

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 061 - 01895 County Monongalia District Clay
Quad Blacksville Pad Name Yost Field/Pool Name _____
Farm name Yost Heritage, Inc. Well Number Yost 10H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. E., Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4388292.3 Easting 567087.7
Landing Point of Curve Northing 4388106.1 Easting 567249.0
Bottom Hole Northing 4385228.3 Easting 569330.9

Elevation (ft) 1,492' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Synthetic Based Mud - Horizontal Section: BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-SEAL PLUS, HRP, LIME, M-I WATE (BARITE),
M-I-X II MEDIUM, MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 12/1/2021 Date drilling commenced 3/1/2022 Date drilling ceased 5/15/2022
Date completion activities began 7/28/2022 Date completion activities ceased 8/20/2022
Verbal plugging (Y/N) N Date permission granted NA Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 180', 480', 1,378' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2,410' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 775', 930', 1,115' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

02/23/2024

Yost 14H Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
1	7/27/2022	4,542	0	9,359	84	479	8,240	300,200	725
2	7/28/2022	5,116	6,322	8,953	90	37	9,021	458,211	432
3	7/28/2022	5,257	6,314	8,892	90	59	9,529	455,500	588
4	7/29/2022	5,204	6,168	8,869	91	6	9,400	454,780	489
5	7/29/2022	5,754	6,725	8,950	92	45	9,283	457,108	445
6	7/29/2022	5,382	8,354	8,691	87	471	8,691	454,960	463
7	7/30/2022	5,696	6,617	8,929	92	41	9,381	454,586	425
8	7/30/2022	5,587	6,919	8,754	91	13	9,267	455,370	438
9	7/31/2022	5,458	6,914	8,934	92	37	9,405	455,360	435
10	8/1/2022	5,461	6,938	8,811	92	31	9,275	455,546	434
11	8/1/2022	6,161	6,946	8,940	92	13	9,116	455,360	400
12	8/1/2022	6,200	7,035	9,099	91	39	9,618	456,220	439
13	8/2/2022	6,293	8,068	9,226	92	42	9,310	455,214	395
14	8/2/2022	6,486	7,343	9,056	91	26	9,206	455,140	451
15	8/3/2022	5,533	7,826	9,289	91	22	9,469	455,400	423
16	8/3/2022	5,879	7,092	9,048	92	47	9,266	460,062	380
17	8/3/2022	5,227	6,608	9,195	91	25	9,964	456,060	379
18	8/4/2022	5,842	6,934	9,128	92	30	9,294	456,072	365
19	8/4/2022	5,273	7,081	9,296	92	46	9,277	451,137	370
20	8/5/2022	5,670	7,674	9,224	91	62	9,355	456,400	412
21	8/5/2022	5,405	7,375	9,179	92	70	9,326	461,958	360
22	8/5/2022	5,634	6,602	8,989	92	51	9,033	455,656	350
23	8/5/2022	5,375	6,900	8,853	91	66	9,423	453,360	394
24	8/6/2022	5,550	7,035	8,862	92	14	9,263	455,735	345
25	8/6/2022	5,895	8,011	8,809	92	40	9,089	455,067	342
26	8/6/2022	5,539	6,777	8,728	92	18	9,293	455,720	404
27	8/7/2022	5,787	7,460	8,724	92	27	9,029	455,289	395
28	8/7/2022	5,638	6,640	8,723	92	46	9,003	455,318	393
29	8/8/2022	5,869	6,858	8,658	92	23	9,279	455,840	402
30	8/8/2022	5,966	6,753	8,785	91	33	9,186	457,202	372
31	8/8/2022	5,787	6,728	8,656	91	17	10,146	455,277	344
32	8/9/2022	5,346	7,084	8,749	92	13	9,098	456,540	382
33	8/9/2022	5,627	5,159	8,481	92	134	9,218	455,560	301
34	8/9/2022	5,413	6,449	8,260	92	21	9,160	457,860	301
35	8/9/2022	6,085	6,865	8,365	94	13	9,058	457,020	349
36	8/10/2022	5,537	6,668	8,260	94	67	9,040	456,000	304
37	8/10/2022	5,630	6,439	8,312	93	40	9,200	455,020	303
38	8/10/2022	5,698	6,575	8,485	94	2	9,004	453,860	320
39	8/11/2022	5,491	7,180	8,445	94	34	9,261	455,220	338
40	8/11/2022	5,681	7,657	8,319	92	30	8,975	455,640	326
41	8/12/2022	5,949	7,011	8,451	94	34	9,156	457,100	318
42	8/12/2022	5,715	7,279	8,275	94	242	9,315	456,260	323
43	8/13/2022	5,406	6,817	8,078	94	13	9,150	456,920	311
44	8/13/2022	5,324	7,037	8,040	93	36	9,239	455,380	296
45	8/13/2022	5,508	6,984	8,568	94	38	9,121	455,700	284

02/23/2024

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
46	8/14/2022	5,186	6,941	8,308	94	19	9,201	454,100	309
47	8/14/2022	5,934	6,421	8,253	93	48	9,243	455,770	275
48	8/14/2022	5,126	6,609	8,191	93	611	8,926	456,200	268
49	8/14/2022	4,948	6,513	7,832	91	6	9,513	457,020	310
50	8/15/2022	5,381	7,029	8,078	94	14	9,271	459,200	290
51	8/15/2022	5,099	6,991	8,090	94	37	9,077	455,540	229
52	8/15/2022	5,254	6,566	7,775	93	49	8,865	455,460	278
53	8/16/2022	5,037	6,622	7,891	94	19	9,309	455,200	281
54	8/16/2022	5,626	6,383	7,857	94	38	9,044	456,300	235
55	8/16/2022	5,898	6,155	7,811	94	34	9,199	455,524	258
56	8/17/2022	5,179	6,982	7,847	94	10	9,121	459,038	285

02/23/2024

Yost 14H
Perforation Report

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	7/27/2022	0	0	19,680
2	7/28/2022	40	19,638	19,479
3	7/28/2022	40	19,437	19,279
4	7/29/2022	40	19,237	19,078
5	7/29/2022	40	19,036	18,878
6	7/29/2022	40	18,835	18,677
7	7/30/2022	40	18,635	18,677
8	7/30/2022	40	18,434	18,276
9	7/31/2022	40	18,234	18,075
10	8/1/2022	40	18,033	17,875
11	8/1/2022	40	17,833	17,674
12	8/1/2022	40	17,632	17,474
13	8/2/2022	40	17,431	17,273
14	8/2/2022	40	17,231	17,072
15	8/3/2022	40	17,030	16,872
16	8/3/2022	40	16,830	16,671
17	8/3/2022	40	16,629	16,471
18	8/4/2022	40	16,429	16,270
19	8/4/2022	40	16,228	16,069
20	8/5/2022	40	16,027	15,869
21	8/5/2022	40	15,827	15,668
22	8/5/2022	40	15,626	15,468
23	8/5/2022	40	15,426	15,267
24	8/6/2022	40	15,225	15,067
25	8/6/2022	40	15,024	14,866
26	8/6/2022	40	14,824	14,665
27	8/7/2022	40	14,623	14,465
28	8/7/2022	40	14,423	14,264
29	8/8/2022	40	14,222	14,064
30	8/8/2022	40	14,022	13,863
31	8/8/2022	40	13,821	13,662
32	8/9/2022	40	13,620	13,462
33	8/9/2022	40	13,420	13,261
34	8/9/2022	40	13,219	13,061
35	8/9/2022	40	13,019	12,860
36	8/10/2022	40	12,818	12,660
37	8/10/2022	40	12,617	12,459
38	8/10/2022	40	12,417	12,258
39	8/11/2022	40	12,216	12,058
40	8/11/2022	40	12,016	11,857
41	8/12/2022	40	11,815	11,657
42	8/12/2022	40	11,615	11,456
43	8/13/2022	40	11,414	11,256
44	8/13/2022	40	11,213	11,055
45	8/13/2022	40	11,013	10,854

02/23/2024

Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Shale/Sand	0	120	Shale/Sand
Shale/sand/silt	120	390	Shale/sand/silt with water @ 180'
sand/shale	390	510	sand/shale with water @ 480'
sandstone/siltstone	510	775	sandstone/siltstone
coal	775	780	coal
sandstone/limestone	780	930	sandstone/limestone
coal	930	940	coal
sandstone/limestone	940	1020	sandstone/limestone
Limestone	1020	1050	Limestone
Limestone/siltstone	1050	1110	Limestone/siltstone
coal	1110	1115	coal
Limestone	1115	1140	Limestone
Limestone/sandstone/shale	1140	1260	Limestone/sandstone/shale
red shale/siltstone	1260	1440	red shale/siltstone with water @ 1378'
sandstone/siltstone	1440	1680	sandstone/siltstone
sandstone/siltstone/lime	1680	2310	sandstone/siltstone/lime
Big Lime	2310	2400	Big Lime
Big Injun	2400	2580	Big Injun
siltstone	2580	2620	siltstone
Gantz	2620	2680	Gantz
siltstone	2680	3050	siltstone
Sandstone	3050	3180	Sandstone
Upper Devonian undifferentiated	3180	6000	Upper Devonian undifferentiated
siltstone/shale/gray shale	6000	6450	siltstone/shale/gray shale
Devonian silt/sand/shale	6450	7550	Devonian silt/sand/shale
Middlesex	7550	7770	Middlesex
Burkett	7770	7960	Burkett
Geneseo	7960	8011	Geneseo
Tully	8011	8062	Tully
Hamilton	8062	8176	Hamilton
Marcellus	8176	8176	Marcellus
		TD	

NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot 14
 Well: Yost 14H
 Wellbore: Yost 14H PWB

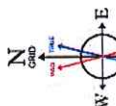
Well Information		Location Information	
Well Name	Yost 14H	Grid East (US Ft)	416694.100
Well ID	19829	Grid North (US Ft)	397303.277N
Well Type	Production	Local E (ft)	7401.94
Well Status	Active	Local N (ft)	891.63
Well Depth	11995.92ft	Grid East (US Ft)	416692.210
Well Completion	01_Gyro Surveys [BH Generic Gyro-Northseeking] [50-1300']	Grid North (US Ft)	397303.546FN
Well Completion	02_SDI MWD [OWSG MWD Rev.2+HRGM] [1300']	Zone	20ft
Well Completion	03_ATK Curve [HRGM+Short Spacing] [7493']	Mean Sea Level to Ground level (At Slot Slot 14)	-4.62ft
Well Completion	03_ATK Curve [HRGM+Short Spacing] [7493']	Mean Sea Level to Mean Sea Level	1502ft



01_Gyro Surveys [BH Generic Gyro-Northseeking] [50-1300'] : 0.19° Inc, 50.00ft TVD, 50.00ft TVD, -0.01ft VS

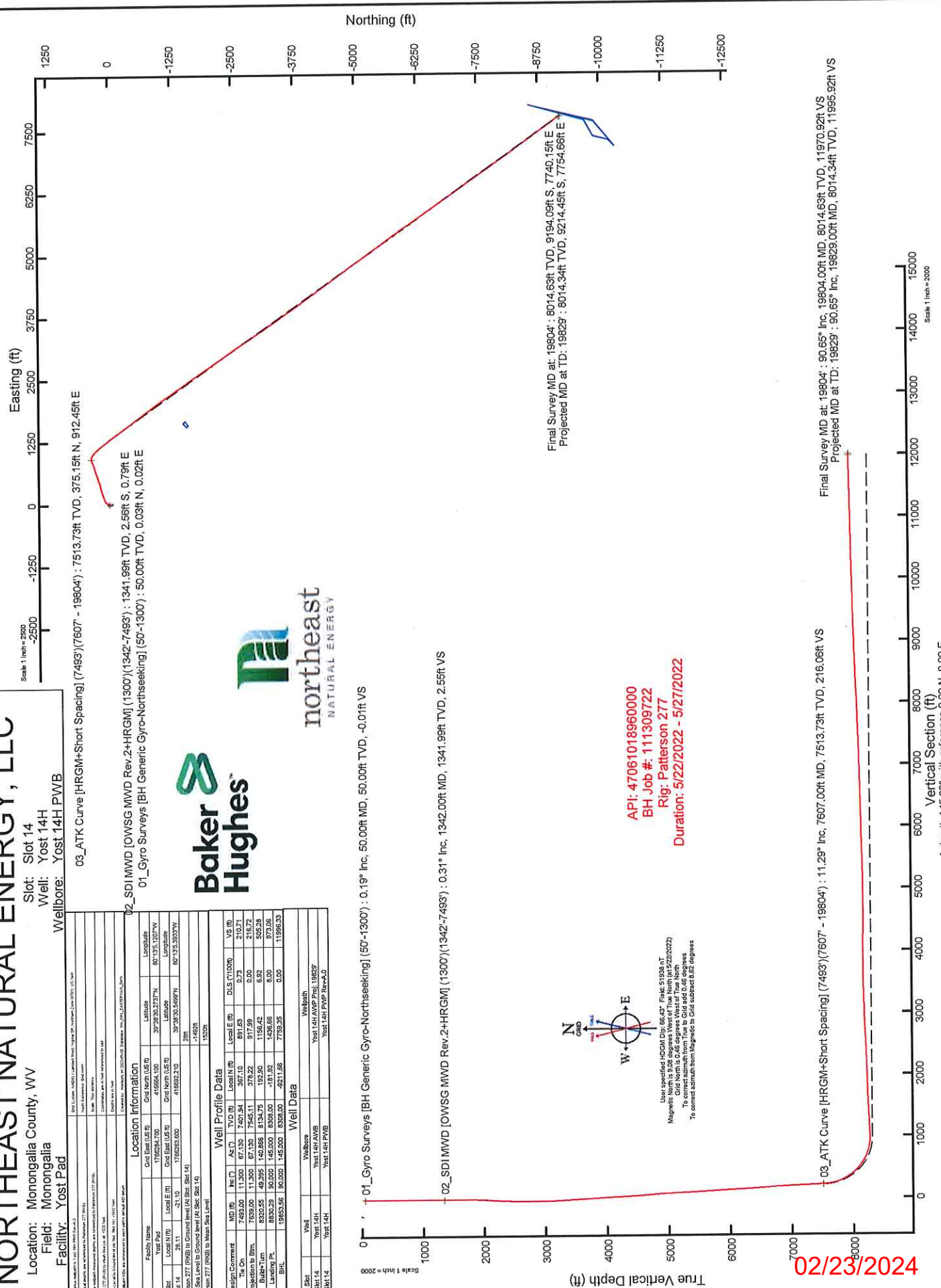
02_SDI MWD [OWSG MWD Rev.2+HRGM] [1300'] : 0.31° Inc, 1342.00ft MD, 1341.99ft TVD, 2.55ft VS

03_ATK Curve [HRGM+Short Spacing] [7493'] : 11.29° Inc, 7607.00ft MD, 7513.73ft TVD, 216.06ft VS



Line specified HCGM Dip: 66.47° Fixed 51938 DT
 Magnetic North is 0.08 degrees West of True North (at 5/22/2022)
 Grid North is 0.08 degrees West of True North
 To correct azimuth from Magnetic to Grid subtract 0.02 degrees

API: 47061018960000
 BH Job #: 111309722
 Rig: Patterson 277
 Duration: 5/22/2022 - 5/27/2022



Final Survey MD at: 19804' : 8014.63ft TVD, 9194.09ft S, 7740.16ft E
 Projected MD at TD: 19829' : 8014.34ft TVD, 9214.45ft S, 7754.66ft E

Final Survey MD at: 19804' : 90.65° Inc, 19804.00ft MD, 8014.63ft TVD, 11970.92ft VS
 Projected MD at TD: 19829' : 90.65° Inc, 19829.00ft MD, 8014.34ft TVD, 11995.92ft VS

Vertical Section (ft)
 Azimuth: 145.00° with reference 0.00 N, 0.00 E

02/25/2024

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect@ 6.0
North Reference	Grid	User	Manajohj
Scale	0.999941	Report Generated	5/30/2022 at 4:51:47 PM
Convergence at slot	0.46° 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	28.11	-21.10	1766263.60	416692.21	39°38'30.5499"N	80°13'5.3933"W
Facility Reference Pt			1766284.70	416664.10	39°38'30.2737"N	80°13'5.1207"W
Field Reference Pt			1777685.71	440640.65	39°42'28.1140"N	80°10'41.6900"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 277 (RKB) to Facility Vertical Datum	1520.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1520.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot 14)	28.00ft
MD Reference Pt	Patterson 277 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	145.00°

Actual Wellpath Report

Yost 14H AWP Proj: 19829'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

WELLPATH DATA (223 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†	0.000	33.600	0.00	0.00	0.00	0.00	1766263.60	416692.21	39°38'30.5499"N	80°13'5.3933"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	33.600	28.00	0.00	0.00	0.00	1766263.60	416692.21	39°38'30.5499"N	80°13'5.3933"W	0.00	0.000	0.00	0.00	0.00
50.00	0.190	33.600	50.00	-0.01	0.03	0.02	1766263.62	416692.24	39°38'30.5502"N	80°13'5.3931"W	0.04	33.600	0.86	0.86	0.00
100.00	0.260	139.500	100.00	0.07	0.01	0.14	1766263.74	416692.22	39°38'30.5500"N	80°13'5.3916"W	0.14	84.616	0.72	0.14	211.80
150.00	0.160	66.400	150.00	0.20	-0.05	0.28	1766263.88	416692.16	39°38'30.5494"N	80°13'5.3898"W	0.28	99.244	0.53	-0.20	-146.20
200.00	0.160	13.700	200.00	0.16	0.05	0.36	1766263.96	416692.26	39°38'30.5504"N	80°13'5.3888"W	0.36	81.948	0.28	0.00	-105.40
250.00	0.430	188.600	250.00	0.25	-0.07	0.35	1766263.95	416692.14	39°38'30.5492"N	80°13'5.3889"W	0.35	100.956	1.18	0.54	349.80
300.00	0.330	218.900	300.00	0.43	-0.36	0.23	1766263.83	416691.85	39°38'30.5463"N	80°13'5.3904"W	0.43	147.993	0.44	-0.20	60.60
350.00	0.410	177.900	350.00	0.62	-0.66	0.14	1766263.74	416691.55	39°38'30.5434"N	80°13'5.3914"W	0.67	167.606	0.54	0.16	-82.00
400.00	0.310	198.200	400.00	0.85	-0.90	0.11	1766263.71	416691.25	39°38'30.5404"N	80°13'5.3919"W	0.97	173.579	0.32	-0.20	40.60
450.00	0.260	94.900	450.00	1.00	-1.10	0.18	1766263.78	416691.11	39°38'30.5390"N	80°13'5.3909"W	1.12	170.758	0.90	-0.10	-206.60
500.00	0.290	175.700	500.00	1.19	-1.24	0.30	1766263.90	416690.97	39°38'30.5377"N	80°13'5.3894"W	1.27	166.293	0.71	0.06	161.60
550.00	0.200	239.800	549.99	1.29	-1.41	0.24	1766263.84	416690.80	39°38'30.5360"N	80°13'5.3902"W	1.43	170.489	0.54	-0.18	128.20
600.00	0.260	244.300	599.99	1.26	-1.50	0.06	1766263.66	416690.71	39°38'30.5350"N	80°13'5.3924"W	1.50	177.783	0.13	0.12	9.00
650.00	0.200	57.400	649.99	1.25	-1.50	0.03	1766263.63	416690.71	39°38'30.5350"N	80°13'5.3928"W	1.50	178.880	0.92	-0.12	346.20
700.00	0.220	325.900	699.99	1.15	-1.38	0.05	1766263.65	416690.83	39°38'30.5363"N	80°13'5.3926"W	1.38	177.957	0.60	0.04	-183.00
750.00	0.310	143.400	749.99	1.19	-1.40	0.08	1766263.68	416690.81	39°38'30.5360"N	80°13'5.3922"W	1.41	176.907	1.06	0.18	355.00
800.00	0.200	46.900	799.99	1.32	-1.45	0.22	1766263.82	416690.76	39°38'30.5355"N	80°13'5.3904"W	1.47	171.384	0.77	-0.22	-193.00
850.00	0.180	337.300	849.99	1.23	-1.32	0.25	1766263.85	416690.89	39°38'30.5368"N	80°13'5.3900"W	1.35	169.135	0.43	-0.04	-139.20
900.00	0.230	208.100	899.99	1.20	-1.34	0.18	1766263.78	416690.87	39°38'30.5367"N	80°13'5.3909"W	1.35	172.501	0.74	0.10	-258.40
950.00	0.230	252.200	949.99	1.21	-1.46	0.03	1766263.63	416690.75	39°38'30.5355"N	80°13'5.3928"W	1.46	178.692	0.35	0.00	88.20
1000.00	0.360	126.500	999.99	1.33	-1.58	0.06	1766263.66	416690.63	39°38'30.5342"N	80°13'5.3924"W	1.58	177.682	1.06	0.26	-251.40
1050.00	0.220	353.400	1049.99	1.40	-1.58	0.18	1766263.78	416690.63	39°38'30.5343"N	80°13'5.3909"W	1.59	173.525	1.07	-0.28	-266.20
1100.00	0.140	63.400	1099.99	1.32	-1.46	0.22	1766263.82	416690.75	39°38'30.5355"N	80°13'5.3903"W	1.47	171.302	0.43	-0.16	140.00
1150.00	0.310	186.800	1149.99	1.43	-1.56	0.26	1766263.86	416690.65	39°38'30.5344"N	80°13'5.3898"W	1.59	170.507	0.81	0.34	246.80
1200.00	0.420	149.800	1199.99	1.71	-1.86	0.34	1766263.94	416690.35	39°38'30.5315"N	80°13'5.3888"W	1.89	169.691	0.51	0.22	-74.00
1250.00	0.420	147.700	1249.99	2.08	-2.17	0.53	1766264.13	416690.04	39°38'30.5285"N	80°13'5.3864"W	2.23	166.328	0.03	0.00	-4.20
1300.00	0.340	123.100	1299.99	2.40	-2.41	0.75	1766264.35	416689.80	39°38'30.5262"N	80°13'5.3835"W	2.52	162.684	0.36	-0.16	-49.20
1350.00	0.310	216.800	1341.99	2.55	-2.56	0.79	1766264.39	416689.65	39°38'30.5246"N	80°13'5.3830"W	2.68	162.954	1.13	-0.07	223.10
1400.00	0.230	204.660	1496.99	2.84	-3.18	0.41	1766264.01	416689.03	39°38'30.5184"N	80°13'5.3878"W	3.21	172.744	0.06	-0.05	-7.83

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

WELLPATH DATA (223 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]
1591.00	0.380	96.750	1590.99	3.14	-3.39	0.64	1766284.24	416688.82	39°38'30.5164"N	80°13'5.3849"W	3.45	169.376	0.53	0.16	-114.80
1686.00	0.370	65.370	1685.98	3.41	-3.30	1.23	1766284.83	416688.91	39°38'30.5173"N	80°13'5.3773"W	3.52	159.593	0.21	-0.01	-33.03
1781.00	3.980	40.890	1780.90	2.66	-0.68	3.67	1766267.27	416691.53	39°38'30.5434"N	80°13'5.3464"W	3.73	100.494	3.84	3.80	-25.77
1876.00	5.920	37.890	1875.54	0.41	5.68	8.83	1766272.43	416697.89	39°38'30.6067"N	80°13'5.2810"W	10.50	57.256	2.06	2.04	-3.16
1970.00	7.720	32.970	1968.87	-3.38	14.80	15.25	1766278.85	416707.01	39°38'30.6974"N	80°13'5.2000"W	21.25	45.845	2.01	1.91	-5.23
2065.00	8.320	30.250	2062.94	-8.65	26.09	22.18	1766285.78	416718.30	39°38'30.8095"N	80°13'5.1125"W	34.25	40.366	0.75	0.63	-2.86
2159.00	7.700	29.090	2156.03	-14.25	37.47	28.67	1766292.27	416729.68	39°38'30.9225"N	80°13'5.0307"W	47.18	37.419	0.68	-0.66	-1.23
2254.00	6.700	28.790	2250.28	-19.48	47.89	34.43	1766298.03	416740.10	39°38'31.0259"N	80°13'4.9581"W	58.98	35.716	1.05	-1.05	-0.32
2349.00	5.090	29.090	2344.77	-23.77	56.43	39.15	1766302.75	416748.64	39°38'31.1106"N	80°13'4.8986"W	68.68	34.752	1.70	-1.69	0.32
2444.00	4.390	33.600	2439.45	-26.94	63.14	48.21	1766306.81	416755.35	39°38'31.1773"N	80°13'4.8474"W	76.51	34.386	0.83	-0.74	4.75
2538.00	2.880	45.260	2533.25	-28.65	67.80	46.88	1766310.48	416760.01	39°38'31.2236"N	80°13'4.8010"W	82.43	34.662	1.78	-1.61	12.40
2741.00	3.810	42.160	2735.91	-31.01	76.39	55.03	1766318.63	416768.60	39°38'31.3092"N	80°13'4.6977"W	94.15	35.768	0.47	0.46	-1.53
2835.00	5.390	45.220	2829.60	-32.46	81.82	60.26	1766323.86	416774.02	39°38'31.3632"N	80°13'4.6314"W	101.61	36.373	1.70	1.68	3.26
2930.00	7.070	52.950	2924.04	-33.42	88.48	68.09	1766331.69	416780.69	39°38'31.4297"N	80°13'4.5319"W	111.65	37.581	1.97	1.77	8.14
3025.00	8.720	62.520	3018.14	-32.69	95.33	79.15	1766342.75	416787.53	39°38'31.4982"N	80°13'4.3913"W	123.90	39.703	2.21	1.74	10.07
3119.00	10.080	68.800	3110.88	-29.79	101.59	93.14	1766356.74	416793.80	39°38'31.5612"N	80°13'4.2131"W	137.83	42.516	1.81	1.45	6.68
3213.00	11.710	68.780	3203.18	-25.56	108.02	109.71	1766373.30	416800.22	39°38'31.6260"N	80°13'4.0020"W	153.96	45.444	1.73	1.73	-0.02
3307.00	12.780	70.470	3295.04	-20.51	114.95	128.40	1766391.99	416807.15	39°38'31.6960"N	80°13'3.7638"W	172.33	48.163	1.20	1.14	1.80
3402.00	13.270	71.510	3387.60	-14.61	121.92	148.64	1766412.23	416814.12	39°38'31.7665"N	80°13'3.5058"W	192.24	50.641	0.57	0.52	1.09
3497.00	13.180	67.060	3480.08	-9.25	129.60	168.95	1766432.54	416821.80	39°38'31.8440"N	80°13'3.2469"W	212.93	52.510	1.08	-0.09	-4.68
3592.00	11.840	69.470	3572.82	-4.55	137.24	188.06	1766451.65	416829.44	39°38'31.9210"N	80°13'3.0035"W	232.81	53.879	1.51	-1.41	2.54
3687.00	11.130	70.790	3665.92	0.38	143.67	205.84	1766469.43	416835.87	39°38'31.9860"N	80°13'2.7768"W	251.02	55.086	0.80	-0.75	1.39
3782.00	11.220	73.660	3759.12	5.83	149.29	223.37	1766486.96	416841.49	39°38'32.0429"N	80°13'2.5633"W	268.67	56.243	0.59	0.09	3.02
3880.00	10.670	74.600	3855.34	11.92	154.38	241.27	1766504.85	416846.58	39°38'32.0946"N	80°13'2.3251"W	286.43	57.386	0.59	-0.56	0.96
3975.00	10.340	75.820	3948.74	17.90	158.81	258.01	1766521.60	416851.01	39°38'32.1396"N	80°13'2.1115"W	302.97	58.388	0.42	-0.35	1.28
4070.00	9.870	74.080	4042.27	23.60	163.13	274.11	1766537.69	416855.33	39°38'32.1836"N	80°13'1.9062"W	318.98	59.242	0.59	-0.49	-1.83
4165.00	9.810	70.330	4135.87	28.40	168.08	289.56	1766553.14	416860.28	39°38'32.2338"N	80°13'1.7092"W	334.81	59.865	0.68	-0.06	-3.95
4260.00	9.330	68.940	4228.56	32.35	173.52	304.21	1766567.79	416865.72	39°38'32.2887"N	80°13'1.5224"W	350.22	60.300	0.57	-0.51	-1.48
4355.00	8.740	72.950	4322.39	36.43	178.40	318.30	1766581.88	416870.60	39°38'32.3381"N	80°13'1.3428"W	364.88	60.730	0.91	-0.62	4.22
4450.00	8.960	73.570	4416.26	41.01	182.61	332.29	1766595.87	416874.81	39°38'32.3808"N	80°13'1.1644"W	379.16	61.209	0.25	0.23	0.65

