

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

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Office of Oil and Gas
JUL 22 2026

WV Department of
Environmental Protection

API 47-041-05762 County Lewis District Freemans Creek
Quad Vadis Pad Name Van Wie 1221 Pad Field/Pool Name -----
Farm name HG Energy II Appalachia, LLC, et al Well Number Van Wie 1221 N-3H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4327359.928m Easting 528675.362m
Landing Point of Curve Northing 4327876.16m Easting 528736.48m
Bottom Hole Northing 4334028.802m Easting 526555.532m

Elevation (ft) 1251.77' 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

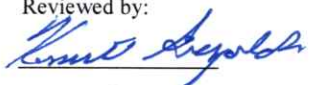
Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Production hole ☐ Air ☒ Mud ☐ Fresh Water ☐ Brine
Mud Type(s) and Additive(s)
Air - Foam & 4% KCL
Mud - Polymer

Date permit issued 2/20/2024 Date drilling commenced 10/22/2024 Date drilling ceased 5/13/2025
Date completion activities began 12/1/2025 Date completion activities ceased 3/27/2026
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 826' Open mine(s) (Y/N) depths No
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths No
Coal depth(s) ft 495'-501' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed

Reviewed by:

07/31/2026

API 47-041 - 05762 Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-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"	30"	120'	New	157.5#, LS	N/A	N/A
Surface	26"	20"	1236'	New	94#, J-55	N/A	Y
Coal							
Intermediate 1	17-1/2"	13-3/8"	2830'	New	68#, J-55 BTC	N/A	Y
Intermediate 2	12-1/4"	9-5/8"	6156'	New	40# N/L-80 BTC	N/A	
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	30227'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7140'		4.7#, P-110		
Packer type and depth set		N/A					

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	Class A	277 sks	15.6	1.18	327	0'	8 Hrs.
Surface	15.6PPG/SLB	964 sks	15.6	1.20	1157	0'	8 Hrs.
Coal							
Intermediate 1	SLB BLEND	826 sks	15.9	1.17	966	0'	8 Hrs.
Intermediate 2	Class A	183 sks	15.9	1.26	231	0'	8 Hrs.
Intermediate 3							
Production	Class A w/ fulcrum	5065 sks	14.8(Tail)	1.94 (Tail)	9826	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 30227' MD, 7294' TVD (BHL), 7300' (Deepest Point Drilled) Loggers TD (ft) 30227' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A RECEIVED _____
 Plug back procedure N/A Office of Oil and Gas

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Kick off depth (ft) 7100'

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 _____

Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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 N/A

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API 47-041 - 05762 Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-3H

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

***PLEASE SEE ATTACHED EXHIBIT 1**

[illegible]

STIMULATION INFORMATION PER STAGE

[illegible]

***PLEASE SEE ATTACHED EXHIBIT 2**

[illegible]

Please insert additional pages as applicable.

07/31/2026

API 47- 041 - 05762

Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-3H

PRODUCING FORMATION(S)

DEPTHS

Marcellus 7048' (TOP) TVD 7453' (TOP) MD

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Please insert additional pages as applicable.

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

SHUT-IN PRESSURE Surface 999 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 16650 mcfpd Oil 167 bpd NGL --- bpd Water 698 bpd GAS MEASURED BY ☐ Estimated ☒ Orifice ☐ Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling
Address 10350 Richmond Ave, Suite 700 City Houston State TX Zip 77042

Logging Company Renegade Services
Address 191 Earnhardt Rd City Hunker State PA Zip 15639

Cementing Company Lightning Energy Services
Address 603 US Hwy Rt. 19N City Weston State WV Zip 26452

Stimulating Company ProFrac
Address 333 Shops Boulevard Suite 301 City Willow Park State TX Zip 76087

Please insert additional pages as applicable.

