.28	1769092.13	379729.00	39°32'25.4527"N	80°12'25.5157"W	3.62	159.224	0.17
2426.00	0.440	292.240	2425.89	-3.17	-3.34	0.79	1769091.64	379729.05	39°32'25.4531"N	80°12'25.5219"W	3.43	166.665	0.37
2521.00	0.600	280.590	2520.89	-2.50	-3.11	-0.03	1769090.82	379729.28	39°32'25.4553"N	80°12'25.5325"W	3.11	180.634	0.20
2615.00	0.540	252.160	2614.88	-2.01	-3.16	-0.94	1769089.91	379729.23	39°32'25.4548"N	80°12'25.5441"W	3.29	196.575	0.30
2710.00	0.370	233.450	2709.88	-1.87	-3.48	-1.61	1769089.24	379728.91	39°32'25.4516"N	80°12'25.5526"W	3.83	204.875	0.24
2804.00	0.280	255.700	2803.88	-1.79	-3.72	-2.08	1769088.77	379728.68	39°32'25.4492"N	80°12'25.5586"W	4.26	209.230	0.16
2898.00	0.330	259.170	2897.88	-1.59	-3.82	-2.57	1769088.28	379728.57	39°32'25.4481"N	80°12'25.5648"W	4.60	213.885	0.06
2993.00	0.220	241.340	2992.88	-1.45	-3.96	-3.00	1769087.85	379728.43	39°32'25.4467"N	80°12'25.5702"W	4.97	217.099	0.15
3087.00	0.270	284.230	3086.88	-1.26	-3.99	-3.37	1769087.48	379728.40	39°32'25.4464"N	80°12'25.5750"W	5.22	220.151	0.20
3183.00	0.840	11.090	3182.87	-0.60	-3.25	-3.45	1769087.40	379729.14	39°32'25.4537"N	80°12'25.5761"W	4.74	226.756	0.90
3282.00	0.810	358.390	3281.86	0.47	-1.84	-3.33	1769087.52	379730.55	39°32'25.4677"N	80°12'25.5747"W	3.81	241.154	0.19
3377.00	0.910	351.760	3376.85	1.69	-0.42	-3.46	1769087.39	379731.97	39°32'25.4817"N	80°12'25.5765"W	3.49	263.111	0.15
3472.00	0.820	359.070	3471.84	2.92	1.01	-3.58	1769087.27	379733.40	39°32'25.4958"N	80°12'25.5782"W	3.72	285.733	0.15
3566.00	0.820	3.340	3565.83	3.99	2.35	-3.55	1769087.30	379734.74	39°32'25.5091"N	80°12'25.5780"W	4.26	303.522	0.06
3661.00	0.920	9.320	3660.82	5.05	3.78	-3.39	1769087.46	379736.17	39°32'25.5232"N	80°12'25.5760"W	5.08	318.159	0.14
3756.00	0.620	59.030	3755.81	5.54	4.80	-2.82	1769088.03	379737.19	39°32'25.5333"N	80°12'25.5689"W	5.57	329.538	0.74
3851.00	0.780	151.970	3850.81	4.86	4.49	-2.08	1769088.77	379736.88	39°32'25.5303"N	80°12'25.5594"W	4.95	335.176	1.07
3946.00	0.760	167.210	3945.80	3.64	3.31	-1.64	1769089.21	379735.70	39°32'25.5187"N	80°12'25.5536"W	3.69	333.698	0.22
4040.00	0.430	166.680	4039.79	2.74	2.36	-1.42	1769089.43	379734.75	39°32'25.5093"N	80°12'25.5507"W	2.75	329.009	0.35
4135.00	0.420	148.720	4134.79	2.06	1.71	-1.15	1769089.70	379734.10	39°32'25.5029"N	80°12'25.5473"W	2.07	326.054	0.14
4230.00	0.230	143.000	4229.79	1.53	1.26	-0.86	1769089.99	379733.65	39°32'25.4985"N	80°12'25.5435"W	1.53	325.828	0.20
4325.00	0.170	153.430	4324.79	1.20	0.99	-0.68	1769090.17	379733.38	39°32'25.4958"N	80°12'25.5412"W	1.20	325.386	0.07
4419.00	0.150	174.720	4418.79	0.95	0.74	-0.61	1769090.24	379733.13	39°32'25.4933"N	80°12'25.5402"W	0.96	320.594	0.07
4514.00	0.080	225.470	4513.79	0.84	0.57	-0.64	1769090.21	379732.96	39°32'25.4917"N	80°12'25.5406"W	0.86	311.477	0.12
4608.00	0.230	279.490	4607.79	0.96	0.55	-0.88	1769089.97	379732.94	39°32'25.4915"N	80°12'25.5436"W	1.04	302.281	0.21
4703.00	0.270	242.930	4702.79	1.13	0.48	-1.26	1769089.59	379732.87	39°32'25.4908"N	80°12'25.5486"W	1.35	290.911	0.17
4800.00	0.110	197.170	4799.79	1.11	0.29	-1.49	1769089.36	379732.68	39°32'25.4888"N	80°12'25.5515"W	1.52	280.967	0.22
4885.00	1.070	89.970	4884.78	0.60	0.21	-0.72	1769090.13	379732.60	39°32'25.4881"N	80°12'25.5417"W	0.75	286.313	1.30
4980.00	5.330	78.400	4979.61	-1.74	1.10	4.49	1769095.34	379733.49	39°32'25.4973"N	80°12'25.4752"W	4.62	76.228	4.51

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WELLPATH DATA (255 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]
5074.00	6.010	77.370	5073.15	-5.49	3.05	13.57	1769104.42	379735.44	39°32'25.5173"N	80°12'25.3595"W	13.91	77.314	0.73

