

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

API 47 - 061 - 01930 County Monongalia District Clay Office RECEIVED
Quad Osage Pad Name Dolls Run Field/Pool Name MAY 29 2025
Farm name Bryan & Sierra VanNorman Well Number 5H
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 4388836.0 Easting 577810.7
Landing Point of Curve Northing 4389061.0 Easting 578322.5
Bottom Hole Northing 4392836.2 Easting 575835.2

Elevation (ft) 1,522' 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 6/7/23 Date drilling commenced 8/19/23 Date drilling ceased 9/5/23
Date completion activities began 7/5/24 Date completion activities ceased 8/18/24
Verbal plugging (Y/N) N 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 873' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 2,326' Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 318', 545', 793', 875' Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:

6/25/2025 09/19/2025

API 47- 061 - 01930 Farm name Bryan & Sierra VanNorman Well number 5H

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"	26"	128'	N	68.75	NA	
Surface	24"	13-3/8"	940'	N	J-55/54.5	NA	N
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,424'	N	J-55/36	NA	N
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	23,810'	N	P-110/20	NA	Y
Tubing							
Packer type and depth set							

Comment Details Casing depths based on KB elevation

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	Class A Common						48
Surface	L/100% NCM-956	1,400	15.6	1.14	1,590.48	CTS	8
Coal							
Intermediate 1	L/100% NCM-956	1,040	15.6	1.13	1,172.97'	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 NCM-956/NPZ-010	4,590	14.5	1.13	5,164.59'	1,737'	48
Tubing							

Drillers TD (ft) 23,859' Loggers TD (ft) 23,834'

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 7,746'

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: Shoe track & every 3rd joint to surface _____

Intermediate: Shoe track & every 3rd joint to surface _____

Production: Rigid bow centralizers at shoe track & every joint in the lateral to KOP. Bow springs from KOP to surface every third joint. _____

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 _____

09/19/2025

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	8,308'	TVD 23,859'
		MD

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface 2379 psi Bottom Hole 5419 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
 1159 mcfpd bpd bpd bpd ☐ Estimated ☒ Orifice ☐ Pilot

[illegible]

Drilling Contractor	Patterson- UTI					
Address	67090 Executive Drive	City	St. Clairsville	State	OH	Zip 43950
Logging Company	Baker Hughes					
Address	1681 E. Main Street	City	Bridgeport	State	WV	Zip 26330
Cementing Company	NextTier					
Address	3990 Rogerdale Rd	City	Houston	State	TX	Zip 77042
Stimulating Company	ProFrac					
Address	800 Mountain View Drive	City	Smithfield	State	PA	Zip 15478