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
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WELLPATH DATA (223 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]
4543.00	9.260	78.770	4509.07	46.39	186.15	346.73	1766610.31	416878.35	39°38'32.4169"N	80°13'0.9801"W	393.54	61.770	0.93	0.32	5.53
4637.00	10.310	83.480	4601.70	53.45	188.58	362.51	1766626.09	416880.78	39°38'32.4422"N	80°13'0.7787"W	408.63	62.516	1.40	1.12	5.01
4735.00	11.170	80.130	4697.99	61.66	191.21	380.57	1766644.15	416883.40	39°38'32.4695"N	80°13'0.5481"W	425.91	63.325	1.08	0.88	-3.42
4830.00	11.940	76.440	4791.06	69.16	195.09	399.19	1766662.77	416887.28	39°38'32.5093"N	80°13'0.3105"W	444.31	63.955	1.12	0.81	-3.88
4925.00	13.030	73.500	4883.82	76.15	200.43	419.02	1766682.59	416892.63	39°38'32.5637"N	80°13'0.0576"W	464.49	64.436	1.33	1.15	-3.09
5020.00	11.870	69.680	4976.58	82.03	206.87	438.45	1766702.02	416899.06	39°38'32.6289"N	80°12'59.8099"W	484.80	64.741	1.50	-1.22	-4.02
5115.00	11.860	67.730	5069.55	86.65	213.96	456.64	1766720.22	416906.16	39°38'32.7004"N	80°12'59.5780"W	504.28	64.895	0.42	-0.01	-2.05
5210.00	10.950	69.940	5162.68	91.13	220.75	474.15	1766737.73	416912.95	39°38'32.7689"N	80°12'59.3549"W	523.02	65.034	1.06	-0.96	2.33
5304.00	10.280	67.970	5255.07	95.32	226.96	490.32	1766753.89	416919.16	39°38'32.8315"N	80°12'59.1489"W	540.30	65.161	0.81	-0.71	-2.10
5399.00	9.670	70.820	5348.63	99.39	232.76	505.71	1766769.28	416924.96	39°38'32.8901"N	80°12'58.9527"W	556.71	65.285	0.83	-0.64	3.00
5494.00	9.870	71.730	5442.25	103.91	237.94	520.98	1766784.55	416930.13	39°38'32.9424"N	80°12'58.7581"W	572.74	65.453	0.27	0.21	0.96
5590.00	9.680	73.310	5536.86	108.82	242.84	536.52	1766800.09	416935.03	39°38'32.9920"N	80°12'58.5599"W	588.92	65.648	0.34	-0.20	1.65
5687.00	10.200	73.450	5632.40	114.10	247.62	552.57	1766816.13	416939.82	39°38'33.0406"N	80°12'58.3553"W	605.51	65.861	0.54	0.54	0.14
5783.00	10.900	71.930	5726.78	119.43	252.86	569.34	1766832.91	416945.05	39°38'33.0937"N	80°12'58.1414"W	622.97	66.053	0.78	0.73	-1.58
5877.00	10.980	73.030	5819.07	124.79	258.23	586.35	1766849.92	416950.42	39°38'33.1481"N	80°12'57.9245"W	640.70	66.231	0.24	0.09	1.17
5972.00	11.810	71.190	5912.20	130.30	264.01	604.21	1766867.77	416956.20	39°38'33.2066"N	80°12'57.6968"W	659.37	66.397	0.95	0.87	-1.94
6066.00	11.430	68.890	6004.27	135.22	270.46	622.00	1766885.57	416962.65	39°38'33.2718"N	80°12'57.4700"W	678.26	66.500	0.64	-0.40	-2.45
6161.00	10.830	68.880	6097.49	139.62	277.07	639.11	1766902.67	416969.26	39°38'33.3384"N	80°12'57.2520"W	696.58	66.562	0.63	-0.63	-0.01
6255.00	11.150	65.680	6189.76	143.42	283.99	655.63	1766919.19	416976.19	39°38'33.4082"N	80°12'57.0415"W	714.50	66.580	0.73	0.34	-3.40
6350.00	9.820	72.550	6283.18	147.57	290.21	671.73	1766935.29	416982.40	39°38'33.4708"N	80°12'56.8363"W	731.74	66.634	1.92	-1.40	7.23
6445.00	10.210	75.150	6376.73	152.91	294.79	687.60	1766951.16	416986.98	39°38'33.5174"N	80°12'56.6340"W	748.13	66.794	0.63	0.41	2.74
6544.00	10.940	78.040	6474.05	159.61	298.99	705.27	1766968.83	416991.18	39°38'33.5603"N	80°12'56.4085"W	766.03	67.026	0.91	0.74	2.92
6638.00	11.610	76.370	6566.23	166.55	303.07	723.19	1766986.75	416995.26	39°38'33.6020"N	80°12'56.1799"W	784.13	67.263	0.79	0.71	-1.78
6733.00	12.170	76.210	6659.20	173.65	307.71	742.21	1767005.76	416999.90	39°38'33.6493"N	80°12'55.9373"W	803.46	67.482	0.59	0.59	-0.17
6827.00	12.080	71.750	6751.10	180.07	313.15	761.17	1767024.72	417005.34	39°38'33.7046"N	80°12'55.6954"W	823.07	67.638	1.00	-0.10	-4.74
6922.00	12.220	70.180	6843.97	185.57	319.67	780.07	1767043.62	417011.86	39°38'33.7705"N	80°12'55.4545"W	843.03	67.716	0.38	0.15	-1.65
7016.00	12.280	68.910	6935.83	190.58	326.64	798.75	1767062.31	417018.83	39°38'33.8409"N	80°12'55.2164"W	862.96	67.759	0.29	0.06	-1.35
7111.00	12.490	66.630	7028.62	195.08	334.35	817.61	1767081.16	417026.54	39°38'33.9186"N	80°12'54.9761"W	883.33	67.759	0.56	0.22	-2.40
7206.00	12.450	67.150	7124.31	199.44	342.66	837.07	1767100.62	417034.84	39°38'34.0022"N	80°12'54.7282"W	904.49	67.738	0.12	-0.04	0.53
7301.00	12.790	65.710	7217.02	203.55	350.96	856.09	1767119.64	417043.15	39°38'34.0857"N	80°12'54.4859"W	925.24	67.709	0.49	0.36	-1.52