Completed by Carly Wren Telephone 303-357-7373
Signature [Signature] Title Permitting Agent Date 7/21/20

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

07/31/2026

API #7-051-02162 Farm Name H.G. Energy, L Apalachee, LLC, et al. Well Number 1221-N Unit BH					
Exhibit 1					
Stage No.	Perforation Date	Perforated from MD	Perforated to MD	Number of Perforations	Formations
1	12/1/2025	30147	30090	5	Marcellus
2	12/1/2025	30029	29901	32	Marcellus
3	12/2/2025	29839	29669	32	Marcellus
4	12/2/2025	29643	29473	32	Marcellus
5	12/2/2025	29447	29277	32	Marcellus
6	12/3/2025	29251	29081	32	Marcellus
7	12/3/2025	29055	28885	32	Marcellus
8	12/3/2025	28859	28689	32	Marcellus
9	12/4/2025	28663	28493	32	Marcellus
10	12/4/2025	28467	28297	32	Marcellus
11	12/4/2025	28271	28101	32	Marcellus
12	12/5/2025	28075	27905	32	Marcellus
13	12/5/2025	27879	27709	32	Marcellus
14	12/5/2025	27683	27513	32	Marcellus
15	12/5/2025	27487	27317	32	Marcellus
16	12/6/2025	27291	27121	32	Marcellus
17	12/6/2025	27095	26925	32	Marcellus
18	12/6/2025	26899	26729	32	Marcellus
19	12/6/2025	26703	26533	32	Marcellus
20	12/7/2025	26507	26337	32	Marcellus
21	12/7/2025	26311	26141	32	Marcellus
22	12/7/2025	26115	25945	32	Marcellus
23	12/10/2025	25919	25749	32	Marcellus
24	12/11/2025	25723	25553	32	Marcellus
25	12/11/2025	25527	25357	32	Marcellus
26	12/11/2025	25331	25161	32	Marcellus
27	12/12/2025	25135	24965	32	Marcellus
28	12/11/2025	24939	24769	32	Marcellus
29	12/12/2025	24743	24573	32	Marcellus
30	12/18/2025	24547	24377	32	Marcellus
31	12/19/2025	24351	24181	32	Marcellus
32	12/19/2025	24155	23985	32	Marcellus
33	12/19/2025	23959	23789	32	Marcellus
34	12/20/2025	23763	23593	32	Marcellus
35	12/23/2025	23567	23397	32	Marcellus
36	12/23/2025	23371	23201	32	Marcellus
37	12/23/2025	23175	23005	32	Marcellus
38	12/23/2025	22979	22809	32	Marcellus
39	12/23/2025	22783	22613	32	Marcellus
40	12/23/2025	22587	22417	32	Marcellus
41	12/23/2025	22391	22221	32	Marcellus
42	12/23/2025	22195	22025	32	Marcellus
43	12/23/2025	21999	21829	32	Marcellus
44	12/23/2025	21803	21633	32	Marcellus
45	12/23/2025	21607	21437	32	Marcellus
46	12/23/2025	21411	21241	32	Marcellus
47	1/2/2026	21215	21045	32	Marcellus
48	1/2/2026	21019	20849	32	Marcellus
49	1/3/2026	20823	20653	32	Marcellus
50	1/3/2026	20627	20457	32	Marcellus
51	1/4/2026	20431	20261	32	Marcellus
52	1/4/2026	20235	20065	32	Marcellus
53	1/4/2026	20039	19869	32	Marcellus
54	1/5/2026	19843	19673	32	Marcellus
55	1/5/2026	19647	19477	32	Marcellus
56	1/5/2026	19451	19281	32	Marcellus
57	1/5/2026	19255	19085	32	Marcellus
58	1/5/2026	19059	18889	32	Marcellus
59	1/6/2026	18863	18693	32	Marcellus
60	1/6/2026	18667	18497	32	Marcellus
61	1/6/2026	18471	18301	32	Marcellus
62	1/7/2026	18275	18105	32	Marcellus
63	1/7/2026	18079	17909	32	Marcellus
64	1/7/2026	17883	17713	32	Marcellus
65	1/8/2026	17687	17517	32	Marcellus
66	1/8/2026	17491	17321	32	Marcellus
67	1/8/2026	17295	17125	32	Marcellus
68	1/9/2026	17099	16929	32	Marcellus
69	1/9/2026	16903	16733	32	Marcellus
70	1/9/2026	16707	16537	32	Marcellus
71	1/10/2026	16511	16341	32	Marcellus
72	1/11/2026	16315	16145	32	Marcellus
73	1/12/2026	16119	15949	32	Marcellus
74	1/13/2026	15923	15753	32	Marcellus
75	1/14/2026	15727	15557	32	Marcellus
76	1/14/2026	15531	15361	32	Marcellus
77	1/15/2026	15335	15165	32	Marcellus
78	1/16/2026	15139	14969	32	Marcellus
79	1/17/2026	14943	14773	32	Marcellus
80	1/18/2026	14747	14577	32	Marcellus
81	1/19/2026	14551	14381	32	Marcellus
82	1/20/2026	14355	14185	32	Marcellus
83	1/21/2026	14159	13989	32	Marcellus
84	1/21/2026	13963	13793	32	Marcellus
85	1/22/2026	13767	13597	32	Marcellus
86	1/22/2026	13571	13401	32	Marcellus
87	1/23/2026	13375	13205	32	Marcellus
88	1/23/2026	13179	13009	32	Marcellus
89	1/24/2026	12983	12813	32	Marcellus
90	1/24/2026	12787	12617	32	Marcellus
91	1/25/2026	12591	12421	32	Marcellus
92	1/25/2026	12395	12225	32	Marcellus
93	1/25/2026	12199	12029	32	Marcellus
94	1/25/2026	11999	11829	32	Marcellus
95	1/25/2026	11803	11633	32	Marcellus
96	1/25/2026	11607	11437	32	Marcellus
97	1/25/2026	11411	11241	32	Marcellus
98	1/25/2026	11215	11045	32	Marcellus
99	1/25/2026	11019	10849	32	Marcellus
100	1/25/2026	10823	10653	32	Marcellus
101	1/25/2026	10627	10457	32	Marcellus
102	1/25/2026	10431	10261	32	Marcellus
103	1/25/2026	10235	10065	32	Marcellus
104	1/25/2026	10039	9869	32	Marcellus
105	1/25/2026	9843	9673	32	Marcellus
106	1/25/2026	9647	9477	32	Marcellus
107	1/25/2026	9451	9281	32	Marcellus
108	1/25/2026	9255	9085	32	Marcellus
109	1/25/2026	9059	8889	32	Marcellus
110	1/25/2026	8863	8693	32	Marcellus
111	1/25/2026	8667	8497	32	Marcellus
112	1/25/2026	8471	8301	32	Marcellus
113	1/25/2026	8275	8105	32	Marcellus
114	1/25/2026	8079	7909	32	Marcellus
115	1/25/2026	7883	7713	32	Marcellus
116	1/25/2026	7687	7517	32	Marcellus