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WELLPATH DATA (255 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]
5169.00	5.520	79.000	5167.67	-9.38	5.01	22.90	1769113.75	379737.40	39°32'25.5374"N	80°12'25.2405"W	23.45	77.654	0.54
5264.00	5.580	78.080	5262.23	-13.18	6.84	31.91	1769122.76	379739.23	39°32'25.5562"N	80°12'25.1258"W	32.63	77.903	0.11
5358.00	8.760	78.330	5355.48	-17.98	9.23	43.39	1769134.24	379741.62	39°32'25.5807"N	80°12'24.9794"W	44.36	77.990	3.38
5453.00	11.450	77.950	5449.00	-24.77	12.66	59.70	1769150.55	379745.05	39°32'25.6159"N	80°12'24.7716"W	61.03	78.024	2.83
5549.00	14.370	79.410	5542.56	-33.72	16.84	80.74	1769171.58	379749.23	39°32'25.6588"N	80°12'24.5036"W	82.47	78.216	3.06
5644.00	15.410	78.800	5634.37	-44.05	21.46	104.71	1769195.55	379753.85	39°32'25.7063"N	80°12'24.1981"W	106.88	78.417	1.11
5738.00	19.290	79.870	5724.07	-56.03	26.62	132.25	1769223.09	379759.01	39°32'25.7595"N	80°12'23.8470"W	134.90	78.619	4.14
5833.00	22.320	80.840	5812.87	-70.98	32.25	165.52	1769256.36	379764.64	39°32'25.8177"N	80°12'23.4230"W	168.63	78.973	3.21
5928.00	25.410	81.220	5899.74	-88.41	38.24	203.48	1769294.32	379770.63	39°32'25.8798"N	80°12'22.9390"W	207.04	79.357	3.26
6022.00	28.730	81.240	5983.43	-107.92	44.76	245.75	1769336.58	379777.15	39°32'25.9475"N	80°12'22.4001"W	249.79	79.678	3.53
6117.00	31.310	80.880	6065.68	-129.48	52.15	292.70	1769383.53	379784.54	39°32'26.0242"N	80°12'21.8016"W	297.31	79.898	2.72
6212.00	34.320	79.620	6145.51	-152.16	60.89	343.42	1769434.25	379793.28	39°32'26.1145"N	80°12'21.1550"W	348.78	79.946	3.25
6306.00	37.360	78.960	6221.70	-175.59	71.13	397.49	1769488.32	379803.51	39°32'26.2199"N	80°12'20.4659"W	403.81	79.855	3.26
6400.00	37.300	79.040	6296.45	-199.61	82.00	453.45	1769544.27	379814.39	39°32'26.3318"N	80°12'19.7527"W	460.80	79.749	0.08
6495.00	37.610	78.990	6371.86	-223.96	93.01	510.16	1769600.98	379825.40	39°32'26.4450"N	80°12'19.0299"W	518.57	79.667	0.33
6589.00	37.460	77.800	6446.40	-247.55	104.53	566.26	1769657.08	379836.92	39°32'26.5631"N	80°12'18.3151"W	575.83	79.541	0.79
6684.00	37.440	78.040	6521.82	-270.89	116.62	622.75	1769713.56	379849.00	39°32'26.6870"N	80°12'17.5953"W	633.57	79.393	0.16
6778.00	37.690	77.920	6596.33	-294.11	128.56	678.80	1769769.61	379860.94	39°32'26.8093"N	80°12'16.8810"W	690.87	79.276	0.28
6873.00	37.280	78.280	6671.71	-317.64	140.48	735.37	1769826.17	379872.86	39°32'26.9315"N	80°12'16.1601"W	748.67	79.185	0.49
6967.00	37.210	78.350	6746.54	-341.00	152.00	791.08	1769881.88	379884.38	39°32'27.0497"N	80°12'15.4502"W	805.55	79.124	0.09
7063.00	36.260	77.810	6823.48	-364.35	163.86	847.26	1769938.06	379896.24	39°32'27.1712"N	80°12'14.7343"W	862.96	79.054	1.05
7157.00	36.830	78.100	6899.00	-387.01	175.54	902.00	1769992.80	379907.92	39°32'27.2909"N	80°12'14.0367"W	918.92	78.987	0.63
7252.00	37.400	77.270	6974.75	-409.96	187.77	958.00	1770048.80	379920.14	39°32'27.4161"N	80°12'13.3231"W	976.23	78.911	0.80
7347.00	37.410	77.090	7050.22	-432.60	200.57	1014.27	1770105.06	379932.95	39°32'27.5470"N	80°12'12.6062"W	1033.91	78.814	0.12
7441.00	37.460	76.860	7124.86	-454.83	213.45	1069.94	1770160.73	379945.82	39°32'27.6786"N	80°12'11.8969"W	1091.03	78.718	0.16
7535.00	36.380	76.920	7200.01	-476.72	226.26	1124.94	1770215.72	379958.63	39°32'27.8094"N	80°12'11.1962"W	1147.46	78.628	1.15
7630.00	34.630	66.800	7277.41	-493.61	243.28	1177.24	1770268.02	379975.66	39°32'27.9817"N	80°12'10.5303"W	1202.11	78.324	6.45
7725.00	36.000	51.380	7355.08	-498.25	271.40	1223.96	1770314.74	380003.77	39°32'28.2632"N	80°12'9.9368"W	1253.69	77.498	9.47
7820.00	37.490	38.690	7431.31	-489.25	311.45	1263.90	1770354.68	380043.82	39°32'28.6621"N	80°12'9.4309"W	1301.71	76.157	8.13

23468

WELLPATH DATA (255 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]
7915.00	38.500	27.020	7506.28	-468.10	360.42	1295.45	1770386.22	380092.79	39°32'29.1485"N	80°12'9.0331"W	1344.66	74.452	7.63

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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 5H-A ST01
Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH DATA (255 stations)

