



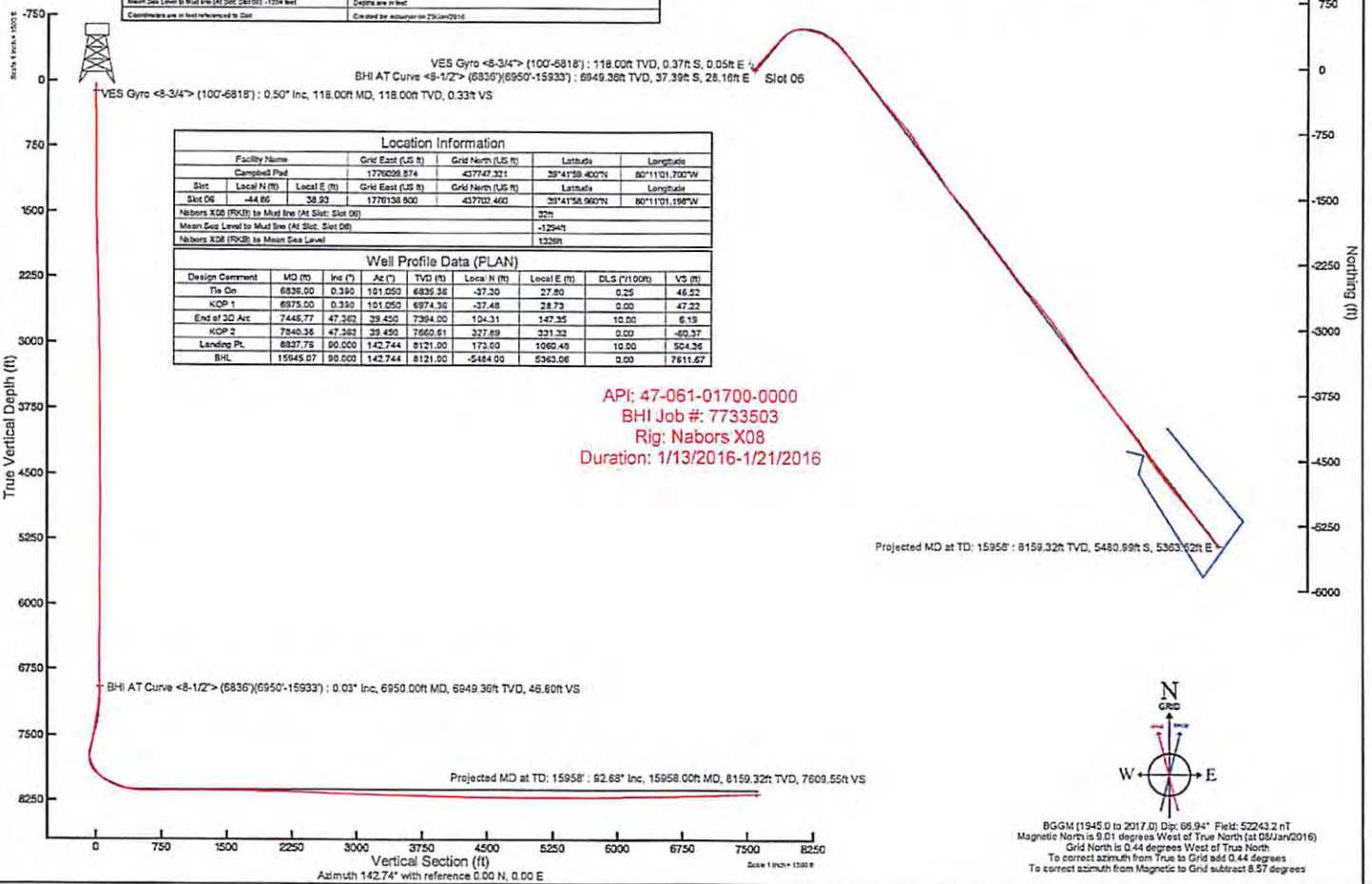
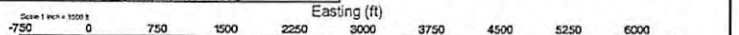
NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot 06
 Well: Campbell 6H
 Wellbore: Campbell 6H PWB



Well reference weight is Campbell 6H PWB Row C 2	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4221), US feet
True vertical depths are referenced to Nabors X08 (RKB)	North Balance: 0.00 m
Measured depths are referenced to Nabors X08 (RKB)	Scale: True distance
Nabors X08 (RKB) to Mean Sea Level: 1328 feet	Depth is in feet
Mean Sea Level to Mud line (At Slot: Slot 06): -1294 feet	Created by acquisition on 29-Jan-2016
Coordinates are in feet referenced to Slot	



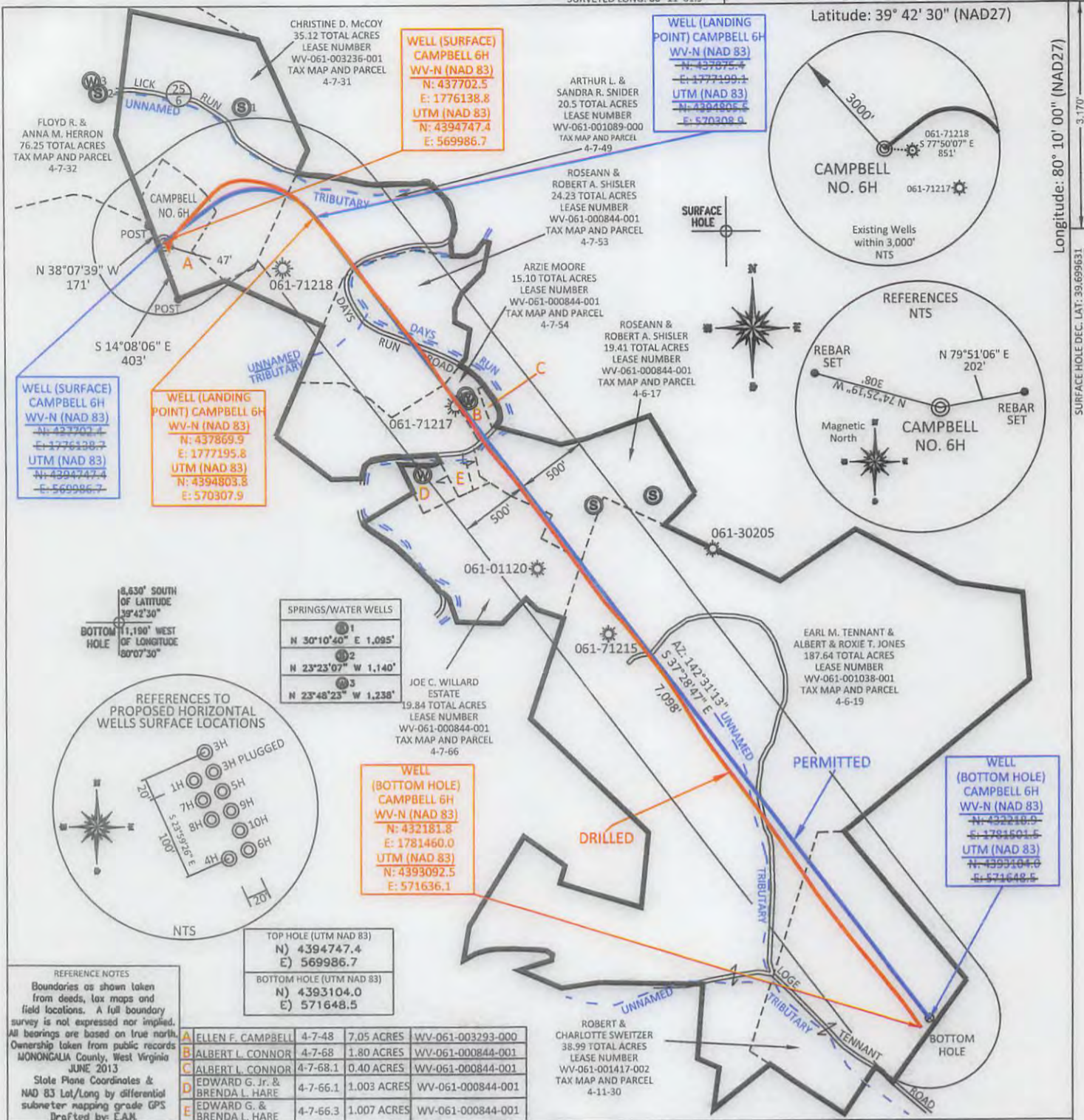
Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Campbell Pad	1776298.874	437747.321	39°41'59.4007N	80°11'01.7007W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot 06	-44.86	38.93	1776138.900	437702.460	39°41'58.9807N 80°11'01.1987W
Nabors X08 (RKB) to Mud line (At Slot: Slot 06)	32ft				
Mean Sep Level to Mud line (At Slot: Slot 06)	-1294ft				
Nabors X08 (RKB) to Mean Sea Level	1328ft				