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

09/19/2025

Dolls Run 5H 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	7/5/2024	6,308	8,913	9,258	93	572	7,964	300,000	588
2	7/5/2024	6,337	5,835	8,954	94	98	11,886	550,000	545
3	7/5/2024	6,881	6,546	9,293	93	25	11,421	550,000	523
4	7/6/2024	6,267	6,040	9,199	94	18	11,661	550,000	552
5	7/6/2024	6,430	6,890	9,378	94	46	11,392	550,000	522
6	7/7/2024	6,422	7,097	9,311	94	18	11,293	770,000	495
7	7/8/2024	6,095	6,834	9,278	94	12	11,543	550,000	526
8	7/9/2024	6,123	7,114	9,362	94	17	11,232	550,000	504
9	7/9/2024	5,726	6,692	9,003	94	17	11,617	550,000	496
10	7/10/2024	6,427	6,937	9,103	95	13	11,894	550,000	538
11	7/10/2024	6,169	6,986	9,102	94	31	11,569	550,600	486
12	7/11/2024	6,467	6,782	9,303	94	4	11,413	550,000	497
13	7/12/2024	6,651	6,445	9,324	93	12	11,166	551,200	468
14	7/12/2024	5,850	6,696	9,136	94	14	11,335	550,000	481
15	7/13/2024	6,236	6,991	9,117	94	14	11,451	550,000	474
16	7/13/2024	6,287	7,257	9,076	94	11	11,269	551,500	469
17	7/14/2024	6,287	6,652	9,140	94	20	11,396	551,500	463
18	7/15/2024	5,938	6,926	9,412	95	16	11,557	550,000	483
19	7/16/2024	5,832	6,664	9,263	94	10	11,732	550,000	453
20	7/16/2024	5,969	6,933	9,177	94	9	11,602	550,080	458
21	7/17/2024	5,777	6,285	9,120	94	12	11,463	550,600	446
22	7/17/2024	5,853	5,849	9,169	93	12	11,485	550,300	453
23	7/18/2024	6,480	6,609	9,379	94	5	11,969	550,200	447
24	7/19/2024	6,119	7,214	9,265	94	8	11,436	550,200	461
25	7/19/2024	6,209	7,264	9,268	94	14	11,328	550,500	464
26	7/20/2024	6,754	6,858	9,170	94	8	11,232	550,200	422
27	7/20/2024	5,508	6,932	9,100	94	30	11,254	552,100	443
28	7/21/2024	6,703	7,232	9,201	95	1	11,165	550,300	407
29	7/21/2024	5,694	7,000	8,912	94	13	11,256	550,900	426
30	7/22/2024	5,883	7,058	9,172	94	6	11,317	551,500	411
31	7/23/2024	5,713	7,785	9,322	94	15	11,424	550,300	418
32	7/23/2024	6,236	7,427	9,207	94	9	11,054	550,400	412
33	7/24/2024	5,943	7,424	9,089	94	4	11,249	550,620	388
34	7/24/2024	6,092	6,586	9,336	94	10	11,144	550,000	401
35	7/25/2024	5,969	6,868	9,263	94	7	11,107	550,200	373
36	7/26/2024	5,981	6,727	9,287	94	10	11,160	550,000	389
37	7/26/2024	5,965	7,211	9,150	94	7	11,390	550,500	371
38	7/27/2024	6,342	7,003	9,138	94	7	11,169	550,000	385
39	7/27/2024	5,653	6,539	8,843	94	6	11,182	551,700	400
40	7/28/2024	5,715	6,971	8,984	94	14	11,257	551,320	357
41	7/28/2024	5,899	6,952	8,862	94	4	11,072	550,000	387
42	7/29/2024	5,391	6,951	9,063	93	6	11,135	550,000	340
43	7/30/2024	6,315	7,028	8,820	94	14	11,163	550,000	388

09/19/2025

Dolls Run 5H 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)
44	7/30/2024	5,873	6,831	8,828	94	19	11,193	550,101	343
45	7/31/2024	6,043	6,836	8,880	95	14	11,427	551,500	347
46	7/31/2024	5,966	7,138	8,988	93	10	11,200	550,000	341
47	8/1/2024	6,009	6,720	8,913	94	17	11,299	550,000	328
48	8/1/2024	6,102	6,920	8,749	95	5	11,060	550,000	332
49	8/2/2024	6,134	7,269	8,700	94	10	11,054	550,000	315
50	8/3/2024	5,821	7,073	8,864	94	7	11,114	550,000	334
51	8/3/2024	6,021	7,014	8,825	94	4	11,027	550,500	310
52	8/4/2024	5,934	6,664	8,454	94	7	11,173	550,600	296
53	8/5/2024	6,145	6,582	8,456	95	14	11,244	552,100	310
54	8/5/2024	6,192	6,592	8,357	94	3	11,181	551,700	298
55	8/5/2024	6,237	7,068	8,911	94	10	11,249	552,700	319
56	8/6/2024	6,268	7,006	8,582	94	20	11,320	554,160	309
57	8/7/2024	6,074	6,806	8,944	94	36	11,317	551,800	315
58	8/8/2024	6,222	7,105	8,841	94	13	11,128	550,860	298
59	8/8/2024	6,255	6,268	8,915	94	8	11,149	545,000	344
60	8/9/2024	6,394	6,725	8,708	93	8	11,110	551,480	275
61	8/9/2024	5,820	7,336	8,993	94	28	11,181	549,200	286
62	8/10/2024	5,543	7,371	8,843	94	16	11,214	520,000	280
63	8/11/2024	5,956	7,309	8,581	94	3	11,468	551,260	272
64	8/11/2024	6,533	6,957	8,231	94	4	11,532	548,280	243
65	8/12/2024	6,426	6,800	8,303	94	14	11,493	550,900	277
66	8/13/2024	6,125	6,864	8,186	95	7	11,093	550,620	287
67	8/13/2024	6,197	6,727	8,165	94	13	11,510	550,000	331
68	8/14/2024	6,188	6,563	8,048	94	5	11,116	550,000	307
69	8/14/2024	5,556	6,547	8,108	94	13	11,136	550,640	247
70	8/15/2024	6,485	7,172	8,211	94	4	11,195	550,000	258
71	8/16/2024	6,536	6,444	8,335	94	8	11,017	549,980	193
72	8/16/2024	6,435	6,641	8,322	94	8	11,197	550,000	217
73	8/17/2024	6,651	7,024	8,480	93	6	10,986	540,960	222
74	8/17/2024	6,978	7,490	8,376	94	26	11,049	550,000	207
75	8/18/2024	6,928	7,220	9,017	92	6	11,299	526,120	200
76	8/18/2024	6,343	8,147	8,826	93	7	11,086	550,000	200

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Dolls Run 5H Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	7/5/2024	40		23,699
2	7/5/2024	40	23,656	23,498
3	7/5/2024	40	23,456	23,298
4	7/6/2024	40	23,256	23,098
5	7/6/2024	40	23,056	22,898
6	7/7/2024	40	22,856	22,698
7	7/8/2024	40	22,656	22,498
8	7/9/2024	40	22,456	22,298
9	7/9/2024	40	22,256	22,098
10	7/10/2024	40	22,056	21,898
11	7/10/2024	40	21,856	21,698
12	7/11/2024	40	21,656	21,498
13	7/12/2024	40	21,456	21,299
14	7/12/2024	40	21,257	21,099
15	7/13/2024	40	21,057	20,899
16	7/13/2024	40	20,857	20,699
17	7/14/2024	40	20,657	20,499
18	7/15/2024	40	20,457	20,299
19	7/16/2024	40	20,257	20,099
20	7/16/2024	40	20,057	19,899
21	7/17/2024	40	19,857	19,699
22	7/17/2024	40	19,657	19,499
23	7/18/2024	40	19,457	19,299
24	7/19/2024	40	19,257	19,099
25	7/19/2024	40	19,057	18,899
26	7/20/2024	40	18,857	18,699
27	7/20/2024	40	18,657	18,500
28	7/21/2024	40	18,458	18,300
29	7/21/2024	40	18,258	18,100
30	7/22/2024	40	18,058	17,900
31	7/23/2024	40	17,858	17,700
32	7/23/2024	40	17,658	17,500
33	7/24/2024	40	17,458	17,300
34	7/24/2024	40	17,258	17,100
35	7/25/2024	40	17,058	16,900
36	7/26/2024	40	16,858	16,700
37	7/26/2024	40	16,658	16,500
38	7/27/2024	40	16,458	16,300
39	7/27/2024	40	16,258	16,100
40	7/28/2024	40	16,058	15,900
41	7/28/2024	40	15,858	15,700
42	7/29/2024	40	15,659	15,501
43	7/30/2024	40	15,459	15,301
44	7/30/2024	40	15,259	15,101
45	7/31/2024	40	15,059	14,901
46	7/31/2024	40	14,859	14,701
47	8/1/2024	40	14,659	14,501