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8010.00	44.360	16.950	7577.55	-434.53	418.65	1318.61	1770409.38	380151.01	39°32'29.7258"N	80°12'8.7433"W	1383.48	72.386	9.33
8104.00	47.680	2.810	7642.99	-387.45	484.98	1329.93	1770420.70	380217.35	39°32'30.3822"N	80°12'8.6055"W	1415.60	69.965	11.37
8199.00	50.780	355.030	7705.07	-328.43	556.81	1328.46	1770419.23	380289.16	39°32'31.0919"N	80°12'8.6314"W	1440.43	67.260	7.00
8294.00	55.760	347.580	7761.92	-260.75	631.93	1316.81	1770407.58	380364.28	39°32'31.8334"N	80°12'8.7876"W	1460.59	64.364	8.18
8387.00	62.730	341.550	7809.48	-185.93	708.83	1295.42	1770386.19	380441.17	39°32'32.5917"N	80°12'9.0683"W	1476.67	61.313	9.33
8482.00	69.310	337.580	7848.08	-102.33	790.07	1265.07	1770355.84	380522.41	39°32'33.3923"N	80°12'9.4638"W	1491.51	58.014	7.91
8577.00	76.740	333.570	7875.81	-13.36	872.70	1227.47	1770318.25	380605.03	39°32'34.2060"N	80°12'9.9519"W	1506.09	54.588	8.80
8671.00	82.960	327.810	7892.38	78.47	953.28	1182.18	1770272.96	380685.61	39°32'34.9989"N	80°12'10.5381"W	1518.65	51.118	8.95
8765.00	85.560	324.070	7901.78	171.92	1030.74	1129.81	1770220.59	380763.07	39°32'35.7603"N	80°12'11.2144"W	1529.34	47.625	4.83
8860.00	87.480	324.060	7907.55	266.75	1107.52	1074.16	1770164.95	380839.84	39°32'36.5148"N	80°12'11.9324"W	1542.86	44.124	2.02
8954.00	90.920	324.780	7908.86	360.72	1183.95	1019.48	1770110.27	380916.27	39°32'37.2659"N	80°12'12.6380"W	1562.39	40.731	3.74
9049.00	90.310	324.280	7907.84	455.71	1261.31	964.36	1770055.15	380993.63	39°32'38.0262"N	80°12'13.3493"W	1587.73	37.400	0.83
9142.00	90.740	324.270	7906.99	548.71	1336.81	910.06	1770000.86	381069.12	39°32'38.7681"N	80°12'14.0500"W	1617.18	34.246	0.46
9238.00	90.920	324.220	7905.60	644.70	1414.71	853.97	1769944.77	381147.01	39°32'39.5336"N	80°12'14.7738"W	1652.47	31.117	0.19
9332.00	91.080	324.640	7903.96	738.68	1491.16	799.30	1769890.10	381223.46	39°32'40.2849"N	80°12'15.4793"W	1691.87	28.193	0.48
9427.00	90.980	324.130	7902.25	833.66	1568.37	743.99	1769834.79	381300.67	39°32'41.0438"N	80°12'16.1931"W	1735.89	25.378	0.55
9521.00	90.830	324.370	7900.77	927.65	1644.65	689.07	1769779.88	381376.94	39°32'41.7934"N	80°12'16.9017"W	1783.17	22.733	0.30
9615.00	90.580	324.410	7899.61	1021.64	1721.07	634.35	1769725.16	381453.35	39°32'42.5443"N	80°12'17.6079"W	1834.25	20.233	0.27
9710.00	90.370	324.320	7898.82	1116.64	1798.27	579.00	1769669.81	381530.56	39°32'43.3031"N	80°12'18.3222"W	1889.19	17.847	0.24
9806.00	90.680	324.320	7897.94	1212.63	1876.25	523.01	1769613.83	381608.53	39°32'44.0693"N	80°12'19.0447"W	1947.78	15.576	0.32
9900.00	91.110	324.690	7896.48	1306.62	1952.77	468.44	1769559.26	381685.05	39°32'44.8214"N	80°12'19.7490"W	2008.17	13.489	0.60
9995.00	90.920	324.680	7894.79	1401.60	2030.28	413.53	1769504.35	381762.55	39°32'45.5831"N	80°12'20.4577"W	2071.97	11.513	0.20
10090.00	90.090	324.120	7893.96	1496.59	2107.52	358.23	1769449.06	381839.78	39°32'46.3421"N	80°12'21.1713"W	2137.75	9.647	1.05
10185.00	92.250	324.280	7892.02	1591.56	2184.55	302.67	1769393.50	381916.81	39°32'47.0991"N	80°12'21.8882"W	2205.42	7.888	2.28
10280.00	92.220	324.530	7888.31	1686.49	2261.74	247.42	1769338.26	381994.00	39°32'47.8577"N	80°12'22.6013"W	2275.23	6.243	0.26
10374.00	92.960	324.090	7884.06	1780.39	2338.01	192.64	1769283.48	382070.26	39°32'48.6071"N	80°12'23.3082"W	2345.93	4.710	0.92
10468.00	93.020	324.600	7879.16	1874.26	2414.28	137.92	1769228.76	382146.53	39°32'49.3567"N	80°12'24.0144"W	2418.22	3.270	0.55
10563.00	92.860	324.540	7874.29	1969.14	2491.59	82.92	1769173.76	382223.83	39°32'50.1164"N	80°12'24.7242"W	2492.97	1.906	0.18
10657.00	91.820	324.820	7870.45	2063.05	2568.22	28.62	1769119.47	382300.46	39°32'50.8695"N	80°12'25.4251"W	2568.38	0.638	1.15

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WELLPATH DATA (255 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]
10752.00	91.140	324.570	7868.00	2158.01	2645.72	-26.26	1769064.59	382377.95	39°32'51.6312"N	80°12'26.1335"W	2645.85	359.431	0.76