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Slot	Slot 14		

WELLPATH DATA (223 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]
7399.00	11.790	64.750	7309.84	207.15	359.42	874.46	1767138.00	417051.61	39°38'34.1709"N	80°12'54.2520"W	945.44	67.656	1.07	-1.05	-1.01
7493.00	11.300	67.130	7401.94	210.71	367.10	891.63	1767155.17	417059.29	39°38'34.2481"N	80°12'54.0333"W	964.24	67.622	0.73	-0.52	2.53
7607.00	11.290	70.610	7513.73	216.06	375.15	912.45	1767175.99	417067.33	39°38'34.3292"N	80°12'53.7680"W	986.56	67.650	0.60	-0.01	3.05
7702.00	13.440	89.310	7606.56	224.79	378.37	932.27	1767195.81	417070.55	39°38'34.3626"N	80°12'53.5149"W	1006.12	67.910	4.75	2.26	19.68
7797.00	16.490	109.720	7698.39	242.03	373.95	956.02	1767219.56	417066.13	39°38'34.3208"N	80°12'53.2108"W	1026.55	68.637	6.36	3.21	21.48
7891.00	22.990	124.060	7786.87	270.11	359.14	983.83	1767247.37	417051.33	39°38'34.1766"N	80°12'52.8538"W	1047.34	69.946	8.58	6.91	15.26
7987.00	29.990	127.850	7872.74	310.60	333.88	1018.36	1767281.89	417026.07	39°38'33.9298"N	80°12'52.4100"W	1071.69	71.847	7.50	7.29	3.95
8082.00	36.430	133.760	7952.20	361.02	299.76	1057.53	1767321.06	416991.95	39°38'33.5956"N	80°12'51.9058"W	1099.19	74.174	7.58	6.78	6.22
8176.00	43.310	136.180	8024.31	420.33	257.14	1100.06	1767363.53	416949.34	39°38'33.1778"N	80°12'51.3577"W	1129.72	76.843	7.50	7.32	2.57
8271.00	48.780	141.330	8090.25	488.26	205.68	1145.00	1767408.53	416897.88	39°38'32.6727"N	80°12'50.7781"W	1163.32	79.816	6.95	5.76	5.42
8365.00	56.400	142.680	8147.31	562.77	146.86	1190.89	1767454.42	416839.06	39°38'32.0950"N	80°12'50.1855"W	1199.91	82.970	8.19	8.11	1.44
8459.00	63.200	141.690	8194.57	643.86	82.73	1240.69	1767504.21	416774.94	39°38'31.4652"N	80°12'49.5424"W	1243.44	86.185	7.29	7.23	-1.05
8554.00	70.680	142.630	8231.76	731.10	13.74	1294.26	1767557.78	416705.95	39°38'30.7876"N	80°12'48.8507"W	1294.33	89.392	7.93	7.87	0.99
8649.00	78.090	144.190	8257.31	822.49	-59.68	1348.74	1767612.25	416632.53	39°38'30.0663"N	80°12'48.1468"W	1350.06	92.534	7.96	7.80	1.64
8744.00	84.520	144.820	8271.66	916.35	-136.10	1403.23	1767666.74	416556.12	39°38'29.3153"N	80°12'47.4425"W	1409.81	95.540	6.80	6.77	0.66
8837.00	93.290	143.690	8273.44	1009.23	-211.49	1457.49	1767721.01	416480.73	39°38'28.5745"N	80°12'46.7412"W	1472.76	98.256	9.51	9.43	-1.22
8932.00	92.900	144.280	8268.31	1104.07	-288.22	1513.27	1767776.78	416404.01	39°38'27.8206"N	80°12'46.0204"W	1540.48	100.784	0.74	-0.41	0.62
9027.00	93.020	144.100	8263.41	1198.94	-365.16	1568.78	1767832.29	416327.07	39°38'27.0646"N	80°12'45.3030"W	1610.72	103.103	0.23	-1.03	-0.19
9123.00	92.060	144.340	8259.15	1294.83	-442.96	1624.86	1767888.36	416249.27	39°38'26.3001"N	80°12'44.5784"W	1684.15	105.249	1.03	-1.00	0.25
9217.00	92.340	143.920	8255.54	1388.75	-519.08	1679.89	1767943.39	416173.16	39°38'25.5522"N	80°12'43.8672"W	1758.26	107.171	0.54	0.30	-0.45
9312.00	92.890	144.160	8251.21	1483.64	-595.90	1735.62	1767999.12	416096.35	39°38'24.7974"N	80°12'43.1470"W	1835.07	108.949	0.63	0.58	0.25
9406.00	92.400	142.280	8246.87	1577.49	-671.10	1791.84	1768055.33	416021.15	39°38'24.0586"N	80°12'42.4208"W	1913.39	110.532	2.06	-0.52	-2.00
9500.00	92.340	143.700	8242.98	1671.35	-746.10	1848.38	1768111.86	415946.16	39°38'23.3218"N	80°12'41.6906"W	1993.28	111.981	1.51	-0.06	1.51
9594.00	91.690	143.160	8239.68	1765.26	-821.54	1904.35	1768167.83	415870.72	39°38'22.5806"N	80°12'40.9675"W	2074.00	113.336	0.90	-0.69	-0.57
9689.00	91.600	143.780	8236.95	1860.18	-897.85	1960.87	1768224.35	415794.42	39°38'21.8309"N	80°12'40.2373"W	2156.65	114.602	0.66	-0.09	0.65
9783.00	91.290	144.810	8234.58	1954.14	-974.15	2015.71	1768279.19	415718.12	39°38'21.0811"N	80°12'39.5286"W	2238.76	115.794	1.14	-0.33	1.10
9878.00	91.630	145.520	8232.16	2049.11	-1052.10	2069.96	1768333.43	415640.17	39°38'20.3150"N	80°12'38.8273"W	2321.99	116.943	0.83	0.36	0.75
9973.00	91.850	145.550	8229.30	2143.06	-1129.57	2123.13	1768386.60	415562.71	39°38'19.5536"N	80°12'38.1398"W	2404.91	118.014	0.24	0.23	0.03
10068.00	91.880	145.690	8226.25	2237.01	-1207.11	2176.18	1768439.65	415485.18	39°38'18.7915"N	80°12'37.4539"W	2488.55	119.017	0.15	0.03	0.15
10163.00	92.280	146.170	8222.83	2330.93	-1284.92	2228.81	1768492.27	415407.37	39°38'18.0266"N	80°12'36.7733"W	2572.66	119.964	0.66	0.43	0.51