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APL 67-041-05761 Farm Name: H&H Energy II, Appalachia, LLC, et al Well Number: 2221-21, 2221-22									
EXHIBIT 2									
Stage No	Stimulation Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbl)	Amount of Nitrogen/other (lbs)	
1	12/2/2025	0.0	0.0				0		
2	12/2/2025	77.9	10384.8	9,855	4,438	5,800	2,993	N/A	
3	12/2/2025	70.7	10386.3	7,234	4,104	6,890	4,950	N/A	
4	12/2/2025	82.6	10352.9	6,497	4,919	26,720	10,938	N/A	
5	12/2/2025	86.9	10382.4	6,525	5,491	379,980	13,734	N/A	
6	12/3/2025	90.0	10542.1	6,293	5,837	705,300	34,852	N/A	
7	12/3/2025	92.2	10374.8	6,071	5,512	705,480	34,988	N/A	
8	12/3/2025	89.4	10540.1	6,020	5,542	705,260	35,125	N/A	
9	12/4/2025	88.3	10375.4	6,137	6,767	705,640	34,727	N/A	
10	12/4/2025	87.4	10543.0	6,161	5,925	705,280	34,953	N/A	
11	12/4/2025	85.3	10553.7	6,219	6,253	428,800	11,195	N/A	
12	12/5/2025	80.3	10651.1	6,230	5,153	348,660	9,918	N/A	
13	12/5/2025	90.0	10664.3	9,648	6,395	705,340	13,323	N/A	
14	12/5/2025	87.6	10700.8	9,520	5,278	627,060	12,891	N/A	
15	12/5/2025	88.0	10602.2	8,941	5,064	705,280	15,591	N/A	
16	12/5/2025	91.7	10835.9	8,451	6,170	644,200	12,970	N/A	
17	12/6/2025	93.7	10566.9	8,876	6,364	705,800	13,488	N/A	
18	12/6/2025	92.5	10984.7	10,515	6,344	705,120	13,369	N/A	
19	12/6/2025	92.0	10954.8	9,027	5,837	705,100	13,476	N/A	
20	12/7/2025	96.2	10850.0	8,553	6,305	705,680	13,584	N/A	
21	12/7/2025	92.9	10560.4	8,926	6,059	705,720	13,676	N/A	
22	12/15/2025	92.8	10207.1	8,037	5,362	705,960	12,603	N/A	
23	12/15/2025	90.8	10375.1	10,270	6,228	705,430	15,647	N/A	
24	12/15/2025	94.3	10356.9	8,078	5,888	707,220	13,337	N/A	
25	12/11/2025	93.7	10318.9	7,407	5,651	706,430	13,674	N/A	
26	12/12/2025	92.9	10772.3	8,395	5,725	705,870	13,805	N/A	
27	12/12/2025	94.6	10107.3	7,914	5,878	705,350	13,400	N/A	
28	12/17/2025	86.1	10067.6	8,808	5,311	705,200	13,299	N/A	
29	12/17/2025	93.8	10342.8	8,305	5,888	705,090	13,946	N/A	
30	12/18/2025	91.0	10367.3	8,797	5,483	705,660	13,535	N/A	
31	12/19/2025	94.1	10364.5	7,755	5,403	705,410	12,429	N/A	
32	12/19/2025	91.3	10219.0	8,308	5,856	706,560	12,387	N/A	
33	12/19/2025	94.5	10306.7	7,421	5,589	705,670	12,115	N/A	
34	12/20/2025	97.8	10443.7	7,508	5,360	705,370	12,109	N/A	
35	12/20/2025	95.0	10227.7	7,658	5,709	705,880	12,160	N/A	
36	12/20/2025	95.1	10269.8	8,095	5,511	705,380	12,171	N/A	
37	12/22/2025	96.4	10485.1	7,661	5,870	705,710	11,991	N/A	
38	12/21/2025	91.4	10337.7	7,940	4,499	513,470	11,771	N/A	
39	12/21/2025	95.5	10264.7	8,184	5,718	706,090	12,070	N/A	
40	12/22/2025	98.8	10477.4	7,516	5,834	705,950	12,093	N/A	
41	12/22/2025	96.7	10458.6	7,798	5,680	705,940	11,309	N/A	
42	12/23/2025	95.8	10385.2	8,080	5,856	705,940	11,369	N/A	
43	12/22/2025	97.0	10477.9	8,719	6,122	680,870	11,264	N/A	
44	12/23/2025	99.6	10393.5	7,366	5,917	680,460	11,323	N/A	
45	12/23/2025	98.5	10352.1	7,864	5,778	680,360	10,643	N/A	
46	12/23/2025	91.1	10451.4	9,444	5,427	680,320	13,482	N/A	
47	1/2/2026	94.9	10113.0	7,680	4,993	680,770	11,331	N/A	
48	1/2/2026	97.7	9964.3	9,241	5,492	680,220	13,888	N/A	
49	1/3/2026	94.9	10145.3	8,650	5,277	680,310	13,460	N/A	
50	1/3/2026	93.5	10081.1	4,654	5,795	680,280	12,111	N/A	
51	1/4/2026	95.1	10091.4	6,683	5,428	654,640	11,380	N/A	
52	1/4/2026	99.9	10076.3	7,175	5,215	680,640	11,728	N/A	
53	1/4/2026	97.8	10082.7	6,278	5,883	680,320	11,150	N/A	
54	1/5/2026	93.2	10083.5	9,888	4,873	680,260	11,056	N/A	
55	1/5/2026	90.1	9927.1	4,082	4,864	680,260	12,762	N/A	
56	1/5/2026	83.8	9988.5	8,341	5,176	680,800	12,806	N/A	
57	1/5/2026	101.9	10147.9	7,731	5,565	680,180	11,191	N/A	
58	1/5/2026	106.4	9896.1	4568	9,277	680,250	10,935	N/A	
59	1/6/2026	101.3	9848.3	7,217	5,207	680,220	11,149	N/A	
60	1/6/2026	98.6	9927.6	8,622	5,857	680,720	12,749	N/A	
61	1/6/2026	95.2	9906.5	8,172	5,364	680,340	11,105	N/A	
62	1/7/2026	94.2	9864.7	8,904	5,127	680,370	11,182	N/A	
63	1/7/2026	98.9	10023.0	7,944	5,534	680,250	11,036	N/A	
64	1/7/2026	90.1	9946.0	8,444	5,121	630,000	12,285	N/A	
65	1/8/2026	93.2	9895.0	8,280	5,207	669,610	10,970	N/A	
66	1/8/2026	94.2	9904.3	8,139	5,615	680,790	10,962	N/A	
67	1/8/2026	102.1	10011.5	7,051	5,615	680,370	10,803	N/A	
68	1/8/2026	105.9	9907.7	4,971	5,884	680,320	11,851	N/A	
69	1/9/2026	103.2	9877.7	6,895	5,746	680,350	10,580	N/A	
70	1/9/2026	103.9	9759.7	7,900	6,024	681,210	10,416	N/A	
71	1/10/2026	98.7	9859.5	8,583	5,861	680,860	10,622	N/A	
72	1/11/2026	90.4	9675.8	9,020	5,770	680,580	12,333	N/A	
73	1/12/2026	92.1	9985.9	6,873	5,267	608,850	11,666	N/A	
74	1/13/2026	104.5	9983.6	8,008	5,580	680,580	10,445	N/A	
75	1/14/2026	104.8	9717.4	9,134	5,360	680,860	10,535	N/A	
76	1/14/2026	106.1	9840.4	7,470	5,728	680,670	10,615	N/A	
77	1/15/2026	101.5	10185.4	8,653	5,830	680,370	11,130	N/A	