Well Profile Data (PLAN)								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLG (°/100ft)	VS (ft)
Tie On	6936.00	0.390	101.050	6836.36	-37.30	27.80	0.25	46.52
KOP 1	6975.00	0.390	101.050	6974.36	-37.48	28.73	0.00	47.23
End of 3D Arc	7445.77	47.362	39.450	7394.00	104.31	147.35	10.00	6.19
KOP 2	7840.36	47.362	39.450	7660.61	327.89	331.32	0.00	-60.37
Landing PL	8337.76	50.000	142.744	8121.00	173.00	1060.49	10.00	504.26
BHL	15945.07	90.000	142.744	8121.00	-5484.00	5363.06	0.00	7811.67

API: 47-061-01700-0000
 BHI Job #: 7733503
 Rig: Nabors X08
 Duration: 1/13/2016-1/21/2016



BGGM (1945.0 to 2017.0) Dip: 66.94° Field: 52243.2 nT
 Magnetic North is 9.01 degrees West of True North (at 08/Jan/2016)
 Grid North is 0.44 degrees West of True North
 To correct azimuth from True to Grid add 0.44 degrees
 To correct azimuth from Magnetic to Grid subtract 8.57 degrees

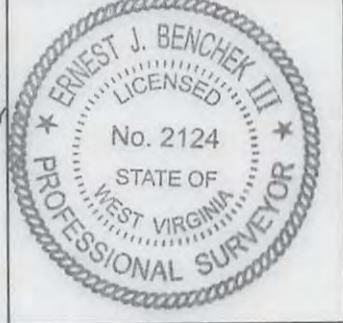


REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia JUNE 2013
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

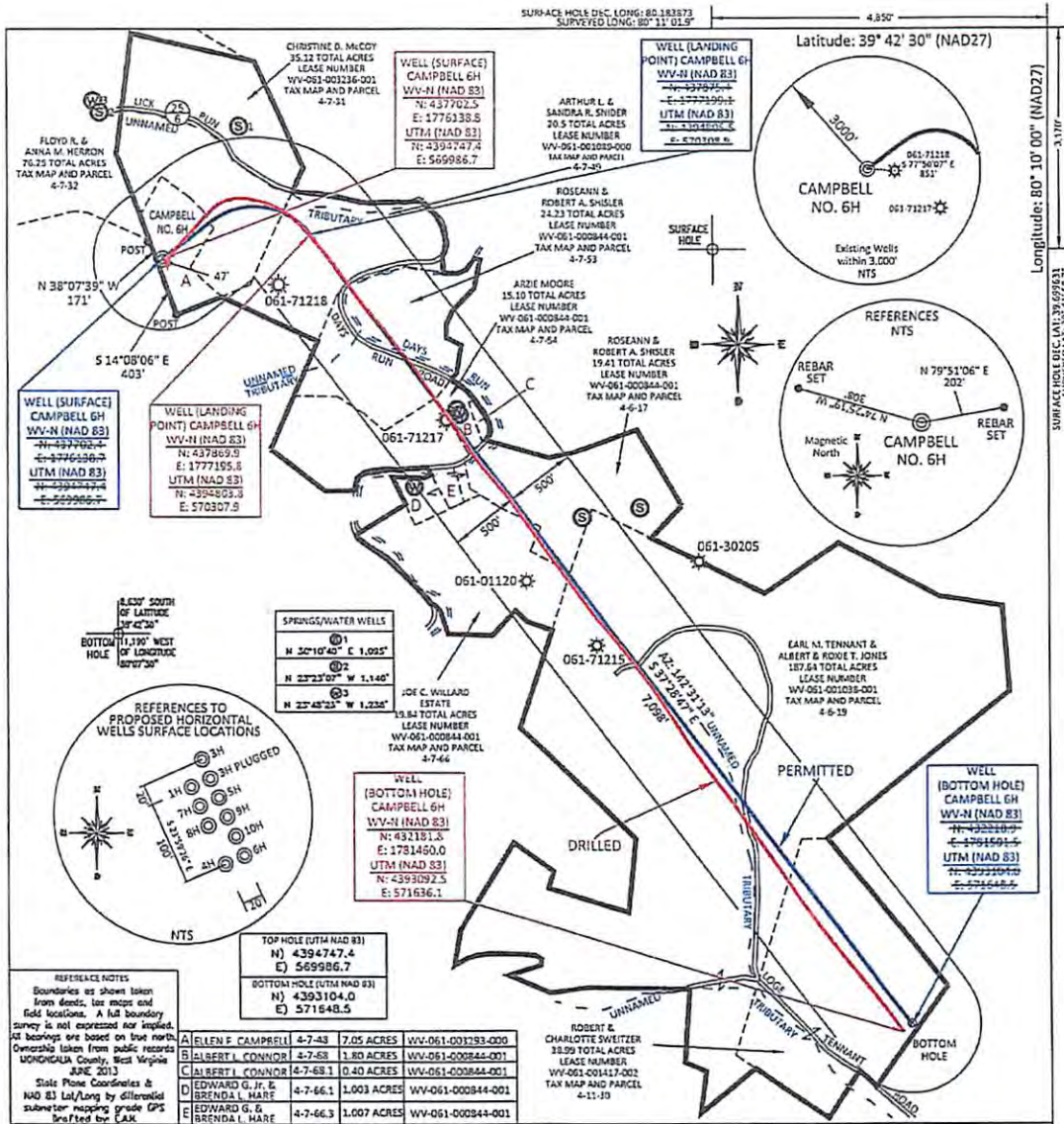
Well ID	Acres	Lease Number
A ELLEN F. CAMPBELL	4-7-48 7.05 ACRES	WV-061-003293-000
B ALBERT L. CONNOR	4-7-68 1.80 ACRES	WV-061-000844-001
C ALBERT L. CONNOR	4-7-68.1 0.40 ACRES	WV-061-000844-001
D EDWARD G. JR. & BRENDA L. HARE	4-7-66.1 1.003 ACRES	WV-061-000844-001
E EDWARD G. & BRENDA L. HARE	4-7-66.3 1.007 ACRES	WV-061-000844-001