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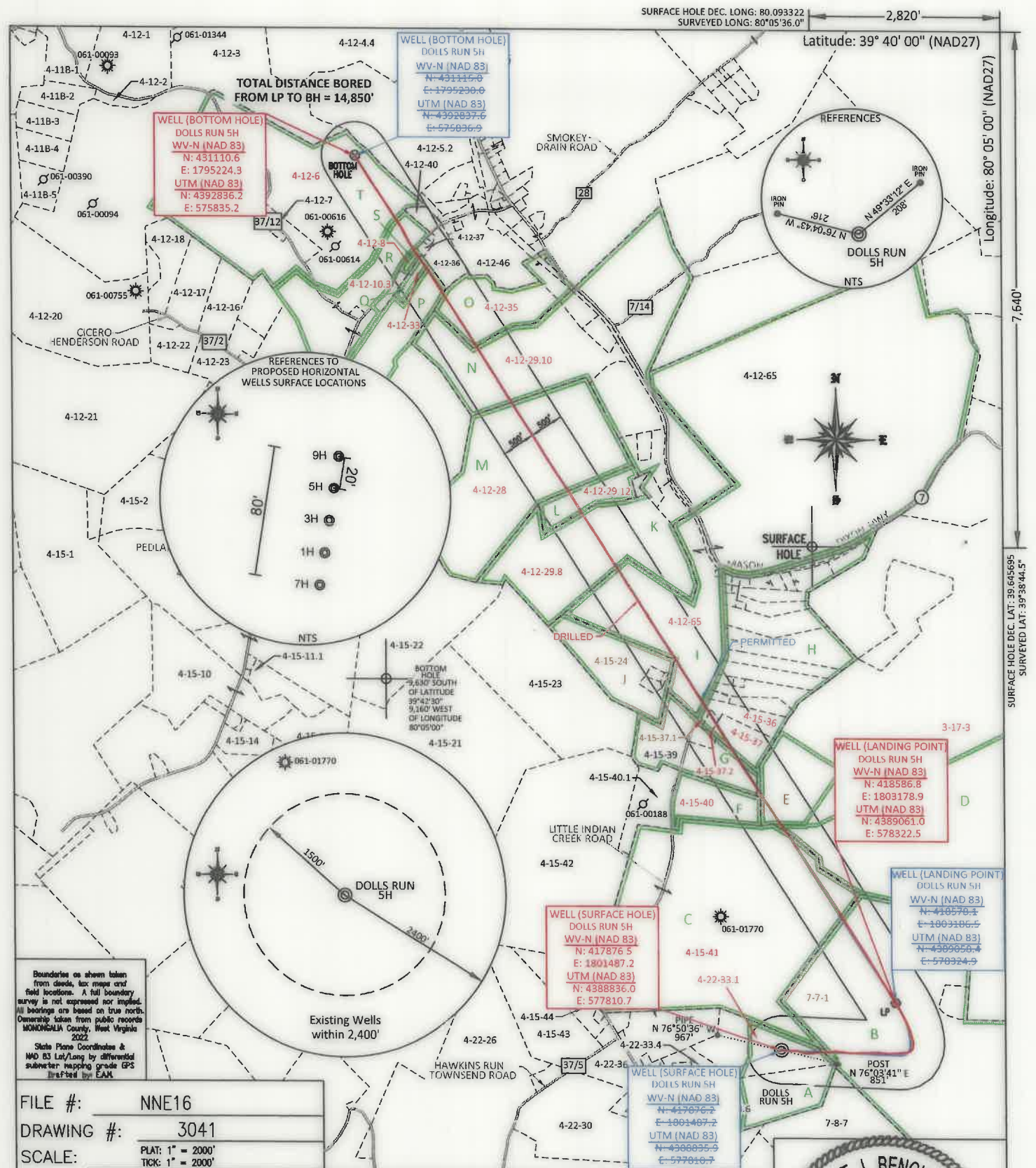
Dolls Run 5H Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
48	8/1/2024	40	14,459	14,301
49	8/2/2024	40	14,259	14,101
50	8/3/2024	40	14,059	13,901
51	8/3/2024	40	13,859	13,701
52	8/4/2024	40	13,659	13,501
53	8/5/2024	40	13,459	13,301
54	8/5/2024	40	13,259	13,101
55	8/5/2024	40	13,059	12,901
56	8/6/2024	40	12,859	12,702
57	8/7/2024	40	12,660	12,502
58	8/8/2024	40	12,460	12,302
59	8/8/2024	40	12,260	12,102
60	8/9/2024	40	12,060	11,902
61	8/9/2024	40	11,860	11,702
62	8/10/2024	40	11,660	11,502
63	8/11/2024	40	11,460	11,302
64	8/11/2024	40	11,260	11,102
65	8/12/2024	40	11,060	10,902
66	8/13/2024	40	10,860	10,702
67	8/13/2024	40	10,660	10,502
68	8/14/2024	40	10,460	10,302
69	8/14/2024	40	10,260	10,102
70	8/15/2024	40	10,060	9,903
71	8/16/2024	40	9,861	9,703
72	8/16/2024	40	9,661	9,503
73	8/17/2024	40	9,461	9,303
74	8/17/2024	40	9,261	9,103
75	8/18/2024	40	9,061	8,903
76	8/18/2024	40	8,861	8,703