78	1/16/2026	106.5	10167.2	8,371	5,387	680,410	10,712	N/A	
79	1/17/2026	107.2	10021.4	6,613	5,338	680,470	11,327	N/A	
80	1/18/2026	101.4	10211.2	8,649	5,795	680,820	10,550	N/A	
81	1/19/2026	107.4	10081.7	7,951	5,777	680,850	10,587	N/A	
82	1/20/2026	105.3	10078.8	7,903	6,133	680,940	11,184	N/A	
83	1/21/2026	99.9	10025.3	8,857	5,878	680,590	10,355	N/A	
84	1/21/2026	108.2	9734.1	7,506	5,629	680,870	10,389	N/A	
85	1/22/2026	107.0	10044.6	6,819	5,522	680,350	10,726	N/A	
86	1/22/2026	108.0	9994.4	10,145	4,714	680,360	10,290	N/A	
87	1/23/2026	101.8	10077.7	9,073	5,087	624,040	11,272	N/A	
88	1/23/2026	109.8	9714.1	7,376	5,270	680,860	10,404	N/A	
89	1/24/2026	109.9	9764.3	6,785	5,453	680,440	10,776	N/A	
90	1/24/2026	106.4	9871.7	9,661	5,782	680,930	10,612	N/A	
91	1/29/2026	104.4	9687.7	3,367	5,222	680,850	10,699	N/A	
92	1/30/2026	102.3	9844.5	8,471	4,897	680,499	10,593	N/A	
93	1/31/2026	94.9	9716.7	5,809	5,259	639,251	10,118	N/A	
94	2/1/2026	97.7	9464.7	8,741	5,847	680,749	10,507	N/A	
95	2/1/2026	109.4	9025.3	6,933	6,003	680,872	10,866	N/A	
96	2/2/2026	104.2	9556.8	6,673	5,790	680,568	11,582	N/A	
97	2/2/2026	94.8	9754.5	8,297	5,486	681,146	10,228	N/A	
98	2/15/2026	100.4	9461.4	4,804	4,351	692,140	10,222	N/A	
99	2/15/2026	101.1	9100.0	5,411	5,314	692,020	10,307	N/A	
100	2/16/2026	102.8	9168.5	6,410	4,954	691,970	10,253	N/A	
101	2/16/2026	99.7	9216.0	6,718	5,393	692,140	10,614	N/A	
102	2/17/2026	102.8	9071.9	8,532	4,515	692,240	10,298	N/A	
103	2/17/2026	89.9	9495.2	5,415	4,997	692,360	12,821	N/A	
104	2/18/2026	101.8	8567.1	4,940	5,303	692,220	10,345	N/A	
105	2/18/2026	100.2	8557.3	5,585	4,335	691,940	11,459	N/A	
106	2/19/2026	102.0	8780.7	6,163	5,670	692,350	10,989	N/A	
107	2/19/2026	102.3	8431.4	4,563	5,965	692,460	10,095	N/A	
108	2/20/2026	102.1	8454.8	4,039	4,764	691,840	10,288	N/A	
109	2/20/2026	102.5	8728.7	5,259	5,242	692,030	10,193	N/A	
110	2/21/2026	102.1	8506.9	5,044	3,683	692,070	10,251	N/A	
111	2/21/2026	99.5	8394.4	5,195	5,248	691,470	10,164	N/A	
112	2/21/2026	99.2	8682.8	3,882	4,124	692,000	10,170	N/A	
113	2/21/2026	102.6	8476.2	4,807	3,834	691,960	10,155	N/A	
114	2/22/2026	102.0	8827.5	3,851	4,266	692,000	10,203	N/A	
115	2/23/2026	102.3	8316.8	5,295	3,783	692,210	10,240	N/A	
116	2/23/2026	101.1	8361.9	4,284	4,617	681,770	10,111	N/A	
AVERAGE		96	9853.5	7,420	5,414	76,514,885	1,528,019	TOTAL	

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Sandstone, Occ Siltstone	275	425	275	425
Silty Sandstone	425	625	425	625
Sandstone, Siltstone	625	925	625	925
Sandy Siltstone	725	1,175	725	1,175
Siltstone, Occ Sandstone	925	1,175	925	1,175
Sandy Siltstone	1,175	1,275	1,175	1,275
Siltstone, tr Sandstone	1,275	1,325	1,275	1,325
Siltstone, tr Sandstone, tr Shale	1,325	1,825	1,325	1,825
Sandstone	1,825	1,975	1,825	1,975
Silty Sandstone	1,975	2,125	1,975	2,125
Sandstone, Occ Siltstone	2,125	2,275	2,125	2,275
Sandstone	2,275	2,325	2,275	2,325
Silty Sandstone	2,325	2,203	2,325	2,203
Big Lime	2,228	2,607	2,203	2,607
Fifty Foot Sandstone	2,607	2,755	2,582	2,755
Gordon	2,755	2,916	2,730	2,916
Fifth Sandstone	2,916	3,196	2,891	3,197
Bayard	3,196	3,759	3,172	3,766
Speechley	3,759	3,913	3,741	3,923
Balltown	3,913	4,551	3,898	4,574
Bradford	4,551	5,064	4,549	5,098
Benson	5,064	5,302	5,073	5,340
Alexander	5,302	6,786	5,315	6,898
Sycamore	6,619	6,761	6,701	6,873
Middlesex	6,761	6,905	6,873	7,086
Burkett	6,905	7,048	7,086	7,453
Marcellus	7,048	NA	7,453	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/01/2025
Job End Date:	02/23/2026
State:	West Virginia
County:	Lewis
API Number:	47-041-05762-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Van Wie 1221 N-3H
Latitude:	39.094905
Longitude:	-80.668403
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7179
Total Base Water Volume (gal)*:	55990494
Total Base Non Water Volume:	0



Water Source	Percent
Other, > 1000TDS	100.00%

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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	Operator	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	85.65782	None
Sand (40/70 White Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	12.30711	None
Sand (100 Mesh Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	1.67346	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.19367	None
			Water	7732-18-5	90.00000	0.01722	None
			Inorganic salt	Proprietary	10.00000	0.01320	None

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			Oxyalkylated alcohol	Proprietary	5.00000	0.00660	None
			Non-hazardous substances	Proprietary	70.00000	0.00311	None
			Substituted alkylamine	Proprietary	1.00000	0.00132	None
			Inorganic salt	Proprietary	10.00000	0.00099	None
			Methanol	67-56-1	20.00000	0.00089	None
	RECEIVED Office of Oil and Gas JUL 22 2026		Quarternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00057	None
	WV Department of Environmental Protection		Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00057	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00049	None
			Petroleum distillate	64741-44-2	60.00000	0.00046	None
			Substituted alkylamine	Proprietary	1.00000	0.00010	None
Hydrochloric Acid (15%)	Pad2Pad	Acidizing					
			Water	7732-18-5	85.00000	0.19367	None
			Hydrochloric Acid	7647-01-0	15.00000	0.03418	None
TRUSlick C	Pad2Pad	Friction Reducer					
			Hydrotreated light distillate	64742-47-8	30.00000	0.03960	None
			Inorganic salt	Proprietary	10.00000	0.01320	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00660	None
			Substituted alkylamine	Proprietary	1.00000	0.00132	None
Aquacide 12:3	Pad2Pad	Biocide					
			Water	7732-18-5	90.00000	0.01722	None
			Glutaraldehyde	111-30-8	20.00000	0.00383	None
			Quarternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00057	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00057	None
SI 9125	Pad2Pad	Scale Inhibitor					
			Non-hazardous substances	Proprietary	80.00000	0.01803	None
TruCorr 880	Pad2Pad	Corrosion Inhibitor					
			Non-hazardous substances	Proprietary	70.00000	0.00311	None
			1-Hydroxyethylidene-, 1-diphosphonic acid	2809-21-4	20.00000	0.00089	None

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			(HEDP)				
			Methanol	67-56-1	20.00000	0.00089	None
TRUSlick 4C	Pad2Pad	Friction Reducer					
			Hydrotreated light distillate	64742-47-8	30.00000	0.00296	None
			Inorganic salt	Proprietary	10.00000	0.00099	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00049	None
			Substituted alkylamine	Proprietary	1.00000	0.00010	None
CoilSTREAM VB 625	Chemstream	Visc. Builder					
			Heavy Aliphatic Naphtha	64742-96-7	50.00000	0.00410	None
TruGel 100	Pad2Pad	Guar					
			Petroleum distillate	64741-44-2	60.00000	0.00046	None
			Guar Gum	9000-30-0	60.00000	0.00046	None
TruBreak 100	Pad2Pad	Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00011	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%

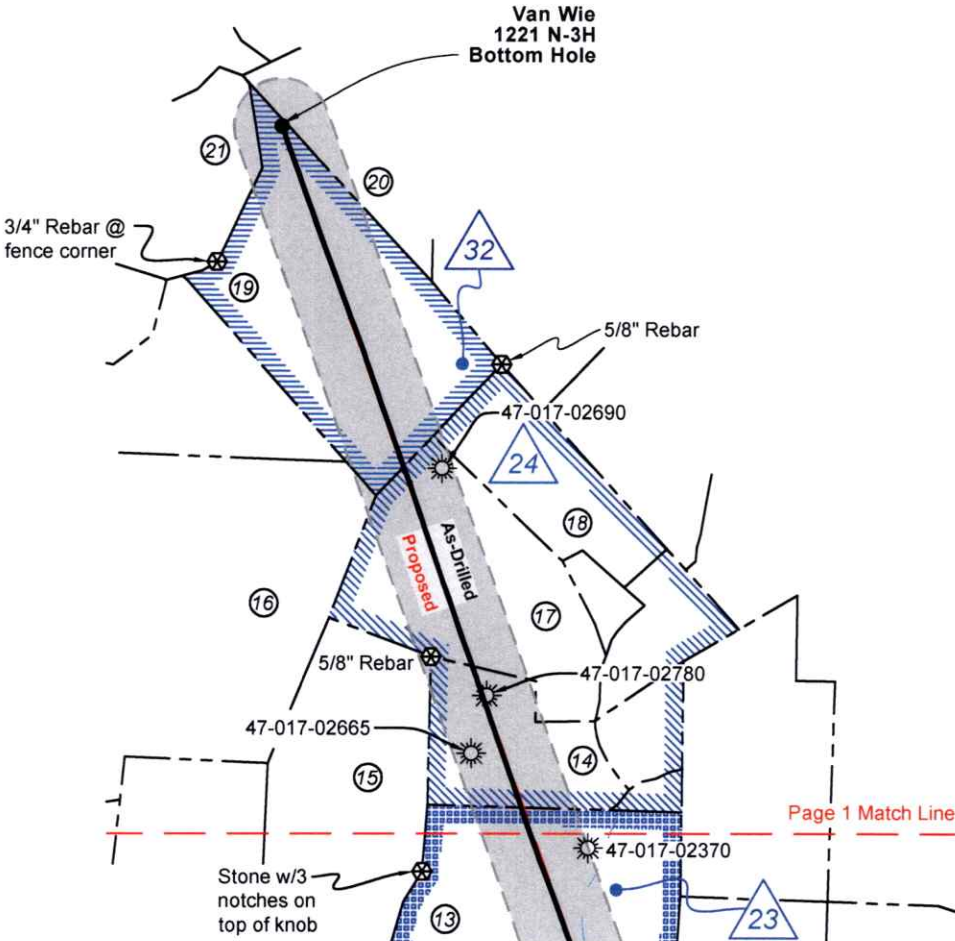
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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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DESIGNATED AGENT: Conrad Baston
ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330



Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Existing Plugged Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)

Notes

West Virginia Coordinate System
of 1927, South Zone
based upon Differential GPS Measurements.

Well No. Van Wie Unit 1221 N-3H

Top Hole coordinates are

N: 762,993.28' Latitude: 39°05'41.31"

E: 2,094,073.05' Longitude: 80°40'06.88"

Bottom Hole coordinates are

N: 784,883.35' Latitude: 39°09'17.89"

E: 2,087,117.03' Longitude: 80°41'34.19"

UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates

N: 4,327,359.928m N: 4,334,028.802m

E: 528,675.362m E: 526,555.532m

Plat orientation and corner and well references
are based upon the grid north meridian.

Well location references are based upon the magnetic
meridian.

Notes:

Well No. Van Wie Unit
1221 N-3H

As-Drilled POE Coordinates

WV Coordinate System
of 1927, South Zone

N: 763,592.13'

E: 2,094,623.65'

Latitude: 39°05'47.21"

Longitude: 80°39'59.88"

UTM Zone 17, NAD 1983

N: 4,327,542.392m

E: 528,843.097m

Lewis Co. (Freemans Creek Dist.)

No.	TM / Par	Owner	Bk / Pg	Ac.
1	2D / 3	HG Energy II Appalachia, LLC	800 / 637	131.85
2	2D / 29	Anthony S. & Dawn H. VanWie	732 / 622	26.63
3	2D / 30	Anthony S. & Dawn H. VanWie	732 / 622	19.00
4	2D / 37	Jacob R. Straley Heirs	728 / 53	97.00
5	2D / 3.1	HG Energy II Appalachia, LLC	800 / 637	20.00
6	2C / 7	James R. & Shelia A. Gum, II	721 / 350	350.78
7	2C / 4	Susanne Securro	725 / 199	111.75
8	2C / 3	Stephen Ruppert	666 / 428	102.46
9	2C / 2	Clarence D. Brown	W4 / 572	96.50

Doddridge Co. (Cove Dist.)

No.	TM / Par	Owner	Bk / Pg	Ac.
10	10 / 13	Clarence D. Brown	W20 / 306	12.50
11	10 / 15.1	Scott Flanagan, et al	239 / 591	101.56
12	10 / 14	Clarence D. Brown	W20 / 306	180.00
13	6 / 11	Joseph D. & Darlene K. Church	244 / 451	107.60
14	6 / 10.1	Leah Kelly	488 / 492	52.83
15	10 / 5	Edith G. Wilson Trust	255 / 247	159.30
16	6 / 9	Marcella Yeater	328 / 667	193.00
17	6 / 10.3	Brandon W. Gilbert	211 / 126	104.90
18	6 / 10.2	Robert Johnson & Ricky Jenkins	505 / 637	51.84
19	6 / 4	Mary A. Ruddy & Teigh R. Byrne	226 / 360	140.00
20	3 / 1	Mary A. Ruddy & Teigh R. Byrne	218 / 120	52.25

Doddridge Co. (New Milton Dist.)

No.	TM / Par	Owner	Bk / Pg	Ac.
21	19 / 12	Sandra E. Erwin	W80 / 32	79.30

FILE NO: 63-12-FC-26

DRAWING NO: Van Wie 1221 N-3H As-Drilled

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: July 15 20 26

OPERATOR'S WELL NO. Van Wie 1221 N-3H

API WELL NO

47 — 041 — 05762

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1,251.77' WATERSHED: Fink Creek

DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC, et al

ROYALTY OWNER: Joseph Krenn, et al

LEASE NO: ACREAGE: 245

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 30,227' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street

ADDRESS: 535 White Oaks Blvd.

Denver, CO 80202

Bridgeport, WV 26330