FILE #: NNE13
 DRAWING #: 2365
 SCALE: PLAT: 1" = 1000'
TICK MARK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: [Signature]
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304
 Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: DUNKARD CREEK
 COUNTY/DISTRICT: MONONGALIA / CLAY
 SURFACE OWNER: ELLEN F. CAMPBELL
 OIL & GAS ROYALTY OWNER: ELLEN FOLEY CAMPBELL, ET AL
 LEASE NUMBERS: _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____
 TARGET FORMATION: MARCELLUS
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
 DATE: APRIL 21, 2016
 OPERATOR'S WELL #: CAMPBELL NO. 6H AS-DRILLED
 API WELL #: 47 61 01700
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,293.6'
 QUADRANGLE: BLACKSVILLE, WV
 ACREAGE: 7.05 +/-
 ACREAGE: 372.09 +/-
 ESTIMATED DEPTH: TVD: 8,159.32' TMD: 15,958'
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



FILE #: NNE13
 DRAWING #: 2365
 SCALE: PLAT: 1" = 1000'
TICK MARK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
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I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [Signature]
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: DUNKARD CREEK
 COUNTY/DISTRICT: MONONGALIA / CLAY
 SURFACE OWNER: ELLEN F. CAMPBELL
 OIL & GAS ROYALTY OWNER: ELLEN FOLEY CAMPBELL, ET AL
 LEASE NUMBERS: _____

DATE: APRIL 19, 2016
 OPERATOR'S WELL #: CAMPBELL NO. 6H AS-DRILLED
 API WELL #: 47 61 01700
 STATE COUNTY PERMIT

AS-BUILT ELEVATION: 1,293.6'
 QUADRANGLE: BLACKSVILLE, WV
 ACREAGE: 7.05 +/-
 ACREAGE: 372.09 +/-

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TVD: 8,118' TMD: 15,921'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



Actual Wellpath Report

Campbell 6H AWP Proj: 15958'
Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Edsaryar
Scale	0.999942	Report Generated	25/Jan/2016 at 10:40
Convergence at slot	0.44° West	Database/Source file	WA_MPL_EASTERBUS_Defn/Campbell_6H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-44.86	38.93	1776138.80	437702.46	39°41'58.960"N	80°11'01.198"W
Facility Reference Pt			1776099.87	437747.32	39°41'59.400"N	80°11'01.700"W
Field Reference Pt			1777685.71	440640.65	39°42'28.114"N	80°10'41.690"W

WELLPATH DATUM

Calculation method	Minimum curvature	Nabors X08 (RKB) to Facility Vertical Datum	1326.00ft
Horizontal Reference Pt	Slot	Nabors X08 (RKB) to Mean Sea Level	1326.00ft
Vertical Reference Pt	Nabors X08 (RKB)	Nabors X08 (RKB) to Mud Line at Slot (Slot 06)	32.00ft
MD Reference Pt	Nabors X08 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	142.74°

25/Jan/2016



Actual Wellpath Report

Campbell 6H AWP Proj: 15958'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

WELLPATH DATA (168 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.900	172.680	0.00	0.00	0.00	0.00	1776138.80	437702.46	39°41'58.960"N	80°11'01.198"W	0.00	0.000	0.00	0.00	0.00
32.00	0.900	172.680	32.00	0.00	0.00	0.00	1776138.80	437702.46	39°41'58.960"N	80°11'01.198"W	0.00	0.000	0.00	0.00	0.00
118.00	0.500	172.680	118.00	0.33	-0.37	0.05	1776138.85	437702.09	39°41'58.956"N	80°11'01.197"W	0.38	172.680	0.58	0.58	0.00
218.00	0.380	143.800	218.00	1.03	-1.07	0.30	1776139.10	437701.39	39°41'58.949"N	80°11'01.194"W	1.11	164.410	0.25	-0.12	-28.88
318.00	0.510	159.730	317.99	1.79	-1.76	0.65	1776139.45	437700.70	39°41'58.942"N	80°11'01.189"W	1.87	159.725	0.18	0.13	15.93
418.00	0.500	167.510	417.99	2.61	-2.60	0.90	1776139.70	437699.86	39°41'58.934"N	80°11'01.186"W	2.75	160.957	0.07	-0.01	7.78
518.00	0.440	154.440	517.99	3.39	-3.37	1.16	1776139.96	437699.09	39°41'58.926"N	80°11'01.182"W	3.57	161.057	0.12	-0.06	-13.07
618.00	0.540	163.280	617.98	4.20	-4.17	1.46	1776140.26	437698.29	39°41'58.918"N	80°11'01.179"W	4.42	160.720	0.13	0.10	8.84
718.00	0.580	157.660	717.98	5.13	-5.09	1.79	1776140.59	437697.37	39°41'58.909"N	80°11'01.174"W	5.40	160.657	0.07	0.04	-5.62
818.00	0.470	173.240	817.97	5.98	-5.97	2.03	1776140.83	437696.49	39°41'58.901"N	80°11'01.171"W	6.30	161.228	0.18	-0.11	15.58
918.00	0.420	163.780	917.97	6.67	-6.73	2.18	1776140.98	437695.74	39°41'58.893"N	80°11'01.169"W	7.07	162.053	0.09	-0.05	-9.46
1018.00	0.350	158.810	1017.97	7.31	-7.36	2.39	1776141.19	437695.10	39°41'58.887"N	80°11'01.166"W	7.74	162.006	0.08	-0.07	-4.97
1118.00	0.320	81.420	1117.97	7.73	-7.61	2.78	1776141.58	437694.86	39°41'58.885"N	80°11'01.161"W	8.10	159.936	0.42	-0.03	-77.39
1218.00	0.330	103.890	1217.97	8.09	-7.63	3.33	1776142.13	437694.83	39°41'58.884"N	80°11'01.154"W	8.33	156.408	0.13	0.01	22.47
1318.00	0.390	116.370	1317.96	8.62	-7.85	3.92	1776142.72	437694.61	39°41'58.882"N	80°11'01.147"W	8.78	153.491	0.10	0.06	12.68
1418.00	0.590	132.410	1417.96	9.43	-8.35	4.60	1776143.40	437694.11	39°41'58.877"N	80°11'01.138"W	9.54	151.150	0.24	0.20	15.84
1518.00	0.940	122.360	1517.95	10.71	-9.14	5.67	1776144.47	437693.32	39°41'58.870"N	80°11'01.124"W	10.76	148.164	0.37	0.33	-10.05
1618.00	1.390	117.260	1617.93	12.57	-10.13	7.45	1776146.25	437692.33	39°41'58.860"N	80°11'01.101"W	12.58	143.694	0.46	0.45	-5.10
1718.00	1.270	120.120	1717.90	14.69	-11.25	9.48	1776148.28	437691.21	39°41'58.849"N	80°11'01.075"W	14.71	139.862	0.14	-0.12	2.86
1818.00	1.300	127.720	1817.88	16.81	-12.50	11.34	1776150.14	437689.96	39°41'58.837"N	80°11'01.051"W	16.87	137.780	0.17	0.03	7.60
1918.00	1.560	136.150	1917.85	19.26	-14.17	13.18	1776151.98	437688.29	39°41'58.820"N	80°11'01.028"W	19.35	137.079	0.33	0.26	8.43
2018.00	1.600	129.570	2017.81	21.97	-16.04	15.20	1776154.00	437686.42	39°41'58.802"N	80°11'01.002"W	22.10	136.549	0.19	0.04	-6.58
2118.00	1.500	132.250	2117.77	24.62	-17.81	17.24	1776156.04	437684.65	39°41'58.785"N	80°11'00.975"W	24.79	135.930	0.12	-0.10	2.68
2218.00	1.650	137.680	2217.73	27.34	-19.76	19.18	1776157.98	437682.70	39°41'58.766"N	80°11'00.950"W	27.54	135.847	0.21	0.15	5.43
2318.00	1.850	137.840	2317.69	30.38	-22.02	21.23	1776160.03	437680.44	39°41'58.744"N	80°11'00.924"W	30.59	136.038	0.20	0.20	0.16
2418.00	1.940	135.340	2417.63	33.67	-24.42	23.51	1776162.31	437678.04	39°41'58.720"N	80°11'00.894"W	33.89	136.089	0.12	0.09	-2.50
2518.00	1.830	133.450	2517.58	36.92	-26.72	25.86	1776164.65	437675.74	39°41'58.697"N	80°11'00.864"W	37.18	135.942	0.13	-0.11	-1.89
2618.00	1.480	134.690	2617.54	39.78	-28.73	27.93	1776166.73	437673.74	39°41'58.678"N	80°11'00.837"W	40.07	135.802	0.35	-0.35	1.24
2718.00	0.930	137.480	2717.51	41.86	-30.23	29.40	1776168.20	437672.23	39°41'58.663"N	80°11'00.819"W	42.17	135.800	0.55	-0.55	2.79
2818.00	0.940	126.550	2817.50	43.46	-31.32	30.61	1776169.41	437671.14	39°41'58.652"N	80°11'00.803"W	43.79	135.659	0.18	0.01	-10.93



Actual Wellpath Report

Campbell 6H AWP Proj: 15958'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

WELLPATH DATA (168 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2918.00	0.730	116.390	2917.49	44.82	-32.09	31.84	1776170.63	437670.37	39°41'58.645"N	80°11'00.787"W	45.20	135.228	0.26	-0.21	-10.16
3018.00	0.690	129.040	3017.48	45.97	-32.75	32.88	1776171.67	437669.71	39°41'58.638"N	80°11'00.774"W	46.41	134.894	0.16	-0.04	12.65
3118.00	0.700	132.340	3117.48	47.16	-33.54	33.79	1776172.59	437668.92	39°41'58.631"N	80°11'00.762"W	47.62	134.787	0.04	0.01	3.30
3218.00	0.520	133.090	3217.47	48.21	-34.27	34.58	1776173.38	437668.20	39°41'58.624"N	80°11'00.752"W	48.68	134.741	0.18	-0.18	0.75
3318.00	0.680	120.000	3317.46	49.20	-34.87	35.42	1776174.22	437667.59	39°41'58.618"N	80°11'00.741"W	49.71	134.552	0.21	0.16	-13.09
3418.00	0.380	132.110	3417.46	50.07	-35.39	36.18	1776174.98	437667.07	39°41'58.613"N	80°11'00.731"W	50.61	134.367	0.32	-0.30	12.11
3518.00	0.370	129.190	3517.46	50.71	-35.82	36.68	1776175.48	437666.64	39°41'58.608"N	80°11'00.725"W	51.27	134.320	0.02	-0.01	-2.92
3618.00	0.450	123.000	3617.46	51.40	-36.24	37.26	1776176.06	437666.23	39°41'58.604"N	80°11'00.717"W	51.97	134.203	0.09	0.08	-6.19
3718.00	0.530	111.630	3717.45	52.16	-36.62	38.02	1776176.82	437665.84	39°41'58.601"N	80°11'00.708"W	52.79	133.927	0.13	0.08	-11.37
3818.00	0.520	115.120	3817.45	52.96	-36.98	38.86	1776177.66	437665.48	39°41'58.597"N	80°11'00.697"W	53.64	133.584	0.03	-0.01	3.49
3918.00	0.600	130.090	3917.44	53.87	-37.51	39.67	1776178.47	437664.95	39°41'58.592"N	80°11'00.686"W	54.60	133.399	0.17	0.08	14.97
4018.00	0.250	125.740	4017.44	54.59	-37.98	40.25	1776179.05	437664.48	39°41'58.587"N	80°11'00.679"W	55.34	133.338	0.35	-0.35	-4.35
4118.00	0.360	167.990	4117.44	55.09	-38.41	40.49	1776179.29	437664.05	39°41'58.583"N	80°11'00.676"W	55.81	133.492	0.24	0.11	42.25
4218.00	0.210	159.700	4217.44	55.55	-38.89	40.62	1776179.42	437663.57	39°41'58.578"N	80°11'00.674"W	56.24	133.755	0.16	-0.15	-8.29
4318.00	0.330	201.210	4317.44	55.87	-39.33	40.58	1776179.38	437663.13	39°41'58.574"N	80°11'00.675"W	56.51	134.106	0.22	0.12	41.51
4418.00	0.290	156.900	4417.43	56.27	-39.83	40.57	1776179.37	437662.63	39°41'58.569"N	80°11'00.675"W	56.86	134.472	0.24	-0.04	-44.31
4518.00	0.410	213.370	4517.43	56.63	-40.36	40.48	1776179.27	437662.10	39°41'58.564"N	80°11'00.676"W	57.16	134.921	0.35	0.12	56.47
4618.00	0.200	194.080	4617.43	56.86	-40.83	40.24	1776179.03	437661.63	39°41'58.559"N	80°11'00.679"W	57.33	135.421	0.23	-0.21	-19.29
4718.00	0.480	213.850	4717.43	57.10	-41.35	39.96	1776178.76	437661.11	39°41'58.554"N	80°11'00.682"W	57.50	135.979	0.30	0.28	19.77
4818.00	0.450	245.090	4817.43	57.16	-41.86	39.37	1776178.17	437660.60	39°41'58.549"N	80°11'00.690"W	57.47	136.757	0.25	-0.03	31.24
4918.00	0.440	236.690	4917.42	57.04	-42.24	38.69	1776177.49	437660.22	39°41'58.545"N	80°11'00.698"W	57.28	137.508	0.07	-0.01	-8.40
5018.00	0.720	264.210	5017.42	56.69	-42.51	37.75	1776176.55	437659.95	39°41'58.542"N	80°11'00.711"W	56.85	138.398	0.39	0.28	27.52
5118.00	0.730	288.280	5117.41	55.84	-42.38	36.52	1776175.32	437660.09	39°41'58.544"N	80°11'00.726"W	55.94	139.247	0.30	0.01	24.07
5218.00	0.570	293.030	5217.40	54.88	-41.98	35.46	1776174.25	437660.48	39°41'58.547"N	80°11'00.740"W	54.95	139.818	0.17	-0.16	4.75
5318.00	0.590	282.770	5317.40	54.05	-41.67	34.50	1776173.29	437660.79	39°41'58.550"N	80°11'00.752"W	54.10	140.384	0.11	0.02	-10.26
5418.00	0.670	293.980	5417.39	53.15	-41.32	33.46	1776172.26	437661.14	39°41'58.554"N	80°11'00.766"W	53.17	141.003	0.15	0.08	11.21
5518.00	0.650	291.420	5517.39	52.15	-40.88	32.40	1776171.20	437661.58	39°41'58.558"N	80°11'00.779"W	52.16	141.602	0.04	-0.02	-2.56
5618.00	0.650	298.000	5617.38	51.15	-40.40	31.37	1776170.17	437662.06	39°41'58.563"N	80°11'00.792"W	51.15	142.176	0.07	0.00	6.58
5718.00	0.480	292.070	5717.38	50.27	-39.98	30.48	1776169.28	437662.48	39°41'58.567"N	80°11'00.804"W	50.27	142.680	0.18	-0.17	-5.93
5818.00	0.430	291.260	5817.37	49.59	-39.69	29.74	1776168.54	437662.77	39°41'58.570"N	80°11'00.813"W	49.60	143.153	0.05	-0.05	-0.81