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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 5H-A ST01
Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH DATA (255 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]
10847.00	90.950	324.480	7866.26	2252.99	2723.08	-81.39	1769009.47	382455.30	39°32'52.3914"N	80°12'26.8450"W	2724.29	358.288	0.22
10942.00	90.800	324.480	7864.81	2347.98	2800.39	-136.58	1768954.28	382532.61	39°32'53.1511"N	80°12'27.5572"W	2803.72	357.208	0.16
11037.00	91.140	324.380	7863.20	2442.97	2877.65	-191.83	1768899.03	382609.87	39°32'53.9104"N	80°12'28.2703"W	2884.04	356.186	0.37
11132.00	92.710	324.010	7860.01	2537.91	2954.65	-247.37	1768843.49	382686.86	39°32'54.6670"N	80°12'28.9871"W	2964.99	355.214	1.70
11227.00	92.460	323.410	7855.73	2632.81	3031.15	-303.54	1768787.32	382763.35	39°32'55.4187"N	80°12'29.7119"W	3046.31	354.281	0.68
11321.00	90.250	322.970	7853.51	2726.77	3106.38	-359.85	1768731.03	382838.58	39°32'56.1578"N	80°12'30.4382"W	3127.15	353.392	2.40
11416.00	90.770	323.190	7852.66	2821.75	3182.33	-416.91	1768673.97	382914.52	39°32'56.9039"N	80°12'31.1743"W	3209.52	352.536	0.59
11511.00	91.170	323.110	7851.05	2916.72	3258.33	-473.87	1768617.00	382990.53	39°32'57.6506"N	80°12'31.9091"W	3292.61	351.725	0.43
11606.00	90.370	323.390	7849.78	3011.70	3334.45	-530.71	1768560.17	383066.64	39°32'58.3984"N	80°12'32.6423"W	3376.42	350.957	0.89
11700.00	90.430	323.290	7849.12	3105.69	3409.85	-586.83	1768504.05	383142.04	39°32'59.1392"N	80°12'33.3664"W	3459.98	350.235	0.12
11795.00	90.490	323.110	7848.36	3200.68	3485.92	-643.74	1768447.15	383218.10	39°32'59.8865"N	80°12'34.1005"W	3544.86	349.537	0.20
11890.00	90.430	323.260	7847.59	3295.66	3561.97	-700.66	1768390.23	383294.14	39°33'0.6337"N	80°12'34.8349"W	3630.23	348.872	0.17
11985.00	90.520	323.110	7846.81	3390.65	3638.02	-757.59	1768333.31	383370.19	39°33'1.3809"N	80°12'35.5692"W	3716.06	348.237	0.18
12079.00	90.280	323.310	7846.15	3484.63	3713.30	-813.88	1768277.02	383445.46	39°33'2.1204"N	80°12'36.2955"W	3801.45	347.637	0.33
12174.00	90.770	323.700	7845.28	3579.62	3789.67	-870.38	1768220.52	383521.83	39°33'2.8707"N	80°12'37.0245"W	3888.33	347.065	0.66
12269.00	91.420	323.670	7843.46	3674.60	3866.20	-926.63	1768164.27	383598.36	39°33'3.6227"N	80°12'37.7503"W	3975.69	346.522	0.68
12364.00	91.320	323.390	7841.19	3769.57	3942.57	-983.08	1768107.83	383674.73	39°33'4.3731"N	80°12'38.4787"W	4063.29	345.999	0.31
12459.00	91.230	323.680	7839.08	3864.54	4018.96	-1039.53	1768051.38	383751.10	39°33'5.1235"N	80°12'39.2070"W	4151.22	345.498	0.32
12553.00	91.200	323.400	7837.09	3958.52	4094.54	-1095.38	1767995.54	383826.68	39°33'5.8661"N	80°12'39.9276"W	4238.53	345.023	0.30
12647.00	91.820	323.370	7834.61	4052.48	4169.96	-1151.42	1767939.49	383902.10	39°33'6.6071"N	80°12'40.6507"W	4326.01	344.564	0.66
12742.00	89.200	321.100	7833.76	4147.41	4245.05	-1209.59	1767881.33	383977.18	39°33'7.3446"N	80°12'41.4009"W	4414.02	344.096	3.65
12836.00	90.250	323.290	7834.21	4241.35	4319.31	-1267.21	1767823.72	384051.44	39°33'8.0741"N	80°12'42.1439"W	4501.36	343.649	2.58
12932.00	89.940	323.340	7834.06	4337.34	4396.30	-1324.56	1767766.37	384128.42	39°33'8.8304"N	80°12'42.8839"W	4591.50	343.233	0.33
13026.00	90.400	323.560	7833.78	4431.34	4471.81	-1380.54	1767710.39	384203.93	39°33'9.5723"N	80°12'43.6061"W	4680.06	342.843	0.54
13121.00	89.510	324.320	7833.85	4526.34	4548.61	-1436.46	1767654.48	384280.72	39°33'10.3269"N	80°12'44.3278"W	4770.04	342.474	1.23
13215.00	88.920	324.100	7835.14	4620.33	4624.85	-1491.43	1767599.51	384356.96	39°33'11.0760"N	80°12'45.0373"W	4859.38	342.126	0.67
13310.00	89.910	324.320	7836.11	4715.32	4701.91	-1546.98	1767543.96	384434.01	39°33'11.8332"N	80°12'45.7543"W	4949.85	341.788	1.07
13404.00	89.660	324.750	7836.46	4809.32	4778.46	-1601.52	1767489.43	384510.57	39°33'12.5856"N	80°12'46.4583"W	5039.70	341.471	0.53
13500.00	88.580	324.130	7837.94	4905.30	4856.55	-1657.34	1767433.61	384588.65	39°33'13.3529"N	80°12'47.1789"W	5131.56	341.157	1.30