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

WELLPATH DATA (223 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]
10255.00	92.490	145.350	8218.88	2425.84	-1363.39	2282.21	1768545.67	415328.91	39°38'17.2553"N	80°12'36.0828"W	2658.44	120.854	0.89	0.22	-0.86
10349.00	92.490	145.430	8214.80	2519.75	-1440.68	2335.55	1768599.01	415251.62	39°38'16.4956"N	80°12'35.3932"W	2744.15	121.668	0.09	0.00	0.09
10444.00	92.460	145.640	8210.69	2614.66	-1518.93	2389.26	1768652.72	415173.37	39°38'15.7265"N	80°12'34.6987"W	2831.21	122.445	0.22	-0.03	0.22
10539.00	92.340	145.610	8206.72	2709.57	-1597.27	2442.85	1768706.30	415095.04	39°38'14.9565"N	80°12'34.0058"W	2918.70	123.179	0.13	-0.13	-0.03
10633.00	92.650	146.160	8202.62	2803.47	-1675.02	2495.52	1768758.97	415017.29	39°38'14.1922"N	80°12'33.3248"W	3005.55	123.870	0.67	0.33	0.59
10726.00	92.590	145.850	8198.37	2896.36	-1752.04	2547.47	1768810.91	414940.27	39°38'13.4350"N	80°12'32.6531"W	3091.80	124.519	0.34	-0.06	-0.33
10821.00	91.200	145.630	8195.23	2991.30	-1830.52	2600.92	1768864.36	414861.81	39°38'12.6637"N	80°12'31.9620"W	3180.50	125.138	1.48	-1.46	-0.23
10916.00	91.540	145.440	8192.96	3086.26	-1908.82	2654.66	1768918.10	414783.51	39°38'11.8941"N	80°12'31.2671"W	3269.68	125.718	0.41	0.36	-0.20
11011.00	91.820	146.560	8190.17	3181.21	-1987.54	2707.76	1768971.20	414704.79	39°38'11.1202"N	80°12'30.5805"W	3358.91	126.279	1.21	0.29	1.18
11104.00	91.260	145.720	8187.68	3274.15	-2064.74	2759.56	1769022.99	414627.60	39°38'10.3613"N	80°12'29.9106"W	3446.49	126.804	1.09	-0.60	-0.90
11199.00	91.570	145.270	8185.33	3369.12	-2143.00	2813.36	1769076.79	414549.34	39°38'9.5921"N	80°12'29.2151"W	3536.59	127.297	0.58	0.33	-0.47
11294.00	90.800	145.260	8183.37	3464.10	-2221.06	2867.47	1769130.90	414471.29	39°38'8.8249"N	80°12'28.5155"W	3627.05	127.760	0.81	-0.81	-0.01
11389.00	90.950	145.580	8181.91	3559.09	-2299.26	2921.39	1769184.81	414393.09	39°38'8.0562"N	80°12'27.8186"W	3717.68	128.204	0.37	0.16	0.34
11485.00	90.950	145.580	8180.32	3655.07	-2378.45	2975.64	1769239.06	414313.91	39°38'7.2779"N	80°12'27.1171"W	3809.39	128.636	0.00	0.00	0.00
11580.00	90.400	145.660	8179.20	3750.05	-2456.84	3029.28	1769292.70	414235.52	39°38'6.5073"N	80°12'26.4236"W	3900.34	129.043	0.59	-0.58	0.08
11675.00	89.850	145.470	8179.00	3845.05	-2535.20	3083.00	1769346.41	414157.17	39°38'5.7372"N	80°12'25.7291"W	3991.51	129.431	0.61	-0.58	-0.20
11771.00	89.540	145.870	8179.51	3941.04	-2614.47	3137.14	1769400.55	414077.90	39°38'4.9579"N	80°12'25.0292"W	4083.76	129.808	0.53	-0.32	0.42
11866.00	88.800	146.130	8180.88	4036.02	-2693.22	3190.26	1769453.66	413999.15	39°38'4.1638"N	80°12'24.3424"W	4175.07	130.171	0.83	-0.78	0.27
11961.00	89.540	148.980	8182.26	4130.90	-2773.38	3241.21	1769504.62	413919.00	39°38'3.3956"N	80°12'23.6830"W	4265.80	130.552	3.10	0.78	3.00
12057.00	88.280	145.440	8184.09	4226.80	-2854.05	3293.19	1769556.58	413838.33	39°38'2.6024"N	80°12'23.0107"W	4357.83	130.914	3.91	-1.31	-3.69
12152.00	89.450	145.080	8185.97	4321.77	-2932.10	3347.31	1769610.71	413760.29	39°38'1.8353"N	80°12'22.3110"W	4449.91	131.217	1.29	1.23	-0.38
12247.00	89.660	145.690	8186.71	4416.77	-3010.28	3401.27	1769664.67	413682.11	39°38'1.0668"N	80°12'21.6135"W	4542.08	131.510	0.68	0.22	0.64
12342.00	90.220	145.280	8186.81	4511.76	-3088.56	3455.10	1769718.49	413603.84	39°38'0.2974"N	80°12'20.9176"W	4634.32	131.794	0.73	0.59	-0.43
12437.00	90.460	145.560	8186.24	4606.76	-3166.77	3509.02	1769772.40	413525.63	39°37'59.5286"N	80°12'20.2206"W	4726.70	132.065	0.39	0.25	0.29
12531.00	90.430	145.860	8185.51	4700.75	-3244.43	3561.98	1769825.36	413447.97	39°37'58.7652"N	80°12'19.5360"W	4818.09	132.329	0.32	-0.03	0.32
12626.00	89.970	145.630	8185.18	4795.74	-3322.95	3615.45	1769878.83	413369.46	39°37'57.9934"N	80°12'18.8447"W	4910.55	132.586	0.54	-0.48	-0.24
12721.00	89.850	145.260	8185.33	4890.74	-3401.19	3669.33	1769932.71	413291.22	39°37'57.2244"N	80°12'18.1481"W	5003.21	132.828	0.41	-0.13	-0.39
12816.00	89.630	145.330	8185.76	4985.74	-3479.29	3723.42	1769986.79	413213.13	39°37'56.4567"N	80°12'17.4490"W	5096.01	133.059	0.24	-0.23	0.07
12911.00	90.460	145.930	8185.69	5080.73	-3557.71	3777.05	1770040.42	413134.72	39°37'55.6860"N	80°12'16.7557"W	5188.77	133.287	1.08	0.87	0.63
13006.00	89.970	145.490	8185.33	5174.72	-3635.37	3830.01	1770093.37	413057.07	39°37'54.9226"N	80°12'16.0711"W	5280.61	133.507	0.70	-0.52	-0.47

REFERENCE WELLPATH IDENTIFICATION

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Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

WELLPATH DATA (223 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]
13100.00	90.860	144.080	8184.65	5269.71	-3712.98	3884.78	1770148.15	412979.46	39°37'54.1598"N	80°12'15.3632"W	5373.80	133.705	1.76	0.94	-1.48
13195.00	91.420	144.150	8182.75	5364.68	-3789.93	3940.46	1770203.82	412902.51	39°37'53.4036"N	80°12'14.6439"W	5467.25	133.884	0.59	0.59	0.07
13290.00	91.570	144.730	8180.28	5459.65	-3867.19	3995.69	1770259.04	412825.26	39°37'52.6444"N	80°12'13.9303"W	5560.63	134.064	0.63	0.16	0.61
13384.00	91.600	144.430	8177.68	5553.61	-3943.76	4050.15	1770313.50	412748.69	39°37'51.8919"N	80°12'13.2266"W	5653.05	134.238	0.32	0.03	-0.32
13479.00	91.540	144.130	8175.07	5648.56	-4020.86	4105.59	1770368.94	412671.60	39°37'51.1342"N	80°12'12.5103"W	5746.58	134.403	0.32	-0.06	-0.32
13574.00	91.420	143.750	8172.62	5743.52	-4097.63	4161.49	1770424.83	412594.83	39°37'50.3798"N	80°12'11.7882"W	5840.26	134.557	0.42	-0.13	-0.40
13669.00	90.950	144.030	8170.66	5838.48	-4174.36	4217.46	1770480.81	412518.10	39°37'49.6258"N	80°12'11.0651"W	5934.00	134.706	0.58	-0.49	0.29
13764.00	91.320	144.790	8168.77	5933.45	-4251.60	4272.74	1770536.08	412440.87	39°37'48.8668"N	80°12'10.3509"W	6027.64	134.858	0.89	0.39	0.80
13859.00	90.710	144.550	8167.09	6028.44	-4329.09	4327.67	1770591.00	412363.83	39°37'48.1052"N	80°12'9.6412"W	6121.26	135.009	0.69	-0.64	-0.25
13954.00	91.290	144.520	8165.45	6122.42	-4405.64	4382.20	1770645.53	412286.84	39°37'47.3529"N	80°12'8.9366"W	6213.97	135.153	0.62	0.62	-0.03
14047.00	91.380	143.900	8163.26	6216.38	-4481.87	4437.16	1770700.49	412210.61	39°37'46.6038"N	80°12'8.2266"W	6306.78	135.287	0.67	0.10	-0.66
14142.00	91.170	144.160	8161.15	6311.35	-4558.74	4492.94	1770756.27	412133.75	39°37'45.8485"N	80°12'7.5059"W	6400.67	135.416	0.35	-0.22	0.27
14236.00	91.170	144.040	8159.23	6405.31	-4634.87	4548.05	1770811.37	412057.63	39°37'45.1004"N	80°12'6.7940"W	6493.59	135.542	0.13	0.00	-0.13
14331.00	91.260	144.270	8157.21	6500.28	-4711.86	4603.67	1770866.99	411980.64	39°37'44.3438"N	80°12'6.0755"W	6587.52	135.665	0.26	0.09	0.24
14426.00	91.570	144.660	8154.87	6595.25	-4789.14	4658.87	1770922.18	411903.36	39°37'43.5843"N	80°12'5.3624"W	6681.38	135.790	0.52	0.33	0.41
14520.00	91.630	144.800	8152.24	6689.21	-4865.85	4713.12	1770976.44	411826.66	39°37'42.8304"N	80°12'4.6613"W	6774.22	135.913	0.16	0.06	0.15
14614.00	91.540	144.600	8149.64	6783.17	-4942.54	4767.42	1771030.73	411749.97	39°37'42.0767"N	80°12'3.9597"W	6867.10	136.033	0.23	-0.10	-0.21
14708.00	91.290	144.430	8147.32	6877.14	-5019.06	4821.97	1771085.28	411673.46	39°37'41.3247"N	80°12'3.2549"W	6960.06	136.147	0.32	-0.27	-0.18
14801.00	91.480	144.730	8145.07	6970.11	-5094.83	4875.85	1771139.16	411597.70	39°37'40.5801"N	80°12'2.5587"W	7052.04	136.258	0.38	0.20	0.32
14896.00	91.420	144.620	8142.67	7065.08	-5172.31	4930.77	1771194.07	411520.22	39°37'39.8186"N	80°12'1.8492"W	7146.00	136.370	0.13	-0.06	-0.12
14991.00	91.570	144.690	8140.19	7160.05	-5249.77	4985.71	1771249.00	411442.76	39°37'39.0572"N	80°12'1.1394"W	7239.99	136.478	0.17	0.16	0.07
15086.00	91.820	144.730	8137.38	7255.00	-5327.28	5040.57	1771303.86	411365.25	39°37'38.2955"N	80°12'0.4306"W	7333.98	136.584	0.27	0.26	0.04
15181.00	91.720	145.350	8134.45	7349.96	-5405.10	5094.97	1771358.26	411287.44	39°37'37.5306"N	80°11'59.7275"W	7427.91	136.692	0.66	-0.11	0.65
15275.00	91.850	144.860	8131.52	7443.91	-5482.16	5148.72	1771412.01	411210.38	39°37'36.7732"N	80°11'59.0329"W	7520.87	136.797	0.54	0.14	-0.52
15370.00	92.060	144.710	8128.28	7538.86	-5559.73	5203.47	1771466.75	411132.82	39°37'36.0108"N	80°11'58.3255"W	7614.90	136.896	0.27	0.22	-0.16
15465.00	92.090	143.670	8124.84	7633.78	-5636.72	5259.02	1771522.30	411055.83	39°37'35.2542"N	80°11'57.6079"W	7709.08	136.985	1.09	0.03	-1.09
15560.00	91.600	144.510	8121.78	7728.72	-5713.63	5314.71	1771577.98	410978.93	39°37'34.4985"N	80°11'56.8886"W	7803.31	137.072	1.02	-0.52	0.88
15654.00	91.540	144.300	8119.20	7822.68	-5790.03	5369.40	1771632.67	410902.53	39°37'33.7476"N	80°11'56.1820"W	7896.52	137.159	0.23	-0.06	-0.22
15749.00	91.420	144.080	8116.75	7917.64	-5867.05	5424.97	1771688.23	410825.52	39°37'32.9907"N	80°11'55.4642"W	7990.78	137.242	0.26	-0.13	-0.23
15844.00	91.940	145.650	8113.96	8012.59	-5944.70	5479.61	1771742.88	410747.87	39°37'32.2275"N	80°11'54.7581"W	8084.90	137.331	1.74	0.55	1.66