Actual Wellpath Report

Campbell 6H AWP Proj: 15958'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

WELLPATH DATA (168 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
5918.00	0.270	299.270	5917.37	49.06	-39.44	29.19	1776167.98	437663.03	39°41'58.572"N	80°11'00.820"W	49.06	143.496	0.17	-0.16	8.01
6018.00	0.370	322.160	6017.37	48.52	-39.07	28.78	1776167.58	437663.40	39°41'58.576"N	80°11'00.826"W	48.52	143.619	0.16	0.10	22.89
6118.00	0.260	295.900	6117.37	47.99	-38.71	28.38	1776167.18	437663.75	39°41'58.579"N	80°11'00.831"W	48.00	143.754	0.18	-0.11	-26.26
6218.00	0.450	307.280	6217.37	47.41	-38.38	27.86	1776166.66	437664.09	39°41'58.582"N	80°11'00.837"W	47.42	144.017	0.20	0.19	11.38
6318.00	0.340	326.330	6317.36	46.74	-37.89	27.39	1776166.19	437664.57	39°41'58.587"N	80°11'00.844"W	46.75	144.141	0.17	-0.11	19.05
6418.00	0.290	0.230	6417.36	46.24	-37.39	27.22	1776166.02	437665.07	39°41'58.592"N	80°11'00.846"W	46.25	143.942	0.19	-0.05	33.90
6518.00	0.060	55.200	6517.36	46.04	-37.11	27.27	1776166.07	437665.35	39°41'58.595"N	80°11'00.845"W	46.05	143.691	0.26	-0.23	54.97
6618.00	0.050	247.080	6617.36	46.03	-37.09	27.27	1776166.07	437665.37	39°41'58.595"N	80°11'00.845"W	46.04	143.678	0.11	-0.01	-168.12
6718.00	0.110	121.140	6717.36	46.11	-37.16	27.31	1776166.11	437665.30	39°41'58.594"N	80°11'00.845"W	46.12	143.685	0.15	0.06	-125.94
6836.00	0.390	101.050	6835.36	46.52	-37.30	27.80	1776166.60	437665.17	39°41'58.593"N	80°11'00.838"W	46.52	143.297	0.25	0.24	-17.03
6950.00	0.030	237.530	6949.36	46.80	-37.39	28.16	1776166.96	437665.08	39°41'58.592"N	80°11'00.834"W	46.81	143.014	0.36	-0.32	119.72
7045.00	6.600	24.530	7044.15	44.22	-32.43	30.41	1776169.21	437670.03	39°41'58.641"N	80°11'00.805"W	44.45	136.842	6.97	6.92	154.74
7139.00	14.010	22.260	7136.57	35.88	-16.96	36.97	1776175.77	437685.50	39°41'58.795"N	80°11'00.723"W	40.67	114.646	7.89	7.88	-2.41
7234.00	21.010	27.900	7227.12	22.88	8.77	49.31	1776188.11	437711.22	39°41'59.050"N	80°11'00.568"W	50.08	79.921	7.57	7.37	5.94
7329.00	29.380	37.240	7313.04	9.47	42.44	71.43	1776210.23	437744.90	39°41'59.384"N	80°11'00.288"W	83.09	59.283	9.73	8.81	9.83
7423.00	39.290	43.180	7390.58	-1.67	82.61	105.85	1776244.64	437785.07	39°41'59.784"N	80°10'59.852"W	134.27	52.028	11.12	10.54	6.32
7517.00	48.740	43.370	7458.11	-12.39	130.11	150.57	1776289.37	437832.56	39°42'00.257"N	80°10'59.284"W	199.00	49.171	10.05	10.05	0.20
7612.00	48.870	42.150	7520.68	-24.78	182.59	199.11	1776337.89	437885.04	39°42'00.779"N	80°10'58.668"W	270.15	47.478	0.98	0.14	-1.28
7706.00	48.900	41.780	7582.49	-38.02	235.25	246.46	1776385.25	437937.69	39°42'01.303"N	80°10'58.067"W	340.71	46.334	0.30	0.03	-0.39
7801.00	48.870	41.700	7644.96	-51.67	288.65	294.11	1776432.89	437991.09	39°42'01.834"N	80°10'57.463"W	412.09	45.537	0.07	-0.03	-0.08
7896.00	47.340	43.970	7708.40	-63.85	340.51	342.17	1776480.95	438042.95	39°42'02.350"N	80°10'56.853"W	482.73	45.139	2.40	-1.61	2.39
7990.00	47.430	54.810	7772.15	-67.88	385.41	394.54	1776533.31	438087.84	39°42'02.798"N	80°10'56.188"W	551.54	45.671	8.48	0.10	11.53
8085.00	49.950	70.740	7835.08	-55.33	417.68	457.69	1776596.46	438120.12	39°42'03.122"N	80°10'55.383"W	619.63	47.617	12.85	2.65	16.77
8179.00	53.790	85.070	7893.30	-23.82	432.86	529.69	1776668.46	438135.30	39°42'03.277"N	80°10'54.463"W	684.07	50.745	12.65	4.09	15.24
8274.00	58.200	98.190	7946.58	25.62	430.40	608.11	1776746.87	438132.83	39°42'03.259"N	80°10'53.460"W	745.01	54.711	12.34	4.64	13.81
8368.00	62.750	102.890	7992.91	86.22	415.37	688.46	1776827.21	438117.81	39°42'03.116"N	80°10'52.430"W	804.06	58.896	6.51	4.84	5.00
8463.00	66.880	109.740	8033.36	155.38	391.16	770.85	1776909.61	438093.60	39°42'02.883"N	80°10'51.374"W	864.42	63.095	7.84	4.35	7.21
8557.00	69.140	118.980	8068.63	231.98	355.21	850.12	1776988.87	438057.65	39°42'02.534"N	80°10'50.356"W	921.34	67.323	9.42	2.40	9.83
8652.00	74.030	128.570	8098.69	317.11	305.10	924.85	1777063.60	438007.54	39°42'02.044"N	80°10'49.395"W	973.88	71.743	10.87	5.15	10.09
8746.00	79.350	135.500	8120.35	406.91	243.87	992.68	1777131.42	437946.31	39°42'01.444"N	80°10'48.521"W	1022.20	76.198	9.14	5.66	7.37