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WELLPATH DATA (255 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]
13595.00	89.320	324.030	7839.68	5000.28	4933.47	-1713.06	1767377.89	384665.57	39°33'14.1087"N	80°12'47.8980"W	5222.43	340.851	0.79

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Upton 5H-A ST01 AWP PROJ: 23468'

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13690.00	90.310	324.600	7839.98	5095.28	5010.63	-1768.48	1767322.48	384742.72	39°33'14.8669"N	80°12'48.6133"W	5313.56	340.560	1.20
13785.00	90.090	324.210	7839.65	5190.28	5087.88	-1823.77	1767267.19	384819.97	39°33'15.6260"N	80°12'49.3271"W	5404.88	340.280	0.47
13880.00	90.060	324.310	7839.53	5285.28	5164.99	-1879.26	1767211.70	384897.07	39°33'16.3837"N	80°12'50.0433"W	5496.25	340.006	0.11
13973.00	90.460	324.040	7839.11	5378.28	5240.39	-1933.70	1767157.27	384972.47	39°33'17.1246"N	80°12'50.7459"W	5585.78	339.746	0.52
14068.00	90.340	324.580	7838.44	5473.27	5317.55	-1989.12	1767101.85	385049.62	39°33'17.8828"N	80°12'51.4613"W	5677.40	339.491	0.58
14163.00	91.380	324.740	7837.02	5568.26	5395.03	-2044.06	1767046.91	385127.10	39°33'18.6442"N	80°12'52.1706"W	5769.28	339.249	1.11
14258.00	90.310	324.040	7835.62	5663.24	5472.26	-2099.37	1766991.61	385204.32	39°33'19.4031"N	80°12'52.8846"W	5861.14	339.011	1.35
14352.00	90.770	324.460	7834.73	5757.24	5548.54	-2154.28	1766936.69	385280.60	39°33'20.1527"N	80°12'53.5934"W	5952.08	338.781	0.66
14448.00	90.400	324.160	7833.75	5853.23	5626.51	-2210.29	1766880.69	385358.56	39°33'20.9188"N	80°12'54.3163"W	6045.08	338.553	0.50
14542.00	90.430	324.480	7833.07	5947.23	5702.86	-2265.11	1766825.87	385434.91	39°33'21.6690"N	80°12'55.0240"W	6136.23	338.338	0.34
14636.00	90.090	324.050	7832.64	6041.23	5779.16	-2320.01	1766770.98	385511.21	39°33'22.4188"N	80°12'55.7327"W	6227.45	338.127	0.58
14730.00	89.010	324.350	7833.38	6135.22	5855.40	-2375.00	1766716.00	385587.44	39°33'23.1679"N	80°12'56.4424"W	6318.73	337.922	1.19
14825.00	90.060	324.790	7834.15	6230.21	5932.80	-2430.06	1766660.93	385664.84	39°33'23.9285"N	80°12'57.1534"W	6411.19	337.726	1.20
14920.00	88.370	324.410	7835.45	6325.20	6010.23	-2485.09	1766605.91	385742.26	39°33'24.6894"N	80°12'57.8637"W	6503.73	337.536	1.82
15014.00	87.910	324.450	7838.50	6419.15	6086.65	-2539.74	1766551.26	385818.68	39°33'25.4403"N	80°12'58.5692"W	6595.27	337.351	0.49
15109.00	89.880	324.950	7840.34	6514.12	6164.17	-2594.62	1766496.38	385896.19	39°33'26.2020"N	80°12'59.2778"W	6687.97	337.173	2.14
15204.00	89.380	324.340	7840.95	6609.11	6241.64	-2649.59	1766441.42	385973.66	39°33'26.9634"N	80°12'59.9875"W	6780.74	336.999	0.83
15299.00	89.660	324.360	7841.74	6704.11	6318.84	-2704.96	1766386.05	386050.85	39°33'27.7219"N	80°13'0.7023"W	6873.46	336.825	0.30
15393.00	90.490	324.420	7841.62	6798.10	6395.26	-2759.69	1766331.32	386127.26	39°33'28.4729"N	80°13'1.4088"W	6965.29	336.659	0.89
15487.00	90.680	324.610	7840.66	6892.10	6471.80	-2814.25	1766276.76	386203.80	39°33'29.2250"N	80°13'2.1133"W	7057.21	336.498	0.29
15582.00	90.150	324.540	7839.97	6987.09	6549.21	-2869.32	1766221.70	386281.20	39°33'29.9857"N	80°13'2.8242"W	7150.18	336.341	0.56
15677.00	89.450	324.310	7840.31	7082.09	6626.47	-2924.59	1766166.44	386358.47	39°33'30.7449"N	80°13'3.5377"W	7243.16	336.186	0.78
15773.00	90.370	324.770	7840.46	7178.08	6704.67	-2980.28	1766110.75	386436.65	39°33'31.5133"N	80°13'4.2567"W	7337.21	336.034	1.07
15867.00	90.990	324.500	7839.34	7272.07	6781.32	-3034.68	1766056.35	386513.30	39°33'32.2665"N	80°13'4.9591"W	7429.37	335.891	0.72
15961.00	90.830	324.370	7837.85	7366.06	6857.77	-3089.35	1766001.69	386589.75	39°33'33.0178"N	80°13'5.6648"W	7521.51	335.749	0.22
16056.00	90.340	324.430	7836.88	7461.05	6935.01	-3144.64	1765946.40	386666.98	39°33'33.7767"N	80°13'6.3787"W	7614.67	335.608	0.52
16151.00	89.660	324.230	7836.88	7556.05	7012.19	-3200.04	1765891.00	386744.16	39°33'34.5351"N	80°13'7.0939"W	7707.86	335.470	0.75
16246.00	89.570	324.280	7837.52	7651.05	7089.29	-3255.54	1765835.51	386821.25	39°33'35.2927"N	80°13'7.8103"W	7801.06	335.335	0.11
16341.00	87.910	324.250	7839.61	7746.02	7166.38	-3311.00	1765780.05	386898.34	39°33'36.0502"N	80°13'8.5264"W	7894.29	335.202	1.75

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WELLPATH DATA (255 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]
16436.00	88.030	324.380	7842.97	7840.96	7243.50	-3366.38	1765724.67	386975.45	39°33'36.8079"N	80°13'9.2414"W	7987.54	335.074	0.19

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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 5H-A ST01
Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH DATA (255 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]
16531.00	88.920	324.490	7845.50	7935.92	7320.75	-3421.62	1765669.44	387052.70	39°33'37.5670"N	80°13'9.9545"W	8080.89	334.949	0.94
16626.00	88.830	324.230	7847.36	8030.90	7397.94	-3476.96	1765614.10	387129.88	39°33'38.3254"N	80°13'10.6690"W	8174.28	334.827	0.29
16721.00	89.380	324.280	7848.85	8125.89	7475.03	-3532.45	1765558.61	387206.97	39°33'39.0830"N	80°13'11.3854"W	8267.67	334.706	0.58
16815.00	90.800	324.560	7848.70	8219.89	7551.48	-3587.15	1765503.92	387283.42	39°33'39.8341"N	80°13'12.0915"W	8360.17	334.591	1.54
16910.00	90.340	324.630	7847.76	8314.88	7628.91	-3642.18	1765448.89	387360.84	39°33'40.5950"N	80°13'12.8021"W	8453.74	334.479	0.49
17005.00	89.570	324.350	7847.83	8409.87	7706.24	-3697.36	1765393.71	387438.17	39°33'41.3549"N	80°13'13.5145"W	8547.32	334.369	0.86
17100.00	89.750	324.420	7848.39	8504.87	7783.47	-3752.68	1765338.39	387515.39	39°33'42.1137"N	80°13'14.2288"W	8640.89	334.260	0.20
17195.00	89.290	324.320	7849.19	8599.87	7860.68	-3808.02	1765283.06	387592.60	39°33'42.8724"N	80°13'14.9433"W	8734.49	334.153	0.50
17290.00	89.850	324.570	7849.90	8694.86	7937.97	-3863.26	1765227.82	387669.88	39°33'43.6318"N	80°13'15.6565"W	8828.14	334.049	0.65
17385.00	89.450	324.280	7850.48	8789.86	8015.23	-3918.53	1765172.56	387747.14	39°33'44.3910"N	80°13'16.3701"W	8921.82	333.947	0.52
17480.00	89.570	324.380	7851.29	8884.85	8092.41	-3973.92	1765117.17	387824.31	39°33'45.1493"N	80°13'17.0853"W	9015.49	333.846	0.16
17575.00	89.910	324.390	7851.73	8979.85	8169.64	-4029.24	1765061.85	387901.54	39°33'45.9082"N	80°13'17.7995"W	9109.21	333.748	0.36
17670.00	89.510	324.650	7852.21	9074.85	8247.00	-4084.38	1765006.71	387978.89	39°33'46.6683"N	80°13'18.5115"W	9203.00	333.653	0.50
17765.00	89.480	324.400	7853.04	9169.84	8324.36	-4139.51	1764951.59	388056.25	39°33'47.4285"N	80°13'19.2233"W	9296.80	333.560	0.27
17860.00	89.540	324.340	7853.86	9264.83	8401.57	-4194.85	1764896.25	388133.46	39°33'48.1872"N	80°13'19.9379"W	9390.59	333.467	0.09
17956.00	89.420	324.830	7854.73	9360.83	8479.81	-4250.48	1764840.62	388211.69	39°33'48.9559"N	80°13'20.6562"W	9485.45	333.378	0.53
18051.00	90.090	324.230	7855.13	9455.82	8557.17	-4305.61	1764785.50	388289.05	39°33'49.7161"N	80°13'21.3680"W	9579.33	333.290	0.95
18145.00	89.940	323.340	7855.11	9549.82	8633.01	-4361.14	1764729.97	388364.88	39°33'50.4612"N	80°13'22.0849"W	9672.05	333.198	0.96
18240.00	89.080	323.370	7855.92	9644.81	8709.23	-4417.84	1764673.27	388441.10	39°33'51.2100"N	80°13'22.8167"W	9765.66	333.103	0.91
18334.00	88.770	323.120	7857.69	9738.78	8784.53	-4474.08	1764617.04	388516.39	39°33'51.9497"N	80°13'23.5425"W	9858.27	333.010	0.42
18429.00	88.520	323.730	7859.93	9833.75	8860.80	-4530.67	1764560.45	388592.66	39°33'52.6989"N	80°13'24.2729"W	9951.93	332.919	0.69
18524.00	90.950	323.650	7860.37	9928.74	8937.35	-4586.92	1764504.20	388669.20	39°33'53.4509"N	80°13'24.9990"W	10045.70	332.832	2.56
18615.00	89.260	323.440	7860.20	10019.73	9010.54	-4640.99	1764450.14	388742.39	39°33'54.1700"N	80°13'25.6969"W	10135.51	332.749	1.87
18710.00	89.420	323.510	7861.30	10114.72	9086.88	-4697.53	1764393.60	388818.72	39°33'54.9199"N	80°13'26.4267"W	10229.28	332.663	0.18
18804.00	89.260	323.270	7862.38	10208.71	9162.33	-4753.58	1764337.55	388894.17	39°33'55.6611"N	80°13'27.1502"W	10322.05	332.579	0.31
18898.00	89.420	323.450	7863.46	10302.69	9237.75	-4809.68	1764281.46	388969.58	39°33'56.4020"N	80°13'27.8742"W	10414.84	332.496	0.26
18992.00	89.200	323.190	7864.60	10396.68	9313.13	-4865.82	1764225.32	389044.96	39°33'57.1425"N	80°13'28.5989"W	10507.65	332.414	0.36
19087.00	89.380	323.410	7865.77	10491.66	9389.29	-4922.59	1764168.55	389121.12	39°33'57.8906"N	80°13'29.3316"W	10601.45	332.333	0.30
19182.00	89.260	323.370	7866.90	10586.65	9465.54	-4979.25	1764111.90	389197.36	39°33'58.6397"N	80°13'30.0628"W	10695.30	332.254	0.13

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WELLPATH DATA (255 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]
19276.00	89.050	323.310	7868.29	10680.63	9540.94	-5035.36	1764055.79	389272.76	39°33'59.3804"N	80°13'30.7872"W	10788.16	332.177	0.23

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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 5H-A ST01
Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH DATA (255 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]
19372.00	89.720	323.220	7869.32	10776.61	9617.87	-5092.78	1763998.38	389349.68	39°34'0.1361"N	80°13'31.5282"W	10883.01	332.098	0.70
19466.00	89.230	323.270	7870.18	10870.60	9693.18	-5149.03	1763942.13	389424.99	39°34'0.8758"N	80°13'32.2542"W	10975.89	332.023	0.52
19561.00	89.630	323.610	7871.12	10965.59	9769.49	-5205.61	1763885.55	389501.29	39°34'1.6254"N	80°13'32.9846"W	11069.83	331.949	0.55
19656.00	90.710	323.560	7870.84	11060.58	9845.93	-5262.00	1763829.16	389577.73	39°34'2.3764"N	80°13'33.7126"W	11163.83	331.878	1.14
19751.00	91.020	323.550	7869.41	11155.57	9922.35	-5318.43	1763772.74	389654.14	39°34'3.1271"N	80°13'34.4410"W	11257.83	331.808	0.33
19846.00	91.050	323.650	7867.69	11250.55	9998.80	-5374.80	1763716.38	389730.59	39°34'3.8781"N	80°13'35.1686"W	11351.85	331.740	0.11
19941.00	91.450	323.060	7865.62	11345.52	10075.00	-5431.49	1763659.69	389806.79	39°34'4.6267"N	80°13'35.9004"W	11445.82	331.671	0.75
20035.00	91.570	323.510	7863.14	11439.48	10150.33	-5487.66	1763603.52	389882.11	39°34'5.3666"N	80°13'36.6255"W	11538.79	331.603	0.50
20130.00	91.600	323.680	7860.51	11534.44	10226.76	-5544.02	1763547.16	389958.53	39°34'6.1175"N	80°13'37.3530"W	11632.83	331.537	0.18
20225.00	91.480	323.700	7857.96	11629.40	10303.28	-5600.26	1763490.93	390035.06	39°34'6.8693"N	80°13'38.0790"W	11726.92	331.474	0.13
20321.00	91.350	324.550	7855.59	11725.37	10381.05	-5656.50	1763434.69	390112.81	39°34'7.6333"N	80°13'38.8052"W	11822.10	331.415	0.90
20416.00	91.600	324.700	7853.15	11820.33	10458.48	-5711.48	1763379.72	390190.25	39°34'8.3942"N	80°13'39.5152"W	11916.41	331.361	0.31
20510.00	90.740	324.620	7851.23	11914.31	10535.15	-5765.84	1763325.36	390266.90	39°34'9.1474"N	80°13'40.2173"W	12009.75	331.308	0.92
20605.00	91.910	325.080	7849.03	12009.27	10612.80	-5820.51	1763270.69	390344.55	39°34'9.9105"N	80°13'40.9236"W	12104.13	331.258	1.32
20698.00	91.380	324.750	7846.36	12102.22	10688.87	-5873.95	1763217.26	390420.62	39°34'10.6580"N	80°13'41.6137"W	12196.52	331.210	0.67
20793.00	90.950	324.610	7844.43	12197.20	10766.37	-5928.86	1763162.35	390498.11	39°34'11.4195"N	80°13'42.3230"W	12290.89	331.159	0.48
20887.00	90.950	324.760	7842.87	12291.18	10843.06	-5983.19	1763108.02	390574.80	39°34'12.1731"N	80°13'43.0247"W	12384.29	331.110	0.16
20981.00	90.340	324.570	7841.81	12385.17	10919.74	-6037.55	1763053.66	390651.47	39°34'12.9265"N	80°13'43.7268"W	12477.69	331.062	0.68
21076.00	90.800	324.610	7840.87	12480.16	10997.16	-6092.59	1762998.62	390728.89	39°34'13.6872"N	80°13'44.4377"W	12572.08	331.013	0.49
21171.00	91.750	324.760	7838.75	12575.13	11074.66	-6147.50	1762943.72	390806.39	39°34'14.4487"N	80°13'45.1468"W	12666.49	330.966	1.01
21265.00	92.060	324.530	7835.63	12669.07	11151.28	-6201.86	1762889.36	390883.00	39°34'15.2016"N	80°13'45.8489"W	12759.87	330.919	0.41
21361.00	92.220	324.670	7832.04	12765.00	11229.48	-6257.43	1762833.79	390961.20	39°34'15.9700"N	80°13'46.5667"W	12855.22	330.872	0.22
21456.00	92.220	324.790	7828.36	12859.92	11306.98	-6312.25	1762778.98	391038.69	39°34'16.7315"N	80°13'47.2747"W	12949.61	330.827	0.13
21551.00	92.250	324.760	7824.66	12954.85	11384.53	-6367.00	1762724.23	391116.24	39°34'17.4935"N	80°13'47.9819"W	13044.01	330.783	0.04
21645.00	92.190	324.790	7821.02	13048.77	11461.26	-6421.18	1762670.06	391192.96	39°34'18.2474"N	80°13'48.6817"W	13137.43	330.740	0.07
21740.00	92.280	324.330	7817.31	13143.69	11538.60	-6476.22	1762615.02	391270.30	39°34'19.0073"N	80°13'49.3926"W	13231.81	330.696	0.49
21834.00	91.970	324.660	7813.83	13237.62	11615.07	-6530.78	1762560.47	391346.76	39°34'19.7587"N	80°13'50.0972"W	13325.20	330.652	0.48
21929.00	91.940	324.630	7810.59	13332.56	11692.51	-6585.71	1762505.53	391424.19	39°34'20.5195"N	80°13'50.8068"W	13419.62	330.610	0.04
22024.00	92.490	325.280	7806.91	13427.48	11770.22	-6640.22	1762451.03	391501.90	39°34'21.2832"N	80°13'51.5110"W	13514.09	330.570	0.90