REFERENCE WELLPATH IDENTIFICATION

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Slot	Slot 14		

WELLPATH DATA (223 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]
15938.00	92.890	146.200	8110.00	8106.50	-6022.49	5532.23	1771795.49	410670.08	39°37'31.4628"N	80°11'54.0779"W	8177.78	137.430	1.17	1.01	0.59
16033.00	92.740	145.420	8105.34	8201.37	-6100.98	5585.55	1771848.81	410591.60	39°37'30.6912"N	80°11'53.3887"W	8271.66	137.525	0.84	-0.16	-0.82
16128.00	92.530	145.050	8100.97	8296.27	-6178.94	5639.67	1771902.92	410513.65	39°37'29.9249"N	80°11'52.6895"W	8365.71	137.613	0.45	-0.22	-0.39
16222.00	91.820	144.910	8097.40	8390.20	-6255.87	5693.57	1771956.82	410436.73	39°37'29.1688"N	80°11'51.9930"W	8458.88	137.694	0.77	-0.76	-0.15
16317.00	91.720	145.000	8094.47	8485.16	-6333.60	5748.09	1772011.34	410358.99	39°37'28.4047"N	80°11'51.2884"W	8553.08	137.775	0.14	-0.11	0.09
16412.00	92.090	145.640	8091.31	8580.10	-6411.68	5802.12	1772065.36	410280.92	39°37'27.6372"N	80°11'50.5903"W	8647.21	137.857	0.78	0.39	0.67
16506.00	91.820	145.620	8088.10	8674.04	-6489.23	5855.15	1772118.40	410203.38	39°37'26.8750"N	80°11'49.9048"W	8740.30	137.940	0.29	-0.29	-0.02
16600.00	92.150	146.030	8084.85	8767.98	-6566.95	5907.92	1772171.16	410125.66	39°37'26.1109"N	80°11'49.2228"W	8833.37	138.024	0.56	0.35	0.44
16695.00	91.050	145.390	8082.20	8862.92	-6645.40	5961.42	1772224.66	410047.21	39°37'25.3397"N	80°11'48.5313"W	8927.48	138.106	1.34	-1.16	-0.67
16789.00	90.770	145.140	8080.70	8956.92	-6722.64	6014.98	1772278.21	409969.98	39°37'24.5805"N	80°11'47.8393"W	9020.75	138.180	0.40	-0.30	-0.27
16883.00	93.420	147.300	8077.27	9050.82	-6800.71	6067.20	1772330.43	409891.92	39°37'23.8130"N	80°11'47.1642"W	9113.76	138.263	3.64	2.82	2.30
16979.00	91.660	145.590	8073.01	9146.69	-6880.63	6120.21	1772383.43	409812.00	39°37'23.0272"N	80°11'46.4788"W	9208.69	138.347	2.55	-1.83	-1.78
17072.00	91.660	145.320	8070.32	9239.64	-6957.20	6172.92	1772436.14	409735.44	39°37'22.2745"N	80°11'45.7976"W	9300.94	138.418	0.29	0.00	-0.29
17167.00	91.600	144.940	8067.61	9334.60	-7035.11	6227.21	1772490.43	409657.53	39°37'21.5087"N	80°11'45.0961"W	9395.26	138.486	0.40	-0.06	-0.40
17262.00	91.630	145.270	8064.94	9429.57	-7113.00	6281.54	1772544.75	409579.65	39°37'20.7431"N	80°11'44.3942"W	9489.60	138.552	0.35	0.03	0.35
17357.00	91.290	145.070	8062.52	9524.54	-7190.95	6335.78	1772598.99	409501.70	39°37'19.9769"N	80°11'43.6933"W	9583.94	138.617	0.42	-0.36	-0.21
17452.00	91.140	144.730	8060.50	9619.51	-7268.66	6390.39	1772653.60	409424.00	39°37'19.2131"N	80°11'42.9877"W	9678.35	138.679	0.39	-0.16	-0.36
17547.00	91.140	145.520	8058.61	9714.49	-7346.58	6444.70	1772707.90	409346.08	39°37'18.4472"N	80°11'42.2860"W	9772.74	138.742	0.83	0.00	0.83
17642.00	91.480	145.770	8056.44	9809.46	-7424.99	6498.30	1772761.50	409267.68	39°37'17.6764"N	80°11'41.5933"W	9867.03	138.808	0.44	0.36	0.26
17738.00	91.380	145.560	8054.04	9905.43	-7504.24	6552.43	1772815.62	409188.43	39°37'16.8974"N	80°11'40.8938"W	9962.32	138.874	0.24	-0.10	-0.22
17832.00	91.350	145.270	8051.81	9999.40	-7581.60	6605.77	1772868.96	409111.07	39°37'16.1369"N	80°11'40.2045"W	10055.69	138.935	0.31	-0.03	-0.31
17927.00	91.480	145.240	8049.46	10094.37	-7659.64	6659.89	1772923.09	409033.04	39°37'15.3698"N	80°11'39.5051"W	10150.09	138.994	0.14	0.14	-0.03
18021.00	92.090	145.620	8046.53	10188.32	-7737.00	6713.20	1772976.39	408955.68	39°37'14.6093"N	80°11'38.8162"W	10243.45	139.053	0.76	0.65	0.40
18116.00	90.220	144.620	8044.62	10283.29	-7814.92	6767.52	1773030.70	408877.77	39°37'13.8434"N	80°11'38.1145"W	10337.90	139.108	2.23	-1.97	-1.05
18210.00	91.690	145.430	8043.05	10377.28	-7891.93	6821.39	1773084.57	408800.77	39°37'13.0865"N	80°11'37.4184"W	10431.39	139.161	1.79	1.56	0.86
18303.00	90.830	145.460	8041.01	10470.25	-7968.50	6874.13	1773137.31	408724.20	39°37'12.3337"N	80°11'36.7370"W	10523.81	139.217	0.93	-0.92	0.03
18398.00	90.800	145.480	8039.65	10565.24	-8046.76	6927.97	1773191.15	408645.95	39°37'11.5645"N	80°11'36.0412"W	10618.24	139.273	0.04	-0.03	0.02
18493.00	90.680	144.900	8038.43	10660.23	-8124.75	6982.20	1773245.37	408567.96	39°37'10.7978"N	80°11'35.3406"W	10712.73	139.325	0.62	-0.13	-0.61
18588.00	90.620	143.460	8037.35	10755.21	-8201.77	7037.79	1773300.96	408490.94	39°37'10.0409"N	80°11'34.6226"W	10807.39	139.368	1.52	-0.06	-1.52
18683.00	90.650	144.910	8036.31	10849.19	-8277.99	7092.79	1773355.96	408414.72	39°37'9.2918"N	80°11'33.9122"W	10901.05	139.409	1.54	0.03	1.54