Actual Wellpath Report

Campbell 6H AWP Proj: 15958'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

WELLPATH DATA (168 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
8840.00	85.010	139.220	8133.14	499.57	175.39	1055.71	1777194.45	437877.84	39°42'00.772"N	80°10'47.708"W	1070.18	80.567	7.18	6.02	3.96
8935.00	91.200	139.740	8136.28	594.32	103.25	1117.37	1777256.10	437805.70	39°42'00.064"N	80°10'46.913"W	1122.13	84.721	6.54	6.52	0.55
9030.00	91.450	140.510	8134.08	689.20	30.36	1178.26	1777316.99	437732.82	39°41'59.348"N	80°10'46.127"W	1178.65	88.524	0.85	0.26	0.81
9124.00	91.020	140.850	8132.05	783.11	-42.34	1237.81	1777376.54	437660.12	39°41'58.634"N	80°10'45.358"W	1238.53	91.959	0.58	-0.46	0.36
9219.00	90.000	143.070	8131.21	878.09	-117.16	1296.34	1777435.06	437585.31	39°41'57.899"N	80°10'44.602"W	1301.63	95.164	2.57	-1.07	2.34
9314.00	89.910	143.280	8131.28	973.09	-193.20	1353.28	1777492.00	437509.27	39°41'57.152"N	80°10'43.866"W	1367.01	98.125	0.24	-0.09	0.22
9408.00	89.720	143.120	8131.59	1067.09	-268.47	1409.59	1777548.31	437434.01	39°41'56.412"N	80°10'43.138"W	1434.93	100.783	0.26	-0.20	-0.17
9503.00	89.910	139.990	8131.89	1162.05	-342.86	1468.65	1777607.36	437359.62	39°41'55.681"N	80°10'42.375"W	1508.14	103.141	3.30	0.20	-3.29
9597.00	90.030	137.480	8131.94	1255.82	-413.52	1530.64	1777669.35	437288.97	39°41'54.988"N	80°10'41.576"W	1585.52	105.118	2.67	0.13	-2.67
9692.00	90.090	141.580	8131.84	1350.65	-485.77	1592.29	1777730.99	437216.72	39°41'54.278"N	80°10'40.780"W	1664.74	106.966	4.32	0.06	4.32
9787.00	89.750	142.830	8131.98	1445.64	-560.84	1650.51	1777789.21	437141.66	39°41'53.541"N	80°10'40.028"W	1743.19	108.768	1.36	-0.36	1.32
9881.00	89.020	139.080	8132.99	1539.57	-633.83	1709.71	1777848.40	437068.67	39°41'52.824"N	80°10'39.263"W	1823.41	110.341	4.06	-0.78	-3.99
9976.00	89.170	139.570	8134.49	1634.39	-705.87	1771.62	1777910.31	436996.64	39°41'52.116"N	80°10'38.464"W	1907.06	111.724	0.54	0.16	0.52
10070.00	89.140	145.000	8135.87	1728.34	-780.19	1829.09	1777967.78	436922.32	39°41'51.386"N	80°10'37.722"W	1988.54	113.100	5.78	-0.03	5.78
10165.00	88.920	147.760	8137.48	1823.13	-859.28	1881.68	1778020.37	436843.23	39°41'50.608"N	80°10'37.042"W	2068.59	114.544	2.91	-0.23	2.91
10260.00	89.350	145.560	8138.92	1917.89	-938.63	1933.88	1778072.57	436763.88	39°41'49.828"N	80°10'36.366"W	2149.64	115.890	2.36	0.45	-2.32
10354.00	89.690	143.610	8139.78	2011.83	-1015.23	1988.35	1778127.03	436687.29	39°41'49.075"N	80°10'35.662"W	2232.54	117.048	2.09	0.27	-2.07
10449.00	89.170	143.940	8140.80	2106.81	-1091.86	2044.49	1778183.16	436610.66	39°41'48.322"N	80°10'34.936"W	2317.78	118.105	0.57	-0.45	0.35
10543.00	88.800	142.950	8142.46	2200.79	-1167.36	2100.46	1778239.14	436535.17	39°41'47.580"N	80°10'34.213"W	2403.06	119.064	1.12	-0.39	-1.05
10638.00	88.250	146.480	8144.91	2295.69	-1244.87	2155.31	1778293.98	436457.67	39°41'46.818"N	80°10'33.504"W	2488.99	120.010	3.76	-0.58	3.72
10733.00	87.750	148.240	8148.22	2390.31	-1324.81	2206.52	1778345.19	436377.73	39°41'46.032"N	80°10'32.841"W	2573.69	120.981	1.92	-0.53	1.85
10795.00	89.720	145.080	8149.59	2452.14	-1376.59	2240.58	1778379.25	436325.95	39°41'45.523"N	80°10'32.400"W	2629.68	121.566	6.00	3.18	-5.10
10890.00	86.950	140.390	8152.35	2547.07	-1452.14	2298.06	1778436.72	436250.41	39°41'44.781"N	80°10'31.658"W	2718.41	122.289	5.73	-2.92	-4.94
10985.00	87.070	138.250	8157.31	2641.76	-1524.08	2359.89	1778498.55	436178.47	39°41'44.074"N	80°10'30.860"W	2809.25	122.855	2.25	0.13	-2.25
11079.00	88.340	139.980	8161.07	2735.50	-1595.08	2421.37	1778560.02	436107.47	39°41'43.377"N	80°10'30.067"W	2899.53	123.375	2.28	1.35	1.84
11174.00	88.090	141.840	8164.03	2830.40	-1668.78	2481.24	1778619.89	436033.78	39°41'42.653"N	80°10'29.294"W	2990.21	123.923	1.97	-0.26	1.96
11268.00	88.280	144.130	8167.01	2924.34	-1743.79	2537.79	1778676.44	435958.77	39°41'41.916"N	80°10'28.563"W	3079.16	124.494	2.44	0.20	2.44
11363.00	88.520	143.890	8169.66	3019.28	-1820.63	2593.60	1778732.24	435881.94	39°41'41.161"N	80°10'27.842"W	3168.82	125.068	0.36	0.25	-0.25
11458.00	88.680	142.650	8171.99	3114.25	-1896.74	2650.39	1778789.03	435805.83	39°41'40.413"N	80°10'27.108"W	3259.18	125.589	1.32	0.17	-1.31
11552.00	87.910	142.510	8174.78	3208.20	-1971.37	2707.49	1778846.12	435731.21	39°41'39.680"N	80°10'26.370"W	3349.14	126.059	0.83	-0.82	-0.15