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WELLPATH DATA (255 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]
22118.00	91.940	324.610	7803.28	13521.40	11847.11	-6694.17	1762397.08	391578.79	39°34'22.0388"N	80°13'52.2079"W	13607.57	330.532	0.92

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Upton 5H-A ST01 AWP PROJ: 23468'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 5H-A ST01
Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH DATA (255 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]
22212.00	91.940	324.790	7800.10	13615.34	11923.79	-6748.46	1762342.80	391655.46	39°34'22.7921"N	80°13'52.9091"W	13701.04	330.492	0.19
22307.00	92.310	324.860	7796.58	13710.27	12001.39	-6803.15	1762288.11	391733.05	39°34'23.5546"N	80°13'53.6156"W	13795.51	330.453	0.40
22402.00	93.360	325.400	7791.88	13805.13	12079.23	-6857.40	1762233.87	391810.89	39°34'24.3196"N	80°13'54.3164"W	13889.99	330.416	1.24
22496.00	92.590	322.800	7787.00	13899.00	12155.26	-6912.44	1762178.83	391886.92	39°34'25.0666"N	80°13'55.0272"W	13983.28	330.374	2.88
22591.00	91.910	322.160	7783.27	13993.89	12230.55	-6970.25	1762121.02	391962.21	39°34'25.8060"N	80°13'55.7733"W	14077.32	330.321	0.98
22686.00	94.250	323.530	7778.16	14088.72	12306.15	-7027.54	1762063.73	392037.80	39°34'26.5485"N	80°13'56.5128"W	14171.37	330.271	2.85
22781.00	92.590	323.700	7772.50	14183.54	12382.49	-7083.79	1762007.48	392114.14	39°34'27.2984"N	80°13'57.2391"W	14265.56	330.227	1.76
22875.00	90.830	323.840	7769.69	14277.50	12458.28	-7139.32	1761951.96	392189.92	39°34'28.0429"N	80°13'57.9561"W	14358.92	330.185	1.88
22970.00	90.920	323.600	7768.24	14372.48	12534.86	-7195.53	1761895.75	392266.49	39°34'28.7952"N	80°13'58.6819"W	14453.31	330.142	0.27
23065.00	91.020	323.820	7766.63	14467.47	12611.42	-7251.75	1761839.54	392343.05	39°34'29.5473"N	80°13'59.4078"W	14547.71	330.100	0.25
23159.00	90.770	323.450	7765.17	14561.45	12687.10	-7307.48	1761783.81	392418.73	39°34'30.2907"N	80°14'0.1274"W	14641.10	330.059	0.48
23254.00	90.650	323.620	7763.99	14656.44	12763.50	-7363.94	1761727.36	392495.12	39°34'31.0412"N	80°14'0.8563"W	14735.48	330.017	0.22
23349.00	90.580	323.480	7762.97	14751.43	12839.91	-7420.37	1761670.92	392571.53	39°34'31.7918"N	80°14'1.5850"W	14829.87	329.976	0.16
23443.00	90.520	323.570	7762.07	14845.42	12915.49	-7476.25	1761615.05	392647.10	39°34'32.5342"N	80°14'2.3065"W	14923.28	329.935	0.12
23468.00‡	90.520	323.570	7761.84	14870.42	12935.61	-7491.10	1761600.20	392667.22	39°34'32.7318"N	80°14'2.4982"W	14948.12	329.925	0.00

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Upton 5H-A ST01 BHL rev1	7897.00	12935.55	-7493.34	1761597.96	392667.16	39°34'32.7311"N	80°14'2.5269"W	point
Upton 5H-A ST01 LP rev1	7897.00	990.10	1157.86	1770248.64	380722.43	39°32'35.3609"N	80°12'10.8523"W	point

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Actual Wellpath Report

Upton 5H-A ST01 AWP PROJ: 23468'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Upton 5H-A ST01
Field	Marion	UWI	47049025980100
Facility	Upton Pad	Wellbore	Upton 5H-A ST01 AWB
Slot	5H-A	Sidetrack from	Upton 5H-A Pilot AWP PROJ 8005' at 4800.00 MD

WELLPATH COMPOSITION - Ref Wellbore: Upton 5H-A ST01 AWB Ref Wellpath: Upton 5H-A ST01 AWP PROJ: 23468'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	650.00	OWSG XYZ Accel with XY Static and Continuous Gyro rev1.1	1 Import Gyro 50' - 650'	Upton 5H-A Pilot AWB	2025-12-03
650.00	4800.00	OWSG MWD rev2 + HRGM	2 Imported AEP MWD HRGM 941' - 7937'	Upton 5H-A Pilot AWB	2025-12-03
4800.00	23468.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH ATC Short spacing HDGM 8.5" 4885' - 23443'	Upton 5H-A ST01 AWB	2026-01-04

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