

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

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JUL 22 2026

WV Department of
Environmental Protection

API 47-041-05765 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-6H ST02
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 4327369.045m Easting 528685.736m
Landing Point of Curve Northing 4327879.60m Easting 529699.53m
Bottom Hole Northing 4332254.304m Easting 528130.805m

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 10/18/2024 Date drilling ceased 7/22/2025
Date completion activities began 10/18/2025 Date completion activities ceased 3/24/2026
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:

Kenneth L. Reynolds

07/31/2026

API 47- 041 - 05765 Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-6H ST02

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"	1232'	New	94#, J-55	N/A	Y
Coal							
Intermediate 1	17-1/2"	13-3/8"	2830'	New	68#, J-55	N/A	Y
Intermediate 2	12-1/4"	9-5/8"	7492'	New	40# J-55	N/A	
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	24479'	New	23#, P-110	N/A	
Tubing		2-3/8"	8238'		4.7#, P-110		
Packer type and depth set		N/A					

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Comment Details _____

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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	290 sks	15.6	1.18	342	0'	8 Hrs.
Surface	Class A	901 sks	15.6	1.18	1063	0'	8 Hrs.
Coal							
Intermediate 1	Class A	695 sks	15.9	1.17	813	0'	8 Hrs.
Intermediate 2	Class A	190 sks	15.2	1.25	238	0'	8 Hrs.
Intermediate 3							
Production	Class A	1967 sks	14.6(Tail)	1.38 (Tail)	2714	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 24479' MD, 7193' TVD (BHL), 7193' (Deepest Point Drilled)

Loggers TD (ft) 24479' MD

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

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 - 05765 Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-6H ST02

PERFORATION RECORD

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

***PLEASE SEE ATTACHED EXHIBIT 1**

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					Environmental Protection

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)

***PLEASE SEE ATTACHED EXHIBIT 2**

Please insert additional pages as applicable.

07/31/2026

API 47- 041 - 05765 Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-6H ST02

PRODUCING FORMATION(S)

DEPTHS

Marcellus 7042' (TOP) TVD 8836' (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 16928 mcfpd Oil 142 bpd NGL --- bpd Water 612 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 7/21/26

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

07/31/2026

API 47-041-05765 Farm Name HG Energy II Appalachia, LLC et al Well Number 1221-N Unit 6H					
Exhibit 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/18/2025	24399	24352	12	Marcellus
2	10/19/2025	24299	24150	32	Marcellus
3	10/20/2025	24122	23954	32	Marcellus
4	10/21/2025	23926	23758	32	Marcellus
5	10/22/2025	23730	23562	32	Marcellus
6	10/22/2025	23534	23366	32	Marcellus
7	10/23/2025	23338	23170	32	Marcellus
8	10/24/2025	23142	22974	32	Marcellus
9	10/25/2025	22946	22778	32	Marcellus
10	10/26/2025	22750	22582	32	Marcellus
11	10/27/2025	22554	22386	32	Marcellus
12	10/27/2025	22358	22190	32	Marcellus
13	10/28/2025	22162	21994	32	Marcellus
14	10/29/2025	21966	21798	32	Marcellus
15	10/29/2025	21770	21602	32	Marcellus
16	10/30/2025	21574	21406	32	Marcellus
17	10/31/2025	21378	21210	32	Marcellus
18	10/31/2025	21182	21014	32	Marcellus
19	11/1/2025	20986	20818	32	Marcellus
20	11/2/2025	20790	20622	32	Marcellus
21	11/2/2025	20594	20426	32	Marcellus
22	11/3/2025	20398	20230	32	Marcellus
23	11/4/2025	20202	20034	32	Marcellus
24	11/5/2025	20006	19838	32	Marcellus
25	11/5/2025	19810	19642	32	Marcellus
26	11/6/2025	19614	19446	32	Marcellus
27	11/7/2025	19418	19220	44	Marcellus
28	11/7/2025	19193	19039	32	Marcellus
29	11/8/2025	19012	18858	32	Marcellus
30	11/9/2025	18830	18662	32	Marcellus
31	11/9/2025	18634	18466	32	Marcellus
32	11/10/2025	18438	18270	32	Marcellus
33	11/10/2025	18242	18074	32	Marcellus
34	11/11/2025	18046	17878	32	Marcellus
35	11/12/2025	17850	17682	32	Marcellus
36	11/12/2025	17654	17486	32	Marcellus
37	11/13/2025	17458	17260	44	Marcellus
38	11/13/2025	17233	17079	32	Marcellus
39	11/14/2025	17052	16898	32	Marcellus
40	11/15/2025	16870	16672	44	Marcellus
41	11/16/2025	16645	16491	32	Marcellus
42	11/16/2025	16464	16310	32	Marcellus
43	11/17/2025	16282	16114	32	Marcellus
44	11/18/2025	16087	15919	32	Marcellus
45	11/18/2025	15893	15725	32	Marcellus
46	11/19/2025	15699	15531	32	Marcellus
47	11/19/2025	15505	15337	32	Marcellus
48	11/19/2025	15311	15143	32	Marcellus
49	11/20/2025	15117	14949	32	Marcellus
50	11/20/2025	14923	14755	32	Marcellus
51	11/21/2025	14729	14561	32	Marcellus
52	11/21/2025	14535	14367	32	Marcellus
53	11/21/2025	14341	14173	32	Marcellus
54	11/21/2025	14147	13979	32	Marcellus
55	11/22/2025	13953	13785	32	Marcellus
56	11/22/2025	13759	13591	32	Marcellus
57	11/22/2025	13565	13397	32	Marcellus
58	11/22/2025	13371	13203	32	Marcellus
59	11/22/2025	13177	13009	32	Marcellus
60	11/23/2025	12983	12815	32	Marcellus
61	11/23/2025	12789	12621	32	Marcellus
62	11/23/2025	12595	12427	32	Marcellus
63	11/23/2025	12401	12233	32	Marcellus
64	11/24/2025	12207	12039	32	Marcellus
65	11/24/2025	12013	11845	32	Marcellus
66	11/24/2025	11819	11651	32	Marcellus
67	11/24/2025	11625	11457	32	Marcellus
68	11/24/2025	11431	11263	32	Marcellus
69	11/25/2025	11237	11069	32	Marcellus
70	11/25/2025	11043	10875	32	Marcellus
71	11/25/2025	10849	10681	32	Marcellus
72	11/25/2025	10655	10487	32	Marcellus
73	11/25/2025	10461	10293	32	Marcellus
74	11/25/2025	10267	10099	32	Marcellus
75	11/30/2025	10073	9905	32	Marcellus
76	11/30/2025	9879	9711	32	Marcellus
77	11/30/2025	9685	9517	32	Marcellus
78	11/30/2025	9491	9323	32	Marcellus
79	12/1/2025	9297	9129	32	Marcellus
80	12/1/2025	9103	8935	32	Marcellus

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API 47-041-05765 Farm Name HG Energy II Appalachia, LLC, et al Well Number 1221-N Unit 6H							
EXHIBIT 2							
Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Nitrogen/other (units)
1	10/18/2025	67.1	9671.4	8507	5073	0	3922 N/A
2	10/19/2025	79.5	10023.1	5902	4237	363160	11458 N/A
3	10/20/2025	86.4	10681.2	5342	4578	404650	12138 N/A
4	10/21/2025	86.0	10604.9	5329	4878	464850	12969 N/A
5	10/22/2025	87.5	10396.6	5549	4240	701000	15420 N/A
6	10/22/2025	91.2	10415.3	5574	4880	701800	15289 N/A
7	10/23/2025	93.4	10417.6	5426	5470	705770	13502 N/A
8	10/24/2025	90.4	10439.4	5598	5490	705700	13902 N/A
9	10/25/2025	92.4	10529.7	5904	5479	705550	13192 N/A
10	10/26/2025	91.8	10532.7	5752	5168	705840	13671 N/A
11	10/27/2025	86.9	10568.1	5577	5531	705930	12858 N/A
12	10/27/2025	96.7	10528.1	7842	5513	705770	12344 N/A
13	10/28/2025	94.3	10069.0	7639	5183	705200	12396 N/A
14	10/29/2025	96.5	10254.2	7048	5508	705780	12256 N/A
15	10/29/2025	94.1	10068.4	8441	5465	705100	11313 N/A
16	10/30/2025	98.4	10232.1	8084	5169	705680	11375 N/A
17	10/31/2025	98.9	10313.0	8241	5504	705420	11459 N/A
18	10/31/2025	91.1	10278.2	8862	5540	705120	12069 N/A
19	11/1/2025	98.6	10344.4	7687	5000	706420	11367 N/A
20	11/2/2025	95.7	10237.4	8231	5692	705480	11234 N/A
21	11/2/2025	96.6	10265.8	8510	5769	705340	11253 N/A
22	11/3/2025	99.7	10430.3	7227	5641	705620	11224 N/A
23	11/4/2025	96.7	10146.3	8796	5744	680440	11127 N/A
24	11/5/2025	97.6	9998.3	8459	5686	680470	11711 N/A
25	11/5/2025	97.7	10406.5	8817	5660	680680	11054 N/A
26	11/6/2025	93.1	9994.4	7914	5457	679620	11030 N/A
27	11/7/2025	89.8	10188.9	5877	5567	691040	15185 N/A
28	11/7/2025	100.2	10272.7	8586	5642	680340	11277 N/A
29	11/8/2025	98.9	10294.8	7837	5664	680360	11197 N/A
30	11/9/2025	97.0	10267.2	8449	6009	680400	10852 N/A
31	11/9/2025	101.5	10197.3	7360	5898	680580	10861 N/A
32	11/10/2025	101.4	10260.9	8083	5978	680720	10950 N/A
33	11/10/2025	92.9	10051.0	8684	5568	605420	11684 N/A
34	11/11/2025	98.8	10153.0	7831	6412	573360	11446 N/A
35	11/12/2025	96.1	10347.2	8276	5812	634000	11458 N/A
36	11/12/2025	98.8	10043.9	7591	5242	660220	11448 N/A
37	11/13/2025	101.8	10193.8	8395	6191	660240	13381 N/A
38	11/13/2025	91.6	10202.3	7412	5914	660060	12959 N/A
39	11/14/2025	98.9	10080.6	7603	5824	660220	9927 N/A
40	11/15/2025	104.0	10207.8	6859	5446	537740	13106 N/A
41	11/16/2025	104.5	10164.3	7700	6472	660620	9838 N/A
42	11/16/2025	96.6	9921.0	7491	6020	660240	9731 N/A
43	11/17/2025	98.6	10061.9	8039	6414	660000	12076 N/A
44	11/18/2025	89.6	10186.6	8595	4515	630370	11141 N/A
45	11/18/2025	96.0	10162.0	8463	5541	587090	9498 N/A
46	11/19/2025	81.0	10319.3	8847	5672	617510	12725 N/A
47	11/19/2025	103.2	10080.3	7957	5942	660480	9732 N/A
48	11/19/2025	83.5	9794.8	8325	6454	557650	8999 N/A
49	11/20/2025	107.6	10007.0	8026	5453	660390	9674 N/A
50	11/20/2025	103.1	10267.1	5224	4817	317720	8269 N/A
51	11/21/2025	92.1	9845.3	10036	5725	660560	10801 N/A
52	11/21/2025	101.2	10047.8	9049	5397	660380	10897 N/A
53	11/21/2025	108.1	9996.7	7929	5516	660340	9747 N/A
54	11/21/2025	103.5	10012.6	7150	5864	660620	9701 N/A
55	11/23/2025	80.3	9794.0	8787	4912	660140	13941 N/A
56	11/22/2025	102.4	9884.0	8664	5479	660000	9473 N/A
57	11/22/2025	106.9	9902.8	8280	5126	457240	9080 N/A
58	11/22/2025	104.3	9934.5	8694	5325	660280	9928 N/A
59	11/22/2025	109.9	9444.8	7301	5724	660156	9632 N/A
60	11/23/2025	102.8	9639.4	8851	5355	660340	10197 N/A
61	11/23/2025	103.7	9975.5	8455	5332	571670	10217 N/A
62	11/23/2025	106.6	9330.7	8699	6349	660310	10156 N/A
63	11/23/2025	103.4	9878.4	8274	5732	660620	11340 N/A
64	11/24/2025	98.1	9664.2	5668	4962	660360	10388 N/A
65	11/24/2025	108.5	9535.0	7456	5634	660490	10052 N/A
66	11/24/2025	109.9	9410.6	8390	5457	660380	9522 N/A
67	11/24/2025	109.6	9269.4	8463	5855	627580	9278 N/A
68	11/24/2025	109.3	9521.7	8054	5595	660150	9996 N/A
69	11/25/2025	109.4	9453.7	8226	5741	660430	9724 N/A
70	11/25/2025	106.1	9284.7	9306	5164	660210	10120 N/A
71	11/25/2025	109.9	9558.0	6655	5056	660340	9499 N/A
72	11/25/2025	107.4	9645.6	7828	5083	660610	10493 N/A
73	11/25/2025	110.5	9117.3	7966	6047	660450	9440 N/A
74	11/25/2025	109.3	9018.4	6828	6295	660310	9570 N/A
75	11/30/2025	108.1	9161.3	8440	5359	595470	10171 N/A
76	11/30/2025	108.7	9187.9	7514	6348	562830	9174 N/A
77	11/30/2025	109.8	8738.8	7508	5390	568160	8990 N/A
78	11/30/2025	104.2	9323.4	7554	4525	681170	11045 N/A
79	12/1/2025	110.1	8526.8	7429	6463	660260	9274 N/A
80	12/1/2025	107.5	9163.0	7572	4812	503320	9082 N/A
AVERAGE		99	9960	7685	5521	50,838,336	879,875 TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	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	2,199	2,325	2,199
Big Lime	2,224	2,605	2,199	2,605
Fifty Foot Sandstone	2,605	2,758	2,580	2,758
Gordon	2,758	2,918	2,733	2,918
Fifth Sandstone	2,918	3,200	2,893	3,201
Bayard	3,200	3,768	3,176	3,792
Speechley	3,768	3,948	3,767	3,990
Balltown	3,948	4,573	3,965	4,769
Bradford	4,573	5,053	4,744	5,488
Benson	5,053	5,324	5,463	5,903
Alexander	5,324	6,767	5,878	8,083
Sycamore	6,573	6,742	7,785	8,058
Middlesex	6,742	6,885	8,058	8,332
Burkett	6,885	7,042	8,332	8,836
Marcellus	7,042	NA	8,836	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:	10/18/2025
Job End Date:	12/01/2025
State:	West Virginia
County:	Lewis
API Number:	47-041-05765-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Van Wie 1221 N-6H
Latitude:	39.094986
Longitude:	-80.668283
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7162.71455625
Total Base Water Volume (gal)*:	36966510
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	85.55387	None
Sand (40/70 White Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	12.44388	None
Sand (100 Mesh Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	1.64494	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.19022	None
			Water	7732-18-5	90.00000	0.01806	None
			Inorganic salt	Proprietary	10.00000	0.01461	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00730	None

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			Non-hazardous substances	Proprietary	70.00000	0.00392	None
			Substituted alkylamine	Proprietary	1.00000	0.00146	None
			Methanol	67-56-1	20.00000	0.00112	None
			Quarternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00060	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00060	None
			Petroleum distillate	64741-44-2	60.00000	0.00058	None
Hydrochloric Acid (15%)	Pad2Pad	Acidizing					
			Water	7732-18-5	85.00000	0.19022	None
			Hydrochloric Acid	7647-01-0	15.00000	0.03357	None
TRUSlick C	Pad2Pad	Friction Reducer					
			Hydrotreated light distