

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

API 47-061-01884 County Monongalia District Battelle
Quad Mannington Pad Name McClellan Field/Pool Name _____
Farm name McClellan Well Number 3H
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 4386021.8 Easting 561893.5
Landing Point of Curve Northing 4385895.9 Easting 561827.6
Bottom Hole Northing 4389795.4 Easting 559121.1

Elevation (ft) 1,412' 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 9/17/2021 Date drilling commenced 2/22/2022 Date drilling ceased 8/5/2022
Date completion activities began 11/23/22 Date completion activities ceased 12/14/22
Verbal plugging (Y/N) NA Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 726', 1105', 1135' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2150', 2470' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1095' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

02/23/2024

API 47-061 - 01884 Farm name McClellan Well number 3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	24"	100'	N		NA	
Surface	17-1/2"	13-3/8"	1,468'	N	54.5	NA	Y, 40 bbl
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,667'	N	40	NA	Y, 21 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	23,462'	N	20	NA	Y
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	4,500 PSI Grout						48
Surface	Class A + 2%	1,240	15.6	1.19	1,472	CTS	8
Coal							
Intermediate 1	Class A + 1%	915	15.6	1.18	1,083	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Class A + Additives	4,795	14.5	1.16	5,552	87'	48
Tubing							

Drillers TD (ft) 23,501' Loggers TD (ft) 23,471'
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 7,125'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
Surface: Bow spring centralizers every 3rd joint or approximately 120'
Intermediate: Bow spring centralizers every 3rd joint or approximately 120'
Production: Rigid body centralizers placed at a minimum of every other joint (~80') from TD to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

McClellan Completion lithology 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)
Sand/silt	0	160	Sand/silt
silt/red shale	160	490	silt/red shale
siltstone/sandstone/limestone	490	520	siltstone/sandstone/limestone
limestone/siltstone/sandstone	520	576	siltstone
coal	576	580	coal
siltstone/limestone/shale	580	760	siltstone/shale
coal	760	992	siltstone/shale/limestone
siltstone/sandstone	992	998	coal
siltstone/shale/limestone	998	1084	siltstone/shale/limestone
sandstone/siltstone/limestone	1084	1092	coal - Pittsburgh
coal-Pittsburgh	1092	1120	siltstone/shale/limestone
sandstone/limestone	1120	1150	sandstone
red shale/siltstone	1150	1480	siltstone/limestone/sand/red shale
Limestone/siltstone	1480	2050	siltstone/sandstone
sandstone	2050	2110	sandstone
sandstone/siltstone/red shale	2110	2260	siltstone/sandstone
siltstone/sandstone	2260	2470	siltstone/limestone
sandstone	2470	2500	Big Injun Sandstone
Upper Devonian Sands/silts	2500	3010	sandstone/siltstone
shale/siltstone	3010	3020	Gantz sandstone
Upper Devonian Sands/silts	3020	3560	Upper Devonian sandstones/siltstones
Devonian siltstones/shales	3560	7620	Devonian siltstones/shales
Middlesex shale/silt	7620	7790	Middlesex shale/silt
Burkett shale	7790	7816	Burkett Shale
Geneseo shale	7816	7845	Geneseo shale
Tully Limestone	7845	7898	Tully Limestone
Hamilton shale	7898	7996	Hamilton shale
Marcellus shale	7996	TD	Marcellus shale

02/23/2024

McClellan 3H 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	11/23/2022	5,134	9,500	9,122	84	74	7,818	300,000	1,107
2	11/23/2022	5,136	5,882	8,711	77	69	10,528	500,000	566
3	11/23/2022	6,071	6,535	8,912	77	515	13,251	485,200	560
4	11/24/2022	6,445	6,758	8,972	84	524	11,196	502,620	560
5	11/24/2022	5,478	6,493	8,957	81	71	10,938	500,000	539
6	11/24/2022	5,589	6,911	8,916	84	9	10,609	500,000	494
7	11/24/2022	5,995	7,145	8,884	73	101	10,816	502,320	548
8	11/25/2022	6,041	6,696	8,815	76	430	11,088	501,230	543
9	11/25/2022	5,458	7,208	8,944	78	395	11,070	500,000	531
10	11/25/2022	5,897	7,707	9,088	82	62	10,748	500,000	534
11	11/25/2022	5,722	7,997	9,129	84	59	10,840	500,000	530
12	11/25/2022	6,476	7,450	8,858	79	105	9,760	456,160	527
13	11/25/2022	5,885	7,034	8,941	80	140	9,853	456,050	529
14	11/26/2022	5,639	7,140	8,982	83	93	9,935	455,000	489
15	11/26/2022	5,490	7,396	9,012	84	65	9,843	455,000	582
16	11/26/2022	4,904	7,519	8,996	78	62	9,683	460,500	515
17	11/27/2022	6,382	6,085	8,797	80	62	9,894	459,320	513
18	11/27/2022	5,509	7,125	9,141	84	386	10,282	455,000	469
19	11/27/2022	6,626	7,220	8,633	79	22	9,816	457,420	510
20	11/28/2022	5,142	7,455	9,123	84	85	10,021	455,000	541
21	11/28/2022	6,517	8,104	8,744	79	113	9,973	460,060	450
22	11/29/2022	6,188	7,421	8,975	78	450	9,829	457,200	430
23	11/29/2022	6,296	6,936	8,910	80	29	9,810	456,240	427
24	11/30/2022	6,022	6,213	8,647	84	115	11,236	456,059	483
25	11/30/2022	5,358	6,561	8,941	84	65	9,838	459,517	483
26	11/30/2022	6,702	6,505	8,567	80	76	9,754	456,890	415
27	12/1/2022	6,406	7,347	8,829	79	97	9,714	457,420	410
28	12/1/2022	6,519	6,143	8,491	84	61	9,898	458,127	458
29	12/1/2022	6,266	7,118	8,676	78	91	9,832	460,340	400
30	12/1/2022	6,338	7,093	8,751	80	61	9,734	455,760	395
31	12/3/2022	5,680	7,295	8,514	77	66	9,691	455,100	395
32	12/3/2022	5,808	6,776	8,719	85	53	9,699	456,502	429
33	12/3/2022	5,357	7,105	8,790	85	96	9,748	455,277	434
34	12/3/2022	6,071	7,266	8,704	85	80	9,763	454,900	423
35	12/3/2022	5,754	7,035	8,690	79	81	9,305	455,400	390
36	12/4/2022	6,925	6,495	8,396	81	141	9,333	454,860	370
37	12/4/2022	5,852	7,747	8,796	84	178	9,787	455,772	418
38	12/4/2022	5,902	7,262	8,754	78	86	9,178	454,940	365
39	12/5/2022	5,962	7,354	8,688	79	94	9,255	456,330	357
40	12/5/2022	5,378	7,458	8,720	85	78	9,812	453,944	548
41	12/5/2022	5,798	7,310	8,455	84	120	9,904	454,719	487
42	12/5/2022	6,215	8,109	8,714	77	46	9,222	454,840	341
43	12/6/2022	5,671	7,164	8,491	80	90	9,340	454,260	345
44	12/6/2022	5,757	7,719	8,561	84	92	9,736	458,111	458
45	12/6/2022	5,779	6,717	8,427	85	24	9,840	455,809	636

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	12/6/2022	5,560	6,587	8,535	84	48	9,757	455,070	594
47	12/6/2022	5,629	7,647	8,574	85	86	9,281	455,000	325
48	12/7/2022	5,970	6,465	8,224	85	56	9,329	455,000	320
49	12/7/2022	5,811	6,773	8,207	84	67	9,807	454,200	593
50	12/7/2022	5,729	7,564	8,382	85	42	9,218	455,140	315
51	12/8/2022	6,142	7,492	8,340	85	50	9,508	455,907	364
52	12/8/2022	6,495	6,510	8,045	85	28	9,505	453,038	485
53	12/8/2022	5,677	7,668	8,348	84	43	9,275	455,020	300
54	12/8/2022	5,647	6,017	8,436	85	125	9,280	456,960	292
55	12/9/2022	5,919	7,727	8,378	84	75	9,039	456,660	290
56	12/9/2022	5,884	7,030	8,190	85	136	9,750	455,851	360
57	12/9/2022	6,169	6,258	7,858	85	44	9,686	455,964	332
58	12/9/2022	6,262	5,688	7,767	85	64	9,148	455,400	275
59	12/10/2022	6,087	6,910	8,114	85	76	9,172	455,660	282
60	12/10/2022	6,183	5,960	7,996	85	77	9,575	455,204	316
61	12/10/2022	5,531	6,974	8,097	85	21	9,594	458,117	337
62	12/10/2022	6,173	5,929	7,948	85	25	9,497	457,719	255
63	12/10/2022	6,258	8,020	7,985	85	41	9,017	455,040	255
64	12/11/2022	5,526	7,960	7,898	84	44	9,213	456,060	250
65	12/11/2022	5,922	6,903	8,181	85	97	9,941	453,767	291
66	12/11/2022	6,353	6,041	7,965	85	59	9,547	455,585	282
67	12/11/2022	6,116	6,364	7,952	85	343	10,569	456,263	235
68	12/12/2022	5,978	5,938	7,690	85	97	9,201	455,200	232
69	12/12/2022	5,317	6,689	7,781	82	56	9,227	455,340	230
70	12/12/2022	6,353	6,553	7,823	85	35	9,533	455,163	269
71	12/12/2022	5,789	7,646	8,151	85	27	9,626	450,772	258
72	12/12/2022	6,262	7,574	7,802	85	585	9,707	392,956	307
73	12/13/2022	6,180	6,832	7,607	84	177	9,089	390,680	256
74	12/13/2022	7,480	6,986	7,564	83	58	8,589	390,800	254
75	12/13/2022	7,134	6,574	7,309	81	9	8,150	390,600	247
76	12/13/2022	7,008	6,458	7,105	82	25	8,158	396,160	241

02/23/2024

McClellan 3H

Perforation Report

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	11/23/2022	40		23,353
2	11/23/2022	40	23,309	23,152
3	11/23/2022	40	23,110	22,953
4	11/24/2022	40	22,911	22,754
5	11/24/2022	40	22,712	22,555
6	11/24/2022	40	22,513	22,356
7	11/24/2022	40	22,314	22,157
8	11/25/2022	40	22,115	21,958
9	11/25/2022	40	21,916	21,759
10	11/25/2022	40	21,717	21,560
11	11/25/2022	40	21,518	21,361
12	11/25/2022	40	21,319	21,162
13	11/25/2022	40	21,120	20,963
14	11/26/2022	40	20,921	20,764
15	11/26/2022	40	20,722	20,565
16	11/26/2022	40	20,523	20,366
17	11/27/2022	40	20,324	20,167
18	11/27/2022	40	20,125	19,968
19	11/27/2022	40	19,926	19,769
20	11/28/2022	40	19,727	19,570
21	11/28/2022	40	19,528	19,371
22	11/29/2022	40	19,329	19,172
23	11/29/2022	40	19,130	18,973
24	11/30/2022	40	18,931	18,774
25	11/30/2022	40	18,732	18,575
26	11/30/2022	40	18,533	18,376
27	12/1/2022	40	18,334	18,177
28	12/1/2022	40	18,135	17,978
29	12/1/2022	40	17,936	17,779
30	12/1/2022	40	17,737	17,580
31	12/3/2022	40	17,538	17,381
32	12/3/2022	40	17,340	17,182
33	12/3/2022	40	17,141	16,983
34	12/3/2022	40	16,942	16,784
35	12/3/2022	40	16,743	16,585
36	12/4/2022	40	16,544	16,386
37	12/4/2022	40	16,345	16,187
38	12/4/2022	40	16,146	15,988
39	12/5/2022	40	15,947	15,789
40	12/5/2022	40	15,748	15,590
41	12/5/2022	40	15,549	15,391
42	12/5/2022	40	15,350	15,192
43	12/6/2022	40	15,151	14,993
44	12/6/2022	40	14,952	14,794
45	12/6/2022	40	14,753	14,595
46	12/6/2022	40	14,554	14,396
47	12/6/2022	40	14,355	14,197

02/23/2024

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
48	12/7/2022	40	14,156	13,998
49	12/7/2022	40	13,957	13,799
50	12/7/2022	40	13,758	13,600
51	12/8/2022	40	13,559	13,402
52	12/8/2022	40	13,360	13,203
53	12/8/2022	40	13,161	13,004
54	12/8/2022	40	12,962	12,805
55	12/9/2022	40	12,763	12,606
56	12/9/2022	40	12,564	12,407
57	12/9/2022	40	12,365	12,208
58	12/9/2022	40	12,166	12,009
59	12/10/2022	40	11,967	11,810
60	12/10/2022	40	11,768	11,611
61	12/10/2022	40	11,569	11,412
62	12/10/2022	40	11,370	11,213
63	12/10/2022	40	11,171	11,014
64	12/11/2022	40	10,972	10,815
65	12/11/2022	40	10,773	10,616
66	12/11/2022	40	10,574	10,417
67	12/11/2022	40	10,375	10,218
68	12/12/2022	40	10,176	10,019
69	12/12/2022	40	9,977	9,820
70	12/12/2022	40	9,778	9,621
71	12/12/2022	40	9,579	9,422
72	12/12/2022	40	9,380	9,223
73	12/13/2022	40	9,181	9,024
74	12/13/2022	40	8,982	8,825
75	12/13/2022	40	8,783	8,626
76	12/13/2022	40	8,584	8,427

02/23/2024

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/23/2022
Job End Date:	12/13/2022
State:	West Virginia
County:	Monongalia
API Number:	47-061-01884-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	McClellan 3H
Latitude:	39.62172400
Longitude:	-80.27887800
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,098
Total Base Water Volume (gal):	31,130,946
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Abstract 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	87.90178	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	10.54447	None
Hydrochloric Acid (7.5%)	CNR	Acidizing	Silica Substrate	14808-60-7	100.00000	1.16600	None
			Water	7732-18-5	85.00000	0.22314	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.09713	None
6212312024	Chemstream	Friction Reducer	alkanes, C16-20-iso-	90622-59-6	25.00000	0.02338	None
			Butene, homopolymer	9003-29-6	25.00000	0.02338	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00280	None
6212312024	Chemstream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.01338	None

				Glutaraldehyde	111-30-8	20.00000	0.00334	None
				Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00050	None
				Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00050	None
				Ethanol	64-17-5	1.50000	0.00028	None
StimSTREAM SC 405	Chemstream	Scale Control		Non-Hazardous Substances	Proprietary	70.00000	0.00945	None
				Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00135	None
				2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00135	None
				Citric Acid	77-92-9	10.00000	0.00135	None
ProHib 100	CNR	Acid Inhibitor		2-Butoxyethanol	111-76-2	60.00000	0.00056	None
				Proprietary material	Proprietary	30.00000	0.00028	None
				Proprietary non-ionic surfactant	Proprietary	20.00000	0.00019	None
				Proprietary corrosion inhibitor	Proprietary	10.00000	0.00009	None
				Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00009	None
ProFE 105	CNR	Iron Control		Citric Acid	77-92-9	20.00000	0.00013	None
				Acetic Acid	64-19-7	5.00000	0.00003	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	0.22314	
				Butene, homopolymer	9003-29-6	25.00000	0.02336	
				Non-hazardous substances	Proprietary	80.00000	0.01336	
				Non-Hazardous Substances	Proprietary	70.00000	0.00945	
				Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00280	
				Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00135	
				Citric Acid	77-92-9	10.00000	0.00135	
				Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00050	
				Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00050	
				Proprietary material	Proprietary	30.00000	0.00028	
				Ethanol	64-17-5	1.50000	0.00025	
				Proprietary non-ionic surfactant	Proprietary	20.00000	0.00019	
				Proprietary corrosion inhibitor	Proprietary	10.00000	0.00009	
				Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00009	
				Acetic Acid	64-19-7	5.00000	0.00003	

02/23/2024

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC		Well	McClellan 3H
Field	Monongalia		API/Legal	
Facility	McClellan Pad		Wellbore	McClellan 3H AWB
Slot	Slot #03			

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	8/22/2022 at 1:31:11 AM
Convergence at slot	0.50° West		Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	19.28	-81.39	1749103.61	409515.18	39°37'18.2046"N	80°16'43.9609"W
Facility Reference Pt			1749185.00	409495.90	39°37'18.0211"N	80°16'42.9186"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 (KB) to Facility Vertical Datum	1440.00ft
Horizontal Reference Pt	Slot	Patterson 277 (KB) to Mean Sea Level	1440.00ft
Vertical Reference Pt	Patterson 277 (KB)	Patterson 277 (KB) to Ground Level at Slot (Slot #03)	28.00ft
MD Reference Pt	Patterson 277 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.37°



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 2 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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	265.800	0.00	0.00	0.00	0.00	1749103.61	409515.18	39°37'18.2046"N	80°16'43.9609"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	265.800	28.00	0.00	0.00	0.00	1749103.61	409515.18	39°37'18.2046"N	80°16'43.9609"W	0.00	0.000	0.00	0.00	0.00
50.00	0.250	265.800	50.00	0.02	0.00	-0.05	1749103.56	409515.18	39°37'18.2046"N	80°16'43.9615"W	0.05	265.800	1.14	1.14	0.00
100.00	0.190	294.800	100.00	0.15	0.02	-0.23	1749103.38	409515.20	39°37'18.2046"N	80°16'43.9639"W	0.23	275.730	0.25	-0.12	58.00
150.00	0.220	233.100	150.00	0.21	0.00	-0.38	1749103.23	409515.18	39°37'18.2046"N	80°16'43.9658"W	0.38	270.061	0.42	0.06	-123.40
200.00	0.230	235.200	200.00	0.21	-0.11	-0.54	1749103.07	409515.07	39°37'18.2035"N	80°16'43.9678"W	0.56	258.095	0.03	0.02	4.20
250.00	0.330	133.800	250.00	0.06	-0.27	-0.52	1749103.09	409514.91	39°37'18.2019"N	80°16'43.9675"W	0.59	242.507	0.88	0.20	-202.80
300.00	0.310	206.400	300.00	-0.15	-0.49	-0.48	1749103.13	409514.69	39°37'18.1997"N	80°16'43.9670"W	0.69	224.147	0.76	-0.04	145.20
350.00	0.290	218.700	350.00	-0.25	-0.71	-0.62	1749102.99	409514.47	39°37'18.1976"N	80°16'43.9687"W	0.94	220.908	0.13	-0.04	24.60
400.00	0.320	213.200	400.00	-0.34	-0.93	-0.77	1749102.84	409514.26	39°37'18.1954"N	80°16'43.9707"W	1.21	219.788	0.08	0.06	-11.00
450.00	0.280	99.400	450.00	-0.48	-1.06	-0.73	1749102.88	409514.12	39°37'18.1941"N	80°16'43.9701"W	1.29	214.387	1.01	-0.08	-227.60
500.00	0.380	186.500	500.00	-0.69	-1.25	-0.63	1749102.98	409513.93	39°37'18.1922"N	80°16'43.9688"W	1.40	206.645	0.92	0.20	174.20
550.00	0.350	208.300	549.99	-0.89	-1.55	-0.72	1749102.89	409513.63	39°37'18.1893"N	80°16'43.9699"W	1.71	204.876	0.28	-0.06	43.60
600.00	0.150	297.600	599.99	-0.91	-1.65	-0.85	1749102.76	409513.53	39°37'18.1882"N	80°16'43.9716"W	1.86	207.174	0.76	-0.40	178.60
650.00	0.380	165.000	649.99	-1.01	-1.78	-0.86	1749102.75	409513.40	39°37'18.1870"N	80°16'43.9717"W	1.98	205.847	0.99	0.46	-265.20
700.00	0.290	153.500	699.99	-1.29	-2.06	-0.76	1749102.85	409513.12	39°37'18.1843"N	80°16'43.9704"W	2.19	200.389	0.22	-0.18	-23.00
750.00	0.220	249.800	749.99	-1.39	-2.20	-0.80	1749102.81	409512.98	39°37'18.1828"N	80°16'43.9709"W	2.34	199.912	0.77	-0.14	192.60
800.00	0.230	286.700	799.99	-1.29	-2.21	-0.98	1749102.63	409512.97	39°37'18.1828"N	80°16'43.9732"W	2.42	204.033	0.29	0.02	73.80
850.00	0.230	203.100	849.99	-1.27	-2.27	-1.12	1749102.49	409512.91	39°37'18.1821"N	80°16'43.9750"W	2.53	206.250	0.61	0.00	-167.20
900.00	0.310	200.200	899.99	-1.40	-2.49	-1.21	1749102.40	409512.69	39°37'18.1799"N	80°16'43.9760"W	2.77	205.840	0.16	0.16	-5.80
950.00	0.430	186.000	949.99	-1.63	-2.80	-1.27	1749102.34	409512.38	39°37'18.1768"N	80°16'43.9768"W	3.08	204.407	0.30	0.24	-28.40
1000.00	0.500	174.200	999.99	-1.97	-3.21	-1.27	1749102.34	409511.97	39°37'18.1728"N	80°16'43.9768"W	3.45	201.598	0.24	0.14	-23.60
1050.00	0.330	201.500	1049.99	-2.24	-3.56	-1.30	1749102.31	409511.62	39°37'18.1694"N	80°16'43.9771"W	3.79	200.075	0.51	-0.34	54.60
1100.00	0.290	230.500	1099.99	-2.34	-3.77	-1.45	1749102.16	409511.41	39°37'18.1672"N	80°16'43.9790"W	4.04	201.035	0.32	-0.08	58.00
1150.00	0.310	176.800	1149.99	-2.47	-3.99	-1.54	1749102.07	409511.19	39°37'18.1651"N	80°16'43.9801"W	4.27	201.125	0.54	0.04	-107.40
1200.00	0.270	138.400	1199.99	-2.70	-4.21	-1.45	1749102.16	409510.97	39°37'18.1629"N	80°16'43.9790"W	4.45	199.061	0.39	-0.08	-76.80
1300.00	0.280	287.400	1299.99	-2.74	-4.31	-1.53	1749102.08	409510.87	39°37'18.1619"N	80°16'43.9800"W	4.58	199.547	0.53	0.01	149.00
1350.00	0.290	241.800	1349.98	-2.64	-4.34	-1.76	1749101.85	409510.84	39°37'18.1616"N	80°16'43.9829"W	4.68	202.084	0.44	0.02	-91.20
1500.00	0.150	131.990	1533.98	-2.83	-4.72	-1.99	1749101.62	409510.46	39°37'18.1578"N	80°16'43.9858"W	5.12	202.880	0.20	-0.08	-59.68
1550.00	0.100	274.170	1596.98	-2.87	-4.77	-1.98	1749101.63	409510.41	39°37'18.1573"N	80°16'43.9857"W	5.17	202.593	0.38	-0.08	225.68

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
1691.00	0.280	202.390	1690.98	-2.95	-4.98	-2.15	1749101.46	409510.20	39°37'18.1553"N	80°16'43.9879"W	5.42	203.407	0.28	0.19	-76.36
1786.00	0.740	214.900	1785.98	-3.30	-5.69	-2.59	1749101.02	409509.49	39°37'18.1482"N	80°16'43.9934"W	6.26	204.488	0.50	0.48	13.17
1881.00	1.120	203.570	1880.97	-4.03	-7.05	-3.32	1749100.29	409508.13	39°37'18.1347"N	80°16'44.0025"W	7.79	205.195	0.44	0.40	-11.93
1975.00	1.140	198.720	1974.95	-5.10	-8.78	-3.98	1749099.63	409506.41	39°37'18.1176"N	80°16'44.0108"W	9.64	204.413	0.10	0.02	-5.16
2069.00	0.690	38.680	2068.94	-5.50	-9.22	-3.93	1749099.68	409505.96	39°37'18.1132"N	80°16'44.0101"W	10.02	203.085	1.92	-0.48	-170.26
2164.00	1.380	50.340	2163.93	-5.21	-8.04	-2.69	1749100.92	409507.14	39°37'18.1249"N	80°16'43.9944"W	8.48	198.502	0.76	0.73	12.27
2259.00	2.010	35.690	2258.89	-4.50	-5.96	-0.84	1749102.77	409509.22	39°37'18.1457"N	80°16'43.9710"W	6.02	188.010	0.80	0.66	-15.42
2354.00	3.130	33.550	2353.79	-2.90	-2.44	1.57	1749105.18	409512.74	39°37'18.1806"N	80°16'43.9406"W	2.90	147.341	1.18	1.18	-2.25
2448.00	4.400	27.350	2447.58	-0.16	2.90	4.64	1749108.25	409518.08	39°37'18.2337"N	80°16'43.9019"W	5.47	58.029	1.42	1.35	-6.60
2543.00	3.570	22.030	2542.35	3.28	8.88	7.43	1749111.04	409524.06	39°37'18.2930"N	80°16'43.8670"W	11.57	39.916	0.96	-0.87	-5.60
2639.00	2.450	7.510	2638.22	6.51	13.68	8.81	1749112.42	409528.86	39°37'18.3406"N	80°16'43.8498"W	16.27	32.794	1.40	-1.17	-15.12
2742.00	2.050	343.840	2741.14	9.92	17.63	8.59	1749112.20	409532.81	39°37'18.3796"N	80°16'43.8531"W	19.61	25.973	0.97	-0.39	-22.98
2837.00	2.150	327.810	2836.08	13.33	20.77	7.17	1749110.78	409535.95	39°37'18.4106"N	80°16'43.8716"W	21.98	19.036	0.63	0.11	-16.87
2932.00	0.420	332.770	2931.06	15.45	22.59	6.06	1749109.67	409537.77	39°37'18.4284"N	80°16'43.8860"W	23.39	15.013	1.82	-1.82	5.22
3027.00	0.900	252.770	3026.05	16.01	22.68	5.19	1749108.80	409537.86	39°37'18.4292"N	80°16'43.8971"W	23.27	12.882	0.97	0.51	-84.21
3121.00	0.770	260.340	3120.04	16.48	22.36	3.86	1749107.47	409537.53	39°37'18.4259"N	80°16'43.9141"W	22.69	9.795	0.18	-0.14	8.05
3216.00	0.920	208.300	3215.03	16.38	21.58	2.87	1749106.48	409536.76	39°37'18.4181"N	80°16'43.9266"W	21.77	7.572	0.79	0.16	-54.78
3310.00	0.620	260.780	3309.02	16.23	20.83	2.01	1749105.62	409536.01	39°37'18.4107"N	80°16'43.9375"W	20.93	5.508	0.78	-0.32	55.83
3407.00	0.750	236.000	3406.02	16.44	20.39	0.96	1749104.57	409535.57	39°37'18.4062"N	80°16'43.9508"W	20.41	2.707	0.33	0.13	-25.55
3501.00	0.500	191.500	3500.01	16.15	19.65	0.37	1749103.98	409534.82	39°37'18.3988"N	80°16'43.9583"W	19.65	1.086	0.56	-0.27	-47.34
3596.00	0.680	216.460	3595.01	15.67	18.79	-0.05	1749103.56	409533.96	39°37'18.3903"N	80°16'43.9636"W	18.79	359.862	0.33	0.19	26.27
3691.00	0.320	216.120	3690.00	15.38	18.12	-0.54	1749103.07	409533.30	39°37'18.3837"N	80°16'43.9698"W	18.13	358.303	0.38	-0.38	-0.36
3786.00	0.420	186.510	3785.00	15.03	17.56	-0.73	1749102.88	409532.74	39°37'18.3781"N	80°16'43.9722"W	17.57	357.611	0.22	0.11	-31.17
3879.00	1.560	201.290	3877.98	14.04	16.04	-1.23	1749102.38	409531.22	39°37'18.3631"N	80°16'43.9784"W	16.09	355.612	1.25	1.23	15.89
3974.00	3.920	189.690	3972.87	10.93	11.63	-2.25	1749101.36	409526.81	39°37'18.3194"N	80°16'43.9909"W	11.85	349.068	2.54	2.48	-12.21
4069.00	5.580	195.160	4067.54	5.52	3.97	-4.00	1749099.61	409519.15	39°37'18.2436"N	80°16'44.0125"W	5.64	314.801	1.81	1.75	5.76
4164.00	7.600	191.170	4164.89	-2.21	-6.98	-6.50	1749097.11	409508.20	39°37'18.1351"N	80°16'44.0432"W	9.54	222.959	2.11	2.06	-4.07
4259.00	8.890	190.040	4258.90	-11.98	-20.38	-9.00	1749094.61	409494.81	39°37'18.0025"N	80°16'44.0737"W	22.27	203.831	1.37	1.36	-1.19
4354.00	8.460	187.970	4352.82	-22.52	-34.52	-11.25	1749092.36	409480.66	39°37'17.8625"N	80°16'44.1008"W	36.31	198.047	0.56	-0.45	-2.18
4449.00	9.160	192.880	4446.70	-32.95	-48.82	-13.90	1749089.71	409466.37	39°37'17.7210"N	80°16'44.1332"W	50.76	195.897	1.08	0.74	5.17



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'

Page 4 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
4546.00	8.910	190.430	4539.53	-43.33	-63.27	-16.89	1749086.72	409451.91	39°37'17.5779"N	80°16'44.1697"W	65.49	194.946	0.49	-0.27	-2.61
4640.00	8.800	195.180	4632.41	-53.29	-77.37	-20.09	1749083.52	409437.82	39°37'17.4383"N	80°16'44.2091"W	79.93	194.556	0.79	-0.12	5.05
4734.00	9.240	190.870	4725.25	-63.41	-91.72	-23.40	1749080.22	409423.47	39°37'17.2962"N	80°16'44.2497"W	94.66	194.310	0.86	0.47	-4.59
4828.00	10.310	191.850	4817.89	-74.69	-107.36	-26.55	1749077.07	409407.82	39°37'17.1413"N	80°16'44.2882"W	110.60	193.888	1.15	1.14	1.04
4922.00	9.990	190.720	4910.41	-86.42	-123.61	-29.79	1749073.82	409391.58	39°37'16.9805"N	80°16'44.3279"W	127.15	193.550	0.40	-0.34	-1.20
5019.00	8.500	186.140	5006.15	-97.95	-139.00	-32.12	1749071.49	409376.18	39°37'16.8282"N	80°16'44.3560"W	142.67	193.012	1.71	-1.54	-4.72
5115.00	8.940	188.890	5101.04	-108.90	-153.43	-34.03	1749069.58	409361.76	39°37'16.6855"N	80°16'44.3788"W	157.16	192.507	0.63	0.46	2.86
5209.00	8.300	183.760	5193.98	-119.67	-167.41	-35.61	1749068.00	409347.78	39°37'16.5471"N	80°16'44.3974"W	171.16	192.007	1.06	-0.68	-5.46
5304.00	8.250	190.090	5288.00	-130.05	-180.97	-37.25	1749066.36	409334.22	39°37'16.4130"N	80°16'44.4169"W	184.76	191.632	0.96	-0.05	6.66
5398.00	7.740	185.700	5381.08	-139.82	-193.91	-39.06	1749064.55	409321.29	39°37'16.2850"N	80°16'44.4386"W	197.80	191.390	0.85	-0.54	-4.67
5493.00	7.400	196.020	5475.26	-148.73	-206.15	-41.39	1749062.23	409309.04	39°37'16.1638"N	80°16'44.4669"W	210.26	191.351	1.47	-0.36	10.86
5588.00	8.970	195.990	5569.29	-157.49	-219.15	-45.11	1749058.50	409296.04	39°37'16.0350"N	80°16'44.5131"W	223.75	191.632	1.65	1.65	-0.03
5683.00	9.250	193.130	5663.09	-167.52	-233.71	-48.89	1749054.72	409281.49	39°37'15.8908"N	80°16'44.5597"W	238.77	191.815	0.56	0.29	-3.01
5781.00	9.820	190.620	5759.74	-178.90	-249.59	-52.22	1749051.39	409265.60	39°37'15.7335"N	80°16'44.6005"W	255.00	191.817	0.72	0.58	-2.56
5876.00	9.520	189.570	5853.39	-190.43	-265.30	-55.02	1749048.60	409249.89	39°37'15.5781"N	80°16'44.6346"W	270.95	191.716	0.37	-0.32	-1.11
5971.00	10.100	189.490	5947.00	-202.24	-281.26	-57.70	1749045.92	409233.93	39°37'15.4201"N	80°16'44.6670"W	287.12	191.592	0.61	0.61	-0.08
6065.00	10.530	190.930	6039.48	-214.37	-297.83	-60.68	1749042.93	409217.37	39°37'15.2561"N	80°16'44.7034"W	303.95	191.517	0.53	0.46	1.53
6159.00	9.400	184.220	6132.06	-226.55	-313.92	-62.88	1749040.74	409201.28	39°37'15.0969"N	80°16'44.7296"W	320.15	191.327	1.72	-1.20	-7.14
6253.00	9.210	183.670	6224.82	-238.60	-329.08	-63.92	1749039.69	409186.12	39°37'14.9470"N	80°16'44.7413"W	335.23	190.993	0.22	-0.20	-0.59
6348.00	9.530	188.310	6318.56	-250.50	-344.45	-65.55	1749038.07	409170.75	39°37'14.7950"N	80°16'44.7604"W	350.63	190.774	0.86	0.34	4.88
6443.00	8.850	186.100	6412.34	-261.97	-359.50	-67.46	1749036.15	409155.70	39°37'14.6461"N	80°16'44.7831"W	365.77	190.628	0.81	-0.72	-2.33
6537.00	8.130	189.460	6505.31	-272.38	-373.24	-69.32	1749034.29	409141.96	39°37'14.5101"N	80°16'44.8054"W	379.63	190.522	0.93	-0.77	3.57
6632.00	8.100	207.110	6599.37	-280.56	-385.83	-73.48	1749030.14	409129.37	39°37'14.3853"N	80°16'44.8571"W	392.76	190.782	2.61	-0.03	18.58
6727.00	8.460	206.050	6693.38	-287.36	-398.07	-79.60	1749024.02	409117.14	39°37'14.2639"N	80°16'44.9339"W	405.95	191.307	0.41	0.38	-1.12
6825.00	9.160	205.400	6790.22	-295.01	-411.59	-86.11	1749017.51	409103.62	39°37'14.1297"N	80°16'45.0156"W	420.50	191.816	0.72	0.71	-0.66
6920.00	10.530	204.880	6883.82	-303.44	-426.29	-93.00	1749010.61	409088.91	39°37'13.9838"N	80°16'45.1021"W	436.32	192.307	1.45	1.44	-0.55
7016.00	9.670	203.060	6977.35	-312.36	-441.51	-99.78	1749003.84	409073.70	39°37'13.8328"N	80°16'45.1870"W	452.65	192.735	0.97	-0.91	-1.92
7115.00	8.900	203.360	7085.91	-322.06	-457.82	-106.77	1748996.84	409057.38	39°37'13.6710"N	80°16'45.2746"W	470.11	193.128	0.70	-0.70	0.27
7210.00	9.370	221.020	7179.72	-328.12	-470.41	-114.76	1748988.85	409044.80	39°37'13.5460"N	80°16'45.3753"W	484.20	193.710	2.98	0.49	18.59
7310.00	9.410	250.470	7272.52	-328.27	-478.75	-127.04	1748976.58	409036.46	39°37'13.4624"N	80°16'45.5312"W	495.32	194.861	5.06	0.04	31.33



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
7408.00	9.750	280.070	7365.26	-320.89	-479.93	-142.12	1748961.49	409035.28	39°37'13.4495"N	80°16'45.7239"W	500.53	196.496	5.20	0.36	31.49
7503.00	10.000	300.760	7458.88	-307.89	-474.31	-157.14	1748946.48	409040.70	39°37'13.5038"N	80°16'45.9164"W	499.66	198.330	3.72	0.26	21.78
7598.00	14.920	308.430	7551.62	-288.81	-462.48	-173.82	1748929.80	409052.93	39°37'13.6193"N	80°16'46.1308"W	494.06	200.598	5.45	5.18	8.07
7693.00	22.900	316.080	7641.44	-258.93	-441.52	-196.26	1748907.36	409073.68	39°37'13.8244"N	80°16'46.4199"W	483.18	203.965	8.78	8.40	8.05
7788.00	29.660	323.460	7726.59	-217.21	-409.28	-223.11	1748880.51	409105.93	39°37'14.1408"N	80°16'46.7666"W	466.14	208.596	7.89	7.12	7.77
7883.00	37.760	324.930	7805.55	-184.57	-366.52	-253.87	1748849.75	409148.69	39°37'14.5607"N	80°16'47.1644"W	445.85	214.709	8.57	8.53	1.55
7977.00	43.860	322.640	7876.67	-103.25	-317.03	-290.20	1748813.43	409198.17	39°37'15.0467"N	80°16'47.6342"W	429.80	222.470	6.67	6.48	-2.44
8071.00	51.600	320.890	7939.86	-33.98	-262.48	-333.26	1748770.37	409252.71	39°37'15.5820"N	80°16'48.1905"W	424.22	231.775	8.36	8.24	-1.86
8165.00	60.790	321.560	7992.10	43.73	-201.64	-382.11	1748721.53	409313.55	39°37'16.1791"N	80°16'48.8214"W	432.05	242.179	9.79	9.78	0.71
8260.00	70.260	322.310	8031.42	129.84	-133.63	-435.34	1748668.30	409381.56	39°37'16.8467"N	80°16'49.5092"W	455.39	252.935	9.99	9.97	0.79
8355.00	78.630	323.510	8056.87	221.11	-60.68	-490.47	1748613.17	409454.50	39°37'17.5629"N	80°16'50.2218"W	494.21	262.947	8.89	8.81	1.26
8449.00	88.890	324.110	8067.08	314.33	14.63	-545.56	1748558.08	409529.81	39°37'18.3025"N	80°16'50.9342"W	545.76	271.536	10.93	10.91	0.64
8544.00	91.080	323.760	8067.10	409.24	91.42	-601.49	1748502.16	409606.60	39°37'19.0565"N	80°16'51.6574"W	608.39	278.642	2.33	2.31	-0.37
8639.00	91.350	326.090	8065.09	504.18	169.15	-656.06	1748447.59	409684.32	39°37'19.8200"N	80°16'52.3635"W	677.52	284.457	2.47	0.28	2.45
8734.00	90.030	326.220	8063.94	599.17	248.04	-708.97	1748394.69	409763.21	39°37'20.5951"N	80°16'53.0483"W	751.11	289.283	1.40	-1.39	0.14
8829.00	90.180	326.300	8063.77	694.17	327.04	-761.73	1748341.92	409842.20	39°37'21.3713"N	80°16'53.7314"W	828.97	293.236	0.18	0.16	0.08
8924.00	90.340	326.340	8063.34	789.17	406.09	-814.41	1748289.25	409921.25	39°37'22.1480"N	80°16'54.4134"W	910.05	296.502	0.17	0.17	0.04
9018.00	89.940	326.000	8063.11	883.17	484.18	-866.75	1748236.92	409999.33	39°37'22.9152"N	80°16'55.0908"W	992.81	299.188	0.56	-0.43	-0.36
9113.00	89.600	325.890	8063.49	978.17	562.89	-919.95	1748183.72	410078.03	39°37'23.6884"N	80°16'55.7794"W	1078.49	301.461	0.38	-0.36	-0.12
9208.00	88.800	325.710	8064.82	1073.15	641.45	-973.34	1748130.33	410156.59	39°37'24.4602"N	80°16'56.4705"W	1165.69	303.386	0.86	-0.84	-0.19
9303.00	88.680	326.130	8066.90	1168.13	720.11	-1026.56	1748077.12	410235.25	39°37'25.2331"N	80°16'57.1594"W	1253.95	305.049	0.46	-0.13	0.44
9397.00	85.840	324.800	8071.40	1262.00	797.45	-1079.78	1748023.90	410312.58	39°37'25.9928"N	80°16'57.8481"W	1342.33	306.447	3.34	-3.02	-1.41
9492.00	86.800	325.920	8077.49	1356.78	875.45	-1133.67	1747970.01	410390.58	39°37'26.7590"N	80°16'58.5454"W	1432.34	307.676	1.55	1.01	1.18
9587.00	87.110	327.340	8082.54	1451.64	954.67	-1185.84	1747917.84	410469.79	39°37'27.5374"N	80°16'59.2210"W	1522.38	308.836	1.53	0.33	1.49
9681.00	86.030	325.820	8088.17	1545.47	1032.99	-1237.52	1747866.16	410548.10	39°37'28.3069"N	80°16'59.8902"W	1611.99	309.853	1.98	-1.15	-1.62
9776.00	85.810	327.090	8094.93	1640.23	1111.96	-1289.88	1747813.81	410627.07	39°37'29.0829"N	80°17'0.5681"W	1703.01	310.763	1.35	-0.23	1.34
9870.00	85.440	326.320	8102.10	1733.95	1190.30	-1341.33	1747762.36	410705.41	39°37'29.8526"N	80°17'1.2344"W	1793.32	311.586	0.91	-0.39	-0.82
9965.00	85.410	325.780	8109.67	1828.65	1268.86	-1394.22	1747709.48	410783.96	39°37'30.6244"N	80°17'1.9190"W	1885.16	312.305	0.57	-0.03	-0.57
10060.00	85.660	325.840	8116.99	1922.36	1346.38	-1446.88	1747656.82	410861.47	39°37'31.3859"N	80°17'2.6006"W	1976.41	312.939	0.27	0.27	0.06
10164.00	86.310	326.130	8123.64	2017.12	1424.93	-1499.89	1747603.81	410940.02	39°37'32.1577"N	80°17'3.2869"W	2068.84	313.532	0.75	0.68	0.31



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
10249.00	86.640	326.050	8129.48	2111.94	1503.62	-1552.79	1747550.91	411018.71	39°37'32.9308"N	80°17'3.9717"W	2161.49	314.078	0.36	0.35	-0.08
10343.00	86.860	326.520	8134.81	2205.79	1581.68	-1604.88	1747498.82	411096.77	39°37'33.6978"N	80°17'4.6461"W	2253.30	314.583	0.55	0.23	0.50
10438.00	87.050	326.610	8139.86	2300.65	1660.85	-1657.15	1747446.56	411175.93	39°37'34.4756"N	80°17'5.3230"W	2346.19	315.064	0.22	0.20	0.09
10534.00	87.630	325.980	8144.32	2396.55	1740.63	-1710.37	1747393.35	411255.70	39°37'35.2594"N	80°17'6.0119"W	2440.32	315.502	0.89	0.60	-0.66
10629.00	86.740	325.380	8148.98	2491.43	1818.99	-1763.87	1747339.85	411334.06	39°37'36.0292"N	80°17'6.7044"W	2533.76	315.881	1.13	-0.94	-0.63
10725.00	87.450	325.590	8153.85	2587.29	1897.99	-1818.19	1747285.53	411413.05	39°37'36.8053"N	80°17'7.4074"W	2628.34	316.230	0.77	0.74	0.22
10819.00	87.910	325.960	8157.65	2681.21	1975.65	-1871.02	1747232.71	411490.71	39°37'37.5682"N	80°17'8.0912"W	2721.01	316.558	0.63	0.49	0.39
10914.00	88.580	325.940	8160.56	2776.16	2054.32	-1924.18	1747179.54	411569.38	39°37'38.3411"N	80°17'8.7795"W	2814.73	316.874	0.71	0.71	-0.02
11009.00	88.370	325.710	8163.09	2871.12	2132.89	-1977.53	1747126.20	411647.94	39°37'39.1129"N	80°17'9.4700"W	2908.58	317.165	0.33	-0.22	-0.24
11103.00	88.710	325.510	8165.48	2965.08	2210.44	-2030.60	1747073.13	411725.48	39°37'39.8747"N	80°17'10.1570"W	3001.56	317.428	0.42	0.36	-0.21
11198.00	88.860	326.960	8167.50	3060.06	2289.39	-2083.39	1747020.35	411804.43	39°37'40.6504"N	80°17'10.8405"W	3095.45	317.697	1.53	0.16	1.53
11293.00	88.710	327.070	8169.51	3155.03	2369.06	-2135.10	1746968.64	411884.10	39°37'41.4333"N	80°17'11.5102"W	3189.22	317.973	0.20	-0.16	0.12
11387.00	89.540	327.090	8170.95	3249.01	2447.96	-2186.18	1746917.56	411962.99	39°37'42.2085"N	80°17'12.1716"W	3282.05	318.233	0.88	0.88	0.02
11482.00	90.430	327.000	8170.97	3344.00	2527.85	-2237.58	1746866.17	412042.88	39°37'42.9936"N	80°17'12.8377"W	3375.91	318.486	0.99	0.94	0.33
11576.00	90.060	326.700	8170.57	3437.99	2606.73	-2288.70	1746815.05	412121.75	39°37'43.7687"N	80°17'13.4999"W	3468.89	318.717	0.84	-0.39	-0.74
11671.00	90.400	327.070	8170.19	3532.99	2686.30	-2340.60	1746763.15	412201.31	39°37'44.5506"N	80°17'14.1721"W	3562.95	318.934	0.53	0.36	0.39
11766.00	90.550	326.600	8169.40	3627.98	2765.82	-2392.57	1746711.18	412280.83	39°37'45.3320"N	80°17'14.8452"W	3657.07	319.139	0.52	0.16	-0.49
11860.00	91.080	326.800	8168.07	3721.97	2844.38	-2444.18	1746659.58	412359.38	39°37'46.1039"N	80°17'15.5135"W	3750.26	319.328	0.60	0.56	0.21
11955.00	90.120	327.220	8167.07	3816.96	2924.06	-2495.90	1746607.86	412439.06	39°37'46.8868"N	80°17'16.1834"W	3844.43	319.517	1.10	-1.01	0.44
12050.00	89.540	327.100	8167.35	3911.95	3003.87	-2547.42	1746556.35	412518.87	39°37'47.6711"N	80°17'16.8508"W	3938.60	319.701	0.62	-0.61	-0.13
12145.00	89.540	326.870	8168.11	4006.94	3083.53	-2599.18	1746504.59	412598.52	39°37'48.4539"N	80°17'17.5213"W	4032.85	319.872	0.24	0.00	-0.24
12240.00	90.000	326.600	8168.50	4101.94	3162.96	-2651.28	1746452.49	412677.95	39°37'49.2343"N	80°17'18.1961"W	4127.18	320.029	0.56	0.48	-0.28
12335.00	89.970	327.120	8168.52	4196.93	3242.51	-2703.22	1746400.56	412757.49	39°37'50.0160"N	80°17'18.8688"W	4221.52	320.183	0.55	-0.03	0.55
12430.00	91.290	327.140	8167.48	4291.92	3322.29	-2754.77	1746349.00	412837.27	39°37'50.8000"N	80°17'19.5367"W	4315.83	320.335	1.39	1.39	0.02
12524.00	91.020	327.010	8165.58	4385.89	3401.18	-2805.86	1746297.93	412916.15	39°37'51.5751"N	80°17'20.1984"W	4409.18	320.479	0.32	-0.29	-0.14
12619.00	91.510	327.010	8163.48	4480.86	3480.84	-2857.57	1746246.21	412995.81	39°37'52.3579"N	80°17'20.8683"W	4503.55	320.616	0.52	0.52	0.00
12714.00	91.390	327.110	8161.08	4575.82	3560.54	-2909.21	1746194.58	413075.51	39°37'53.1411"N	80°17'21.5372"W	4597.93	320.749	0.16	-0.13	0.11
12809.00	91.600	327.200	8158.60	4670.78	3640.33	-2960.72	1746143.07	413155.29	39°37'53.9251"N	80°17'22.2045"W	4692.32	320.878	0.24	0.22	0.09
12904.00	91.320	325.810	8156.18	4765.75	3719.53	-3013.13	1746090.67	413234.48	39°37'54.7032"N	80°17'22.8832"W	4786.84	320.990	1.49	-0.29	-1.46
13000.00	91.630	325.890	8153.74	4860.71	3798.12	-3066.44	1746037.36	413313.07	39°37'55.4753"N	80°17'23.5734"W	4881.47	321.084	0.34	0.33	0.08

2024



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
13093.00	91.600	325.780	8151.09	4954.67	3875.87	-3119.21	1745984.59	413390.81	39°37'56.2390"N	80°17'24.2565"W	4975.12	321.174	0.12	-0.03	-0.12
13188.00	91.450	325.960	8148.56	5049.63	3954.48	-3172.49	1745991.31	413469.41	39°37'57.0113"N	80°17'24.9464"W	5069.77	321.262	0.25	-0.16	0.19
13282.00	91.290	325.710	8146.31	5143.60	4032.23	-3225.26	1745878.54	413547.17	39°37'57.7751"N	80°17'25.6296"W	5163.45	321.345	0.32	-0.17	-0.27
13378.00	91.480	326.000	8143.99	5239.57	4111.66	-3279.13	1745824.68	413626.59	39°37'58.5554"N	80°17'26.3270"W	5259.13	321.427	0.36	0.20	0.30
13472.00	91.850	326.910	8141.26	5333.53	4189.52	-3331.73	1745772.08	413704.44	39°37'59.3202"N	80°17'27.0081"W	5352.80	321.506	0.41	0.39	-0.10
13566.00	92.370	325.890	8137.80	5427.46	4267.30	-3384.40	1745719.42	413782.22	39°38'0.0843"N	80°17'27.6900"W	5446.47	321.582	0.55	0.55	-0.02
13661.00	92.460	326.410	8133.80	5522.38	4346.13	-3437.27	1745666.55	413861.04	39°38'0.8588"N	80°17'28.3746"W	5541.09	321.660	0.56	0.09	0.55
13756.00	91.940	326.440	8130.15	5617.31	4425.22	-3489.77	1745614.06	413940.13	39°38'1.6358"N	80°17'29.0545"W	5635.69	321.740	0.55	-0.55	0.03
13850.00	92.030	326.450	8126.89	5711.25	4503.51	-3541.69	1745562.13	414018.41	39°38'2.4050"N	80°17'29.7270"W	5729.33	321.817	0.10	0.10	0.01
13945.00	91.910	326.410	8123.63	5806.19	4582.62	-3594.19	1745509.64	414097.52	39°38'3.1822"N	80°17'30.4069"W	5823.97	321.893	0.13	-0.13	-0.04
14040.00	91.910	325.870	8120.46	5901.14	4661.46	-3647.09	1745456.74	414176.35	39°38'3.9568"N	80°17'31.0919"W	5918.66	321.961	0.57	0.00	-0.57
14135.00	92.000	326.440	8117.22	5996.08	4740.32	-3699.92	1745403.86	414255.21	39°38'4.7315"N	80°17'31.7766"W	6013.35	322.027	0.61	0.09	0.60
14229.00	91.230	326.280	8114.57	6090.04	4818.54	-3752.02	1745351.82	414333.43	39°38'5.5000"N	80°17'32.4508"W	6107.05	322.093	0.84	-0.82	-0.17
14324.00	91.200	326.550	8112.56	6185.02	4897.67	-3804.56	1745299.28	414412.56	39°38'6.2774"N	80°17'33.1312"W	6201.76	322.160	0.29	-0.03	0.28
14419.00	91.050	326.150	8110.69	6280.00	4976.73	-3857.20	1745246.65	414491.61	39°38'7.0542"N	80°17'33.8128"W	6296.49	322.223	0.45	-0.16	-0.42
14514.00	91.910	326.560	8108.24	6374.97	5055.79	-3909.81	1745194.04	414570.66	39°38'7.8309"N	80°17'34.4942"W	6391.22	322.284	1.00	0.91	0.43
14609.00	92.000	325.990	8105.00	6469.92	5134.76	-3962.53	1745141.33	414649.62	39°38'8.6067"N	80°17'35.1769"W	6485.93	322.342	0.61	0.09	-0.60
14703.00	91.790	326.030	8101.89	6563.86	5212.65	-4015.05	1745088.81	414727.51	39°38'9.3719"N	80°17'35.8570"W	6579.69	322.395	0.23	-0.22	0.04
14798.00	91.510	325.410	8099.15	6658.82	5291.12	-4068.53	1745035.33	414805.97	39°38'10.1427"N	80°17'36.5495"W	6674.50	322.442	0.72	-0.29	-0.65
14893.00	91.570	325.700	8096.60	6753.77	5369.43	-4122.25	1744981.62	414884.28	39°38'10.9119"N	80°17'37.2449"W	6769.32	322.486	0.31	0.06	0.31
14988.00	91.820	326.570	8093.79	6848.73	5448.28	-4175.16	1744928.71	414963.13	39°38'11.6865"N	80°17'37.9301"W	6864.09	322.536	0.95	0.26	0.92
15082.00	91.910	326.550	8090.73	6942.68	5526.68	-4226.93	1744875.94	415041.52	39°38'12.4568"N	80°17'38.6007"W	6957.81	322.590	0.10	0.10	-0.02
15176.00	91.970	326.340	8087.55	7036.62	5604.97	-4278.86	1744825.01	415119.81	39°38'13.2259"N	80°17'39.2733"W	7051.55	322.642	0.23	0.06	-0.22
15271.00	91.450	325.370	8084.71	7131.58	5683.56	-4332.16	1744771.72	415198.39	39°38'13.9979"N	80°17'39.9634"W	7146.36	322.684	1.16	-0.56	-1.02
15365.00	91.020	326.500	8082.69	7225.55	5761.41	-4384.80	1744719.08	415276.24	39°38'14.7627"N	80°17'40.6450"W	7240.18	322.727	1.29	-0.46	1.20
15459.00	90.620	326.030	8081.31	7321.54	5841.23	-4438.11	1744665.78	415356.06	39°38'15.5469"N	80°17'41.3354"W	7335.99	322.773	0.64	-0.42	-0.49
15553.00	90.890	326.630	8080.06	7416.53	5920.29	-4490.77	1744613.12	415435.11	39°38'16.3236"N	80°17'42.0175"W	7430.80	322.818	0.69	0.28	0.63
15647.00	90.890	326.930	8078.59	7511.52	5999.76	-4542.81	1744561.08	415514.57	39°38'17.1044"N	80°17'42.6917"W	7525.57	322.868	0.32	0.00	0.32
15741.00	90.520	324.730	8077.42	7606.50	6078.34	-4596.16	1744507.73	415593.15	39°38'17.8764"N	80°17'43.3825"W	7620.43	322.905	2.35	-0.39	-2.32
15835.00	90.650	325.080	8076.45	7701.46	6156.07	-4650.77	1744453.12	415670.87	39°38'18.6397"N	80°17'44.0894"W	7715.37	322.930	0.39	0.14	0.37