Actual Wellpath Report

Campbell 6H AWP Proj: 15958'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

WELLPATH DATA (168 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
11647.00	86.770	144.010	8179.19	3303.09	-2047.41	2764.25	1778902.88	435655.18	39°41'38.932"N	80°10'25.637"W	3439.91	126.526	1.98	-1.20	1.58
11741.00	87.910	142.520	8183.55	3396.98	-2122.66	2820.41	1778959.04	435579.93	39°41'38.193"N	80°10'24.911"W	3529.93	126.965	1.99	1.21	-1.59
11836.00	88.460	143.200	8186.56	3491.94	-2198.35	2877.74	1779016.37	435504.24	39°41'37.449"N	80°10'24.171"W	3621.34	127.377	0.92	0.58	0.72
11931.00	88.770	142.600	8188.86	3586.91	-2274.10	2935.03	1779073.65	435428.50	39°41'36.705"N	80°10'23.431"W	3712.94	127.769	0.71	0.33	-0.63
12025.00	89.170	142.590	8190.55	3680.89	-2348.75	2992.12	1779130.74	435353.85	39°41'35.971"N	80°10'22.693"W	3803.87	128.131	0.43	0.43	-0.01
12120.00	88.830	144.510	8192.21	3775.86	-2425.15	3048.55	1779187.16	435277.45	39°41'35.220"N	80°10'21.964"W	3895.51	128.503	2.05	-0.36	2.02
12215.00	88.830	141.830	8194.15	3870.83	-2501.17	3105.48	1779244.09	435201.44	39°41'34.473"N	80°10'21.228"W	3987.46	128.848	2.82	0.00	-2.82
12309.00	88.550	136.770	8196.30	3964.61	-2572.39	3166.74	1779305.35	435130.22	39°41'33.774"N	80°10'20.438"W	4079.88	129.088	5.39	-0.30	-5.38
12404.00	88.090	137.130	8199.08	4059.08	-2641.79	3231.56	1779370.17	435060.83	39°41'33.093"N	80°10'19.602"W	4173.97	129.266	0.61	-0.48	0.38
12498.00	88.400	141.130	8201.96	4152.83	-2712.82	3293.03	1779431.63	434989.80	39°41'32.395"N	80°10'18.809"W	4266.55	129.482	4.27	0.33	4.26
12593.00	88.490	141.540	8204.54	4247.77	-2786.97	3352.36	1779490.96	434915.66	39°41'31.667"N	80°10'18.043"W	4359.53	129.738	0.44	0.09	0.43
12688.00	88.650	142.770	8206.91	4342.73	-2861.96	3410.63	1779549.22	434840.67	39°41'30.930"N	80°10'17.290"W	4452.33	130.001	1.31	0.17	1.29
12782.00	89.350	142.650	8208.55	4436.72	-2936.74	3467.57	1779606.16	434765.90	39°41'30.195"N	80°10'16.555"W	4544.06	130.262	0.76	0.74	-0.13
12877.00	89.910	143.140	8209.17	4531.71	-3012.50	3524.88	1779663.46	434690.14	39°41'29.451"N	80°10'15.815"W	4636.80	130.519	0.78	0.59	0.52
12971.00	89.850	145.790	8209.36	4625.66	-3088.99	3579.50	1779718.09	434613.66	39°41'28.699"N	80°10'15.108"W	4728.07	130.793	2.82	-0.06	2.82
13065.00	89.880	146.730	8209.58	4719.48	-3167.15	3631.71	1779770.29	434535.50	39°41'27.931"N	80°10'14.433"W	4818.73	131.091	1.00	0.03	1.00
13160.00	89.480	146.770	8210.11	4814.25	-3246.60	3683.80	1779822.38	434456.06	39°41'27.149"N	80°10'13.759"W	4910.27	131.390	0.42	-0.42	0.04
13254.00	89.780	146.920	8210.72	4908.01	-3325.29	3735.21	1779873.78	434377.37	39°41'26.375"N	80°10'13.094"W	5000.94	131.677	0.36	0.32	0.16
13349.00	90.340	147.540	8210.62	5002.71	-3405.17	3786.63	1779925.20	434297.49	39°41'25.590"N	80°10'12.429"W	5092.52	131.964	0.88	0.59	0.65
13444.00	89.880	144.170	8210.44	5097.56	-3483.79	3839.94	1779978.51	434218.89	39°41'24.817"N	80°10'11.739"W	5184.78	132.216	3.58	-0.48	-3.55
13538.00	90.060	142.990	8210.49	5191.55	-3559.42	3895.75	1780034.31	434143.25	39°41'24.073"N	80°10'11.018"W	5276.97	132.417	1.27	0.19	-1.26
13633.00	90.180	141.890	8210.29	5286.54	-3634.73	3953.66	1780092.22	434067.95	39°41'23.333"N	80°10'10.270"W	5370.54	132.593	1.16	0.13	-1.16
13728.00	89.350	142.310	8210.68	5381.54	-3709.69	4012.02	1780150.57	433992.99	39°41'22.597"N	80°10'09.517"W	5464.26	132.758	0.98	-0.87	0.44
13822.00	90.000	142.620	8211.21	5475.53	-3784.23	4069.28	1780207.84	433918.46	39°41'21.864"N	80°10'08.777"W	5556.93	132.921	0.77	0.69	0.33
13917.00	90.520	141.630	8210.78	5570.53	-3859.22	4127.61	1780266.16	433843.48	39°41'21.128"N	80°10'08.024"W	5650.73	133.075	1.18	0.55	-1.04
14011.00	90.550	142.710	8209.90	5664.52	-3933.46	4185.26	1780323.80	433769.24	39°41'20.398"N	80°10'07.279"W	5743.56	133.224	1.15	0.03	1.15
14105.00	90.830	144.820	8208.77	5758.49	-4009.27	4240.81	1780379.35	433693.43	39°41'19.653"N	80°10'06.561"W	5835.98	133.392	2.26	0.30	2.24
14200.00	90.460	143.480	8207.70	5853.45	-4086.26	4296.44	1780434.98	433616.44	39°41'18.896"N	80°10'05.843"W	5929.33	133.564	1.46	-0.39	-1.41
14294.00	91.660	144.100	8205.96	5947.42	-4162.09	4351.96	1780490.50	433540.62	39°41'18.151"N	80°10'05.125"W	6021.84	133.722	1.44	1.28	0.66
14389.00	91.050	143.850	8203.72	6042.37	-4238.90	4407.82	1780546.35	433463.81	39°41'17.396"N	80°10'04.403"W	6115.32	133.881	0.69	-0.64	-0.26



Actual Wellpath Report

Campbell 6H AWP Proj: 15958'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWP
Facility	Campbell Pad		