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

WELLPATH DATA (223 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]
1877.00	90.950	144.770	8034.98	10944.18	-8355.65	7147.49	1773410.65	408337.07	39°37'8.5285"N	80°11'33.2056"W	10995.62	139.456	0.35	0.32	-0.15
1887.00	91.970	145.320	8032.59	11038.15	-8432.67	7201.33	1773464.49	408260.06	39°37'7.7715"N	80°11'32.5100"W	11089.14	139.503	1.23	1.09	0.59
1896.00	91.480	144.220	8029.73	11133.11	-8510.23	7256.11	1773519.26	408182.50	39°37'7.0091"N	80°11'31.8024"W	11183.70	139.548	1.27	-0.52	-1.16
1906.00	90.400	144.300	8028.18	11227.08	-8586.52	7311.00	1773574.16	408106.22	39°37'6.2594"N	80°11'31.0934"W	11277.37	139.587	1.15	-1.15	0.09
1915.00	90.710	144.550	8027.26	11322.07	-8663.78	7366.27	1773629.42	408028.96	39°37'5.5000"N	80°11'30.3796"W	11372.03	139.628	0.42	0.33	0.26
1925.00	92.000	145.850	8025.02	11417.04	-8741.77	7420.47	1773683.62	407950.98	39°37'4.7334"N	80°11'29.6793"W	11466.55	139.674	1.93	1.36	1.37
1934.50	91.140	144.580	8022.41	11512.00	-8819.76	7474.64	1773737.79	407872.99	39°37'3.9668"N	80°11'28.9794"W	11561.08	139.719	1.61	-0.91	-1.34
1944.00	91.260	145.000	8020.42	11606.98	-8897.36	7529.41	1773792.55	407795.39	39°37'3.2040"N	80°11'28.2720"W	11655.69	139.760	0.46	0.13	0.44
19534.00	90.980	144.720	8018.59	11700.96	-8974.21	7583.50	1773846.64	407718.55	39°37'2.4486"N	80°11'27.5732"W	11749.30	139.801	0.42	-0.30	-0.30
19629.00	90.860	144.570	8017.06	11795.95	-9051.68	7638.46	1773901.60	407641.08	39°37'1.6872"N	80°11'26.8633"W	11843.95	139.840	0.20	-0.13	-0.16
19724.00	90.830	144.390	8015.66	11890.94	-9129.00	7693.65	1773956.78	407563.77	39°37'0.9273"N	80°11'26.1505"W	11938.63	139.877	0.19	-0.03	-0.19
19804.00	90.650	144.530	8014.63	11970.92	-9194.09	7740.15	1774003.28	407498.68	39°37'0.2876"N	80°11'25.5499"W	12018.37	139.907	0.29	-0.22	0.18
19829.00†	90.650	144.530	8014.34	11995.92	-9214.45	7754.66	1774017.78	407478.33	39°37'0.0875"N	80°11'25.3626"W	12043.29	139.917	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Yost 14H AWB Ref Wellpath: Yost 14H AWP Proj: 19829'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]
17.5in Open Hole	28.00	1491.00	1463.00	28.00	1490.99	0.00	-3.16	0.00	0.42
13.375in Casing Surface	28.00	1471.00	1443.00	28.00	1470.99	0.00	-3.09	0.00	0.45
12.25in Open Hole	1491.00	2691.00	1200.00	1490.99	2686.01	-3.16	74.01	0.42	52.86
9.625in Casing Intermediate	28.00	2661.00	2633.00	28.00	2656.07	0.00	72.67	0.00	51.60
8.75in Open Hole	2691.00	7639.00	4948.00	2686.01	7545.08	74.01	376.89	52.86	918.62
8.5in Open Hole	7639.00	19829.00	12190.00	7545.08	8014.34	376.89	-9214.45	918.62	7754.66
5.5in Casing Production	28.00	19799.00	19771.00	28.00	8014.69	0.00	-9190.02	0.00	7737.25



Actual Wellpath Report

Yost 14H AWP Proj: 19829'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Yost 14H BHL Rev-4	8308.00	-9211.66	7759.35	1774022.48	407481.12	39°37'0.1154"N	80°11'25.3029"W	point
Yost 14H LP Rev-1	8308.00	-181.92	1436.66	1767700.17	416510.30	39°38'28.8651"N	80°12'47.0105"W	point
Yost Hardline #3 (2.10.22)	9028.00	-10312.07	7155.82	1773418.98	406380.77	39°36'49.1944"N	80°11'32.9065"W	polygon
	2D Polygon: dimensions not calculated							
Yost Hardline #4 (2.24.22)	9028.00	-10312.07	7155.82	1773418.98	406380.77	39°36'49.1944"N	80°11'32.9065"W	polygon
	2D Polygon: dimensions not calculated							
Yost Hardline #5 (2.24.22)	9028.00	-1567.19	1554.83	1767818.33	415125.12	39°38'15.1843"N	80°12'45.3596"W	polygon
	2D Polygon: dimensions not calculated							

WELLPATH COMPOSITION - Ref Wellbore: Yost 14H AWB Ref Wellpath: Yost 14H AWP Proj: 19829'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1300.00	BH Generic gyro - northseeking (Standard)	01_Gyro Surveys [BH Generic Gyro-Northseeking] (50'-1300')	Yost 14H AWB	5/22/2022
1300.00	7493.00	OWSG MWD rev2 + HRGM	02_SDI MWD [OWSG MWD Rev.2+HRGM] (1300')(1342'-7493')	Yost 14H AWB	5/22/2022
7493.00	19829.00	BH AutoTrak Curve/Express (2019) (HRGM, Short spacing)	03_ATK Curve [HRGM+Short Spacing] (7493')(7607' - 19804')	Yost 14H AWB	5/22/2022

02/23/2024

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Yost 14H
Field	Monongalia	API/Legal	
Facility	Yost Pad	Wellbore	Yost 14H AWB
Slot	Slot 14		

COMMENTS

Wellpath general comments

API: 47061018960000

BH Job #: 111309722

Rig: Patterson 277

Duration: 5/22/2022 - 5/27/2022

- 01_Gyro Surveys [BH Generic Gyro-Northseeking] (50'-1300')
- 02_SDI MWD [OWSG MWD Rev.2+HRGM] (1300')(1342'-7493')
- 03_ATK Curve [HRGM+Short Spacing] (7493')(7607' - 19804')

Final Survey MD at: 19804'

Projected MD at TD: 19829'

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/27/2022
Job End Date:	8/17/2022
State:	West Virginia
County:	Monongalia
API Number:	47-061-01896-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Yost 14H
Latitude:	39.64182700
Longitude:	-80.21816800
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,139
Total Base Water Volume (gal):	21,678,888
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Northeast Natural Energy	Carrier/Base Fluid					
Sand (100 Mesh Proppant)	ProFrac	Proppant	Water	7732-18-5	100.00000	87.45285	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	9.49538	None
Hydrochloric Acid (7.5%)	CNR	Acidizing	Silica Substrate	14808-60-7	100.00000	2.77287	None
Central 268	Chemstream	Biocide	Water	7732-18-5	85.00000	0.15514	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.06753	None
			Non-hazardous substances	Proprietary	80.00000	0.02127	None
			Glutaraldehyde	111-30-8	20.00000	0.00530	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00080	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00080	None

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StimSTREAM FR 9800	Chemstream	Friction Reducer	Ethanol	64-17-5	1.50000	0.00040	None
			alkanes, C16-20-iso-	90622-59-6	25.00000	0.01280	None
			Butene, homopolymer	9003-29-6	25.00000	0.01280	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00154	None
StimSTREAM SC 405	Chemstream	Scale Control	Non-Hazardous Substances	Proprietary	70.00000	0.01234	None
			Citric Acid	77-92-9	10.00000	0.00176	None
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00176	None
			Diethylenetriamine penta(methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00176	None
ProHib 100	CNR	Acid Inhibitor	2-Butoxyethanol	111-76-2	60.00000	0.00036	None
			Proprietary material	Proprietary	30.00000	0.00018	None
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00012	None
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00006	None
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00006	None
ProFE 105	CNR	Iron Control	Citric Acid	77-92-9	20.00000	0.00010	None
			Acetic Acid	64-19-7	5.00000	0.00002	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.15514	
			Non-hazardous substances	Proprietary	80.00000	0.02121	
			Butene, homopolymer	9003-29-6	25.00000	0.01280	
			Non-Hazardous Substances	Proprietary	70.00000	0.01234	
			Diethylenetriamine penta(methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00176	
			Citric Acid	77-92-9	10.00000	0.00176	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00154	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00080	
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00080	
			Ethanol	64-17-5	1.50000	0.00040	
			Proprietary material	Proprietary	30.00000	0.00018	
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00012	
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00006	
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00006	
			Acetic Acid	64-19-7	5.00000	0.00002	

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