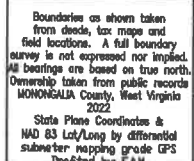
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Dolls Run Completion Lithology			
Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Sand/silt	0	220	Sand/silt
Sand/red shale	220	275	sand with reddish shale
sandstone/shale	275	620	sandstone/shale
Washington coal	315	318	coal
siltstone/sandstone	318	607	carbonaceous silt/sandstone
Waynesburg coal	542	545	Waynesburg coal
sandstone/limestone	545	580	sandstone/limestone
Limestone/siltstone	580	790	Limestone/siltstone
Sewickley coal	790	793	Sewickley coal
Limestone	793	870	Limestone
Pittsburgh coal	870	875	Pittsburgh coal
Limestone/siltstone	875	995	Limestone/siltstone
sandstone/siltstone	995	1840	sandstone/siltstone
Red Rock/siltstone/limestone	1840	2074	Red Rock/siltstone/limestone
Little Lime	2074	2105	Little Lime
Big Lime	2105	2251	Big Lime
Big Injun	2251	2326	Big Injun
Sand/silt	2326	2696	Sand/silt
Gantz	2696	2702	Gantz
Sand/shale	2702	2776	Sand/shale
Gordon	2776	3024	Gordon
Fourth Sand	3024	3030	red sandstone and siltstone
siltstone/sandstone	3030	7179	siltstone/sandstone
Gray shale/siltstone	7179	7357	Gray shale/siltstone
Middlesex	7357	7725	Middlesex
Burkett	7725	7964	Burkett
Genesee	7964	8016	Genesee
Tully	8016	8078	Tully
Hamilton	8078	8217	Hamilton
Marcellus	8217	TD	Marcellus

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CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

ERNEST J. BENCHEK III
RECEIVED
for Oil and Gas
No. 2124
2/9/2025
STATE OF VIRGINIA
Department of Professional Regulation
PROFESSIONAL SURVEYOR

INCREASE: 1,59.08 +/ -

PROPERTY OWNER INDEX	
3-17-3	PENN PLASTIC CO
4-12-6	ALPHEUS MICHAEL HENDERSON
4-12-8	JOHN F BELL JR & VIVIAN J BELL
4-12-10.3	MAVIS I EDDY
4-12-28	MELISSA T HETTMAN & ERIN ALLEN
4-12-29.8	MELISSA T HETTMAN & ERIN ALLEN
4-12-29.10	DEANNA S TENNANT
4-12-29.12	MELISSA T HETTMAN & ERIN ALLEN
4-12-30	ROBERT C WALLS FAMILT TRUST (LIFE- DIANA LYNN WALLS)
4-12-33	JOHN F BELL JR & VIVIAN J BELL
4-12-35	ROBERT LYNN CORE
4-12-65	BLAKE R & H PRESTON BOGGESS
4-15-36	GEORGE E & MARGARET A REEL
4-15-37	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-37.1	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-37.2	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-38	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-40	LEROY E & GLENNA J TENNANT LEGACY PROTECTOR TRUST
4-15-41	DONNA N & ROBERT ALLEN WRIGHT
4-22-33.1	DENNIS J & MELINDA S THORNE
4-15-24	RICHARD L & THOMASINE WEBER
7-7-1	OWEN REALTY CO INC

LEASE INDEX			
A	WV-061-004020-000	K	WV-061-006385-001
B	WV-061-086230-001	L	WV-061-004662-000
C	WV-061-005246-002	M	WV-061-001111-008
D	WV-061-106300-001	N	WV-061-006385-001
E	WV-061-086005-001	O	WV-061-004267-001
F	WV-061-006385-001	P	WV-061-002357-000
G	WV-061-006385-001	Q	WV-061-006044-002
H	WV-061-003269-003	R	WV-061-003768-014
I	WV-061-003269-003	S	WV-061-005143-003
J	WV-061-005524-007	T	WV-061-003525-012

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FILE #: NEE14
DRAWING #: 3041
SCALE: N/A

DATE: APRIL 15, 2025
OPERATOR'S WELL #: DOLLS RUN 5H AS-DRILLED
API WELL #: 47 61 01930
STATE COUNTY PERMIT

09/19/2025

Cement Job Log

[illegible]

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Cement Job Log

[illegible]

09/19/2025

Cement Job Log

[illegible]

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	07/05/2024
Job End Date:	08/18/2024
State:	West Virginia
County:	Monongalia
API Number:	47-061-01930-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Dolls Run 5H
Latitude:	39.645775
Longitude:	-80.09312
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8269
Total Base Water Volume (gal)*:	37450434
Total Base Non Water Volume:	0



Water Source	Percent
Other, > 1000TDS	85.00%

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 HIF Fluid (% by mass)**	Comments
Water	Operator	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.12762	None
Sand (100 Mesh Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	8.21923	None
Sand (40/70 White Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	3.48137	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	92.50000	0.10092	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.02382	None
			Water	7732-18-5	80.00000	0.01371	None
			WATER	7732-18-5	15.00000	0.00893	None

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			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00298	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00228	None
			Polyacrylamide	9003-05-8	40.00000	0.00127	None
			WATER	7732-18-5	30.00000	0.00095	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00051	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00051	None
			Ethanol	64-17-5	1.50000	0.00026	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00016	None
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00011	None
			Ethanoic Acid	64-19-7	15.00000	0.00006	None
			Ethoxylated Alcohols	68131-39-5	15.00000	0.00006	None
			Proprietary	Proprietary	10.00000	0.00004	None
			Proprietary	Proprietary	10.00000	0.00004	None
			2-ethylhexanol	104-76-7	5.00000	0.00002	None
			Ethoxylated Nonylphenos	127087-87-0	5.00000	0.00002	None
Hydrochloric Acid (7.5%)	Tarquin	Acidizing					
			Water	7732-18-5	92.50000	0.10092	None
			Hydrochloric Acid	7647-01-0	7.50000	0.00818	None
StimSTREAM FR 9800	Chemstream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.02382	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.02382	None
			WATER	7732-18-5	15.00000	0.00893	None
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00298	None
Clearal 268A	Chemstream	Biocide					
			Water	7732-18-5	80.00000	0.01371	None
			Glutaraldehyde	111-30-8	20.00000	0.00343	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00051	None

			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00051	None
			Ethanol	64-17-5	1.50000	0.00026	None
StimSTREAM SC 405	Chemstream	Scale Inhibitor					
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00228	None
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00228	None
StimSTREAM FR 2800	Chemstream	Friction Reducer					
			Polyacrylamide	9003-05-8	40.00000	0.00127	None
			WATER	7732-18-5	30.00000	0.00095	None
			Distillates (petroleum), hydrotreated light	64742-47-8	25.00000	0.00079	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00016	None
Acid Pack Pro	Tarquin	Acid Inhibitor					
			Methanol	67-56-1	25.00000	0.00011	None
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00011	None
			Ethanoic Acid	64-19-7	15.00000	0.00006	None
			Ethoxylated Alcohols	68131-39-5	15.00000	0.00006	None
			Proprietary	Proprietary	10.00000	0.00004	None
			Proprietary	Proprietary	10.00000	0.00004	None
			2-ethylhexanol	104-76-7	5.00000	0.00002	None
			Ethoxylated Nonylphenos	127087-87-0	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

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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