WELLPATH DATA (168 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
14484.00	90.980	143.810	8202.03	6137.34	-4315.58	4463.88	1780602.41	433387.14	39°41'16.642"N	80°10'03.679"W	6208.90	134.032	0.08	-0.07	-0.04
14578.00	91.110	144.720	8200.32	6231.29	-4391.87	4518.77	1780657.30	433510.85	39°41'15.892"N	80°10'02.970"W	6301.41	134.184	0.98	0.14	0.97
14673.00	89.050	146.340	8200.19	6326.17	-4470.18	4572.53	1780711.06	433232.55	39°41'15.122"N	80°10'02.274"W	6394.58	134.352	2.76	-2.17	1.71
14767.00	90.000	144.670	8200.97	6420.05	-4547.65	4625.76	1780764.28	433155.08	39°41'14.361"N	80°10'01.586"W	6486.82	134.512	2.04	1.01	-1.78
14862.00	91.200	141.820	8199.97	6515.05	-4623.75	4682.60	1780821.12	433078.99	39°41'13.613"N	80°10'00.852"W	6580.72	134.638	3.25	1.26	-3.00
14956.00	91.600	142.180	8197.67	6608.99	-4697.80	4740.46	1780878.97	433004.94	39°41'12.885"N	80°10'00.105"W	6673.92	134.741	0.57	0.43	0.38
15051.00	92.000	142.370	8194.69	6703.94	-4772.91	4798.55	1780937.06	432929.84	39°41'12.147"N	80°09'59.355"W	6768.07	134.846	0.47	0.42	0.20
15145.00	92.400	140.730	8191.08	6797.85	-4846.47	4856.96	1780995.47	432856.29	39°41'11.425"N	80°09'58.601"W	6861.36	134.938	1.79	0.43	-1.74
15240.00	92.980	140.400	8186.62	6892.67	-4919.76	4917.24	1781055.74	432783.00	39°41'10.705"N	80°09'57.823"W	6955.81	135.015	0.70	0.61	-0.35
15335.00	91.880	138.900	8182.60	6987.45	-4992.09	4978.69	1781117.19	432710.67	39°41'09.994"N	80°09'57.030"W	7050.41	135.077	1.96	-1.16	-1.58
15429.00	91.450	140.130	8179.86	7081.26	-5063.55	5039.69	1781178.19	432639.22	39°41'09.293"N	80°09'56.243"W	7144.09	135.135	1.39	-0.46	1.31
15523.00	91.540	140.100	8177.41	7175.13	-5135.66	5099.95	1781238.44	432567.11	39°41'08.585"N	80°09'55.465"W	7237.71	135.200	0.10	0.10	-0.03
15618.00	92.830	140.730	8173.79	7269.98	-5208.81	5160.44	1781298.93	432493.96	39°41'07.866"N	80°09'54.685"W	7332.25	135.267	1.51	1.36	0.66
15713.00	92.190	141.970	8169.63	7364.85	-5282.93	5219.71	1781358.20	432419.84	39°41'07.138"N	80°09'53.919"W	7426.63	135.345	1.47	-0.67	1.31
15807.00	92.310	144.250	8165.94	7458.77	-5358.05	5276.09	1781414.57	432344.73	39°41'06.400"N	80°09'53.191"W	7519.70	135.442	2.43	0.13	2.43
15901.00	92.550	144.400	8161.95	7552.65	-5434.34	5330.86	1781469.34	432268.45	39°41'05.650"N	80°09'52.483"W	7612.50	135.551	0.30	0.26	0.16
15933.00	92.680	145.240	8160.49	7584.60	-5460.47	5349.28	1781487.76	432242.32	39°41'05.393"N	80°09'52.245"W	7644.05	135.589	2.65	0.41	2.62
15958.00	92.680	145.240	8159.32	7609.55	-5480.99	5363.52	1781501.99	432221.80	39°41'05.191"N	80°09'52.061"W	7668.67	135.621	0.00	0.00	0.00

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Campbell 6H AWB Ref Wellpath: Campbell 6H AWP Proj: 15958'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
28in Open Hole	32.00	82.00	50.00	32.00	82.00	0.00	0.00	-0.13	0.02
24in Conductor	32.00	82.00	50.00	32.00	82.00	0.00	0.00	-0.13	0.02
17.5in Open Hole	82.00	1322.00	1240.00	82.00	1321.96	-0.13	0.02	-7.87	3.94
13.375in Casing Surface	32.00	1299.00	1267.00	32.00	1298.96	0.00	0.00	-7.80	3.80
12.25in Open Hole	1322.00	2457.00	1135.00	1321.96	2456.61	-7.87	3.94	-25.34	24.43
9.625in Casing Intermediate	32.00	2415.00	2383.00	32.00	2414.63	0.00	0.00	-24.35	23.44

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Campbell 6H Pt1		8108.00	-4385.93	4309.51	1780448.05	433316.80	39°41'15.936"N	80°10'05.647"W	point
Campbell 6H Pt2		8108.00	-4432.91	4500.80	1780639.33	433269.82	39°41'15.486"N	80°10'03.196"W	point
Campbell 6H Pt3		8108.00	-4636.56	4436.77	1780575.30	433066.18	39°41'13.468"N	80°10'03.995"W	point
Campbell 6H Pt4		8108.00	-4125.06	4771.17	1780909.68	433577.65	39°41'18.548"N	80°09'59.766"W	point
Campbell 6H Pt5		8108.00	-5189.18	5639.07	1781777.53	432513.59	39°41'08.095"N	80°09'48.564"W	point
Campbell 6H Pt6		8108.00	-5828.49	5182.18	1781320.67	431874.32	39°41'01.744"N	80°09'54.348"W	point
Campbell 6H BHL Rev-6		8121.00	-5484.00	5363.06	1781501.54	432218.79	39°41'05.161"N	80°09'52.067"W	point
Campbell 6H LP Rev-6		8121.00	173.00	1060.48	1777199.22	437875.45	39°42'00.749"N	80°10'47.647"W	point

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

WELLPATH COMPOSITION - Ref Wellbore: Campbell 6H AWB Ref Wellpath: Campbell 6H AWP Proj: 15958'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.00	6836.00	Generic gyro - northseeking (Standard)	01 VES Gyro <8-3/4"> (100'-6818')	Campbell 6H AWB
6836.00	15933.00	NaviTrak (AT Curve Short Spaced)	03 BHI AT Curve <8-1/2"> (6836')(6950'-15933')	Campbell 6H AWB
15933.00	15958.00	Blind Drilling (std)	Projection to bit	Campbell 6H AWB



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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Slot	Slot 06
Area	Monongalia County, WV	Well	Campbell 6H
Field	Monongalia	Wellbore	Campbell 6H AWB
Facility	Campbell Pad		

COMMENTS

Wellpath general comments
API: 47-061-01700-0000
BHI Job #: 7733503
Rig: Nabors X08
Duration: 1/13/2016-1/21/2016
VES Gyro <8-3/4"> (100'-6818')
BHI AT Curve <8-1/2"> (6836')(6950'-15933')
Projected MD at TD: 15958'