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
15935.00	91.110	325.910	8075.00	7795.44	6233.52	-4704.02	1744399.88	415748.32	39°38'19.4005"N	80°17'44.7787"W	7809.26	322.961	1.01	0.49	0.88
16029.00	90.860	326.230	8073.39	7889.43	6311.50	-4756.48	1744347.42	415826.30	39°38'20.1665"N	80°17'45.4581"W	7903.11	322.998	0.43	-0.27	0.34
16125.00	90.520	326.070	8072.23	7985.42	6391.23	-4809.95	1744293.96	415906.02	39°38'20.9497"N	80°17'46.1505"W	7998.96	323.035	0.39	-0.35	-0.17
16220.00	90.520	325.460	8071.37	8080.41	6469.76	-4863.39	1744240.52	415984.55	39°38'21.7212"N	80°17'46.8426"W	8093.85	323.067	0.64	0.00	-0.64
16314.00	89.940	326.190	8070.99	8174.40	6547.53	-4916.19	1744187.72	416062.31	39°38'22.4851"N	80°17'47.5263"W	8187.74	323.099	0.99	-0.62	0.78
16409.00	90.620	326.450	8070.53	8269.40	6626.58	-4968.87	1744135.04	416141.36	39°38'23.2617"N	80°17'48.2086"W	8282.59	323.136	0.77	0.72	0.27
16503.00	90.400	326.150	8069.69	8363.40	6704.78	-5021.03	1744082.89	416219.55	39°38'24.0300"N	80°17'48.8841"W	8376.44	323.171	0.40	-0.23	-0.32
16597.00	90.430	326.180	8069.01	8457.39	6782.86	-5073.37	1744030.56	416297.63	39°38'24.7970"N	80°17'49.5620"W	8470.32	323.205	0.05	0.03	0.03
16692.00	90.400	326.010	8068.32	8552.39	6861.71	-5126.36	1743977.57	416376.47	39°38'25.5715"N	80°17'50.2483"W	8565.19	323.237	0.18	-0.03	-0.18
16787.00	90.370	326.410	8067.68	8647.39	6940.66	-5179.19	1743924.74	416455.41	39°38'26.3471"N	80°17'50.9326"W	8660.06	323.269	0.42	-0.03	0.42
16882.00	90.340	326.250	8067.09	8742.38	7019.72	-5231.86	1743872.07	416534.47	39°38'27.1238"N	80°17'51.6148"W	8754.93	323.303	0.17	-0.03	-0.17
16976.00	90.770	326.340	8066.18	8836.38	7097.91	-5284.02	1743819.92	416612.66	39°38'27.8920"N	80°17'52.2904"W	8848.80	323.334	0.47	0.46	0.10
17070.00	90.400	326.700	8065.22	8930.37	7175.86	-5336.55	1743767.39	416690.60	39°38'28.6577"N	80°17'52.9707"W	8942.69	323.363	0.79	-0.39	-0.68
17164.00	89.940	325.840	8064.95	9024.37	7253.57	-5389.43	1743714.51	416768.31	39°38'29.4211"N	80°17'53.6554"W	9036.61	323.388	0.51	-0.49	0.15
17259.00	90.460	326.270	8064.61	9119.36	7332.38	-5442.47	1743661.47	416847.11	39°38'30.1953"N	80°17'54.3425"W	9131.50	323.415	0.71	0.55	0.45
17354.00	89.720	326.970	8064.46	9214.36	7411.71	-5494.74	1743609.21	416926.44	39°38'30.9746"N	80°17'55.0196"W	9226.36	323.448	1.07	-0.78	0.74
17449.00	90.120	327.200	8064.60	9309.35	7491.46	-5546.36	1743557.59	417006.18	39°38'31.7582"N	80°17'55.6885"W	9321.17	323.485	0.49	0.42	0.24
17543.00	90.830	326.920	8063.82	9403.34	7570.35	-5597.47	1743506.48	417085.06	39°38'32.5333"N	80°17'56.3508"W	9414.98	323.521	0.81	0.76	-0.30
17638.00	90.650	327.120	8062.59	9498.33	7650.03	-5649.18	1743454.77	417164.74	39°38'33.3163"N	80°17'57.0209"W	9509.80	323.556	0.28	-0.19	0.21
17733.00	90.310	326.870	8061.80	9593.32	7729.70	-5700.93	1743403.03	417244.40	39°38'34.0990"N	80°17'57.6914"W	9604.62	323.590	0.44	-0.36	-0.26
17827.00	90.000	326.860	8061.54	9687.32	7808.41	-5752.31	1743351.65	417323.11	39°38'34.8724"N	80°17'58.3571"W	9698.47	323.622	0.33	-0.33	-0.01
17923.00	90.090	326.990	8061.47	9783.31	7888.86	-5804.70	1743299.26	417403.55	39°38'35.6628"N	80°17'59.0360"W	9794.31	323.654	0.16	0.09	0.14
18018.00	89.910	326.760	8061.47	9878.31	7968.42	-5856.62	1743247.35	417483.11	39°38'36.4445"N	80°17'59.7087"W	9889.17	323.685	0.31	-0.19	-0.24
18113.00	90.180	326.690	8061.39	9973.31	8047.84	-5908.74	1743195.23	417562.53	39°38'37.2248"N	80°18'0.3840"W	9984.03	323.714	0.29	0.28	-0.07
18208.00	89.970	326.820	8061.27	10068.30	8127.29	-5960.82	1743143.16	417641.97	39°38'38.0054"N	80°18'1.0588"W	10078.90	323.742	0.26	-0.22	0.14
18303.00	90.250	327.010	8061.08	10163.30	8206.89	-6012.68	1743091.30	417721.57	39°38'38.7874"N	80°18'1.7308"W	10173.76	323.772	0.36	0.29	0.20
18398.00	90.180	326.880	8060.73	10258.29	8286.51	-6064.49	1743039.49	417801.18	39°38'39.5698"N	80°18'2.4022"W	10268.61	323.801	0.16	-0.07	-0.14
18493.00	90.250	327.010	8060.37	10353.29	8366.13	-6116.31	1742987.67	417880.80	39°38'40.3521"N	80°18'3.0736"W	10363.47	323.830	0.16	0.07	0.14
18587.00	90.030	327.120	8060.14	10447.28	8445.03	-6167.42	1742936.57	417959.69	39°38'41.1272"N	80°18'3.7359"W	10457.32	323.859	0.26	-0.23	0.12
18681.00	90.060	326.940	8060.07	10541.27	8523.89	-6218.57	1742885.42	418038.55	39°38'41.9021"N	80°18'4.3988"W	10551.18	323.888	0.19	0.03	-0.19



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
18776.00	89.910	326.790	8060.09	10636.27	8603.44	-6270.50	1742833.49	418118.09	39°38'42.6837"N	80°18'5.0717"W	10646.05	323.914	0.22	-0.16	-0.16
18870.00	90.060	326.860	8060.12	10730.27	8682.12	-6321.94	1742782.06	418196.77	39°38'43.4567"N	80°18'5.7382"W	10739.93	323.940	0.18	0.16	0.07
18965.00	89.850	326.970	8060.19	10825.26	8761.72	-6373.80	1742730.20	418276.36	39°38'44.2387"N	80°18'6.4102"W	10834.80	323.966	0.25	-0.22	0.12
19061.00	89.260	327.000	8060.94	10921.25	8842.21	-6426.10	1742677.90	418356.85	39°38'45.0296"N	80°18'7.0880"W	10930.67	323.992	0.62	-0.61	0.03
19156.00	89.200	326.590	8062.20	11015.24	8920.86	-6477.57	1742626.43	418435.49	39°38'45.8023"N	80°18'7.7550"W	11024.55	324.016	0.44	-0.06	-0.44
19250.00	89.630	327.390	8063.17	11110.23	9000.52	-6529.32	1742574.69	418515.14	39°38'46.5849"N	80°18'8.4257"W	11119.41	324.041	0.96	0.45	0.84
19344.00	89.510	326.820	8063.88	11204.22	9079.44	-6580.37	1742523.64	418594.07	39°38'47.3604"N	80°18'9.0873"W	11213.28	324.067	0.62	-0.13	-0.61
19439.00	89.480	326.780	8064.71	11299.21	9158.93	-6632.39	1742471.63	418673.55	39°38'48.1414"N	80°18'9.7613"W	11308.17	324.090	0.05	-0.03	-0.04
19534.00	90.060	326.630	8065.09	11394.21	9238.34	-6684.54	1742419.48	418752.95	39°38'48.9215"N	80°18'10.4370"W	11403.07	324.112	0.63	0.61	-0.16
19628.00	90.280	326.950	8064.82	11488.21	9316.98	-6736.02	1742368.00	418831.59	39°38'49.6942"N	80°18'11.1042"W	11496.97	324.134	0.41	0.23	0.34
19724.00	89.420	325.660	8065.07	11584.21	9396.85	-6789.28	1742314.74	418911.46	39°38'50.4788"N	80°18'11.7941"W	11592.89	324.152	1.61	-0.90	-1.34
19819.00	89.170	325.780	8066.24	11679.19	9475.34	-6842.78	1742261.24	418989.94	39°38'51.2498"N	80°18'12.4870"W	11687.85	324.164	0.29	-0.26	0.13
19913.00	89.140	326.090	8067.62	11773.18	9553.21	-6895.43	1742208.60	419067.80	39°38'52.0146"N	80°18'13.1690"W	11781.80	324.179	0.33	-0.03	0.33
20008.00	89.020	325.880	8069.15	11868.16	9631.94	-6948.57	1742155.47	419146.53	39°38'52.7880"N	80°18'13.8573"W	11876.74	324.193	0.25	-0.13	-0.22
20102.00	89.010	326.040	8070.76	11962.15	9709.82	-7001.18	1742102.86	419224.41	39°38'53.5530"N	80°18'14.5387"W	11970.68	324.207	0.17	-0.01	0.17
20197.00	89.540	326.530	8071.97	12057.14	9788.84	-7053.91	1742050.14	419303.42	39°38'54.3292"N	80°18'15.2218"W	12065.61	324.223	0.76	0.56	0.52
20291.00	90.090	325.950	8072.27	12151.14	9866.98	-7106.14	1741997.90	419381.56	39°38'55.0969"N	80°18'15.8985"W	12159.55	324.239	0.85	0.59	-0.62
20386.00	90.030	326.160	8072.17	12246.14	9945.79	-7159.19	1741944.86	419460.36	39°38'55.8710"N	80°18'16.5857"W	12254.50	324.253	0.23	-0.06	0.22
20481.00	89.910	326.220	8072.22	12341.14	10024.73	-7212.05	1741892.00	419539.29	39°38'56.6464"N	80°18'17.2705"W	12349.45	324.268	0.14	-0.13	0.06
20576.00	89.780	325.830	8072.48	12436.13	10103.51	-7265.14	1741838.91	419618.07	39°38'57.4203"N	80°18'17.9582"W	12444.40	324.281	0.43	-0.14	-0.41
20671.00	89.880	325.630	8072.76	12531.13	10182.02	-7318.63	1741785.42	419696.57	39°38'58.1914"N	80°18'18.6511"W	12539.37	324.292	0.24	0.11	-0.21
20766.00	89.910	325.890	8072.93	12626.12	10260.55	-7372.09	1741731.98	419775.10	39°38'58.9628"N	80°18'19.3434"W	12634.34	324.303	0.28	0.03	0.27
20862.00	89.480	325.200	8073.44	12722.11	10339.71	-7426.40	1741677.67	419854.26	39°38'59.7402"N	80°18'20.0468"W	12730.32	324.313	0.85	-0.45	-0.72
20957.00	89.600	325.760	8074.21	12817.10	10419.98	-7480.23	1741623.84	419932.52	39°39'00.5090"N	80°18'20.7440"W	12825.29	324.321	0.60	0.13	0.59
21052.00	89.660	325.840	8074.82	12912.09	10496.55	-7533.63	1741570.44	420011.09	39°39'01.2807"N	80°18'21.4357"W	12920.26	324.332	0.11	0.06	0.08
21148.00	90.180	325.910	8074.95	13008.08	10576.02	-7587.48	1741516.59	420090.55	39°39'02.0613"N	80°18'22.1333"W	13016.23	324.343	0.55	0.54	0.07
21243.00	89.780	325.210	8074.99	13103.07	10654.37	-7641.21	1741462.87	420168.90	39°39'02.8308"N	80°18'22.8291"W	13111.20	324.352	0.85	-0.42	-0.74
21338.00	90.000	325.820	8075.17	13198.06	10732.67	-7695.00	1741409.08	420247.20	39°39'03.5999"N	80°18'23.5257"W	13206.18	324.361	0.68	0.23	0.64
21433.00	90.030	326.380	8075.14	13293.06	10811.52	-7747.98	1741356.10	420326.04	39°39'04.3744"N	80°18'24.2122"W	13301.14	324.373	0.59	0.03	0.59
21529.00	90.220	326.150	8074.93	13389.06	10891.36	-7801.30	1741302.79	420405.87	39°39'05.1587"N	80°18'24.9029"W	13397.09	324.387	0.31	0.20	-0.24



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
21624.00	89.080	325.240	8075.52	13484.05	10969.83	-7854.84	1741249.25	420484.34	39°39'5.9294"N	80°18'25.5964"W	13492.06	324.396	1.54	-1.20	-0.96
21719.00	89.230	325.660	8076.92	13579.03	11048.07	-7908.71	1741195.39	420562.52	39°39'6.6978"N	80°18'26.2941"W	13587.03	324.403	0.47	0.16	0.44
21814.00	90.090	326.130	8077.48	13674.02	11126.72	-7981.97	1741142.12	420641.22	39°39'7.4704"N	80°18'26.9841"W	13682.00	324.414	1.03	0.91	0.49
21910.00	89.720	325.960	8077.64	13770.02	11206.35	-8015.59	1741088.51	420720.85	39°39'8.2526"N	80°18'27.6788"W	13777.96	324.425	0.42	-0.39	-0.18
22005.00	89.750	325.210	8078.08	13865.01	11284.72	-8059.29	1741034.82	420799.21	39°39'9.0223"N	80°18'28.3742"W	13872.94	324.433	0.79	0.03	-0.79
22100.00	89.970	326.890	8078.31	13960.00	11363.53	-8122.34	1740981.77	420878.01	39°39'9.7963"N	80°18'29.0615"W	13967.90	324.444	1.78	0.23	1.77
22196.00	89.910	326.830	8078.41	14056.00	11443.91	-8174.82	1740929.29	420958.39	39°39'10.5861"N	80°18'29.7417"W	14063.81	324.460	0.09	-0.06	-0.06
22291.00	89.820	326.690	8078.64	14151.00	11523.37	-8226.89	1740877.22	421037.84	39°39'11.3667"N	80°18'30.4166"W	14158.73	324.476	0.18	-0.09	-0.15
22387.00	89.510	325.990	8079.20	14246.99	11603.27	-8280.10	1740824.02	421117.74	39°39'12.1516"N	80°18'31.1060"W	14254.68	324.488	0.80	-0.32	-0.73
22482.00	89.570	326.030	8079.96	14341.99	11682.04	-8333.21	1740770.91	421196.50	39°39'12.9253"N	80°18'31.7941"W	14349.65	324.498	0.08	0.06	0.04
22577.00	89.940	326.340	8080.37	14436.99	11760.96	-8386.08	1740718.05	421275.42	39°39'13.7006"N	80°18'32.4791"W	14444.60	324.509	0.51	0.39	0.33
22673.00	89.630	326.290	8080.73	14532.99	11840.84	-8439.32	1740664.81	421355.30	39°39'14.4852"N	80°18'33.1690"W	14540.55	324.521	0.33	-0.32	-0.05
22768.00	89.880	326.690	8081.13	14627.99	11920.05	-8491.77	1740612.36	421434.50	39°39'15.2634"N	80°18'33.8486"W	14635.50	324.534	0.50	0.26	0.42
22864.00	89.820	327.090	8081.38	14723.98	12000.47	-8544.21	1740559.93	421514.91	39°39'16.0534"N	80°18'34.5283"W	14731.42	324.550	0.42	-0.06	0.42
22959.00	90.000	327.030	8081.53	14818.97	12080.19	-8596.86	1740508.27	421594.63	39°39'16.8367"N	80°18'35.1979"W	14826.33	324.566	0.20	0.19	-0.06
23059.00	90.000	327.030	8081.53	14918.97	12164.09	-8650.28	1740453.86	421678.52	39°39'17.6609"N	80°18'35.9034"W	14926.23	324.582	0.00	0.00	0.00
23159.00	90.000	327.030	8081.53	15018.96	12247.98	-8704.70	1740399.44	421762.41	39°39'18.4852"N	80°18'36.6088"W	15026.14	324.598	0.00	0.00	0.00
23259.00	90.000	327.030	8081.53	15118.95	12331.88	-8759.12	1740345.02	421846.30	39°39'19.3094"N	80°18'37.3142"W	15126.05	324.614	0.00	0.00	0.00
23359.00	90.000	327.030	8081.53	15218.95	12415.78	-8813.54	1740290.61	421930.19	39°39'20.1337"N	80°18'38.0197"W	15225.97	324.630	0.00	0.00	0.00
23459.00	90.000	327.030	8081.53	15318.94	12499.67	-8867.96	1740236.19	422014.08	39°39'20.9579"N	80°18'38.7251"W	15325.88	324.646	0.00	0.00	0.00
23501.00	90.000	327.030	8081.53	15360.94	12534.91	-8890.82	1740213.33	422049.32	39°39'21.3041"N	80°18'39.0214"W	15367.84	324.652	0.00	0.00	0.00

02/23/2024

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

HOLE & CASING SECTIONS - Ref Wellbore: McClellan 3H AWB Ref Wellpath: McClellan 3H AWP Proj: 23501'

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]
17.5in Open Hole	28.00	1498.00	1470.00	28.00	1497.98	0.00	0.00	-4.65	-2.04
13.375in Casing Surface	28.00	1468.00	1440.00	28.00	1467.98	0.00	0.00	-4.59	-2.04
12.25in Open Hole	1498.00	2697.00	1199.00	1497.98	2696.17	-4.65	-2.04	16.01	8.89
9.625in Casing Intermediate	28.00	2667.00	2639.00	28.00	2666.20	0.00	0.00	14.84	8.91
8.75in Open Hole	2697.00	7093.00	4396.00	2696.17	7054.30	16.01	8.89	-453.22	-104.79
8.5in Open Hole	7093.00	23501.00	16408.00	7054.30	8081.53	-453.22	-104.79	12534.91	-8890.82
5.5in Casing Production	28.00	23471.00	23443.00	28.00	8081.53	0.00	0.00	12509.74	-8874.50



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McClellan 3H BHL Rev-7	8029.00	12536.68	-8888.87	1740215.28	422051.09	39°39'21.3218"N	80°18'38.9967"W	point
McClellan 3H LP Rev-4	8029.00	49.24	-583.87	1748519.78	409564.41	39°37'18.6411"N	80°16'51.4276"W	point
McClellan 3H BHL Rev-8	8050.00	12536.68	-8888.87	1740215.28	422051.09	39°39'21.3218"N	80°18'38.9967"W	point
McClellan 3H LP Rev-5	8050.00	49.24	-583.87	1748519.78	409564.41	39°37'18.6411"N	80°16'51.4276"W	point
McClellan Hardline #1 (03.15.2022)	8529.00	11916.89	-10998.31	1738105.98	421431.34	39°39'15.0077"N	80°19'5.8940"W	polygon

2D Polygon: dimensions not calculated

WELLPATH COMPOSITION - Ref Wellbore: McClellan 3H AWB Ref Wellpath: McClellan 3H AWP Proj: 23501'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1350.00	BH Generic gyro - northseeking (Standard)	01 <17.5"> Javins Inertial Gyro [Northseeking] (50'-1350')	McClellan 3H AWB	7/27/2022
1350.00	2639.00	OWSG MWD rev2 - Standard	02 <12.25">SDI MWD [OWSG MWD REV.2-Standard] (1350')(1534'-2639')	McClellan 3H AWB	7/27/2022
2639.00	7015.00	OWSG MWD rev2 - Standard	03 <8.75">SDI MWD [OWSG MWD REV.2-Standard] (2639')(2742'-7015')	McClellan 3H AWB	7/27/2022
7015.00	22959.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 <8.5"> BH ATK Curve [HRGM+Short Spacing] (7015')(7125'-22959')	McClellan 3H AWB	7/27/2022
22959.00	23501.00	BH Blind Drilling	05 <8.5"> ATK Curve Blind Drilling (22959')(23059' -23501')	McClellan 3H AWB	8/2/2022

02/23/2024

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

COMMENTS

Wellpath general comments
 API:47061018840000
 BH Job #: 111431572
 Rig: Patterson 277
 Duration: 07/28/2022 - 08/02/2022

- 01_ <17.5"> Javins Inertial Gyro [Northseeking] (50'-1350')
- 02_ <12.25"> SDI MWD [OWSG MWD REV.2-Standard] (1350')(1534'-2639')
- 03_ <8.75"> SDI MWD [OWSG MWD REV.2-Standard] (2639')(2742'-7015')
- 04_ <8.5"> BH ATK Curve [HRGM+Short Spacing] (7015')(7125'-22959')
- 05_ <8.5"> ATK Curve Blind Drilling (22959')(23059' -23501')

Final Survey MD @ 22959'
 Projected MD at TD: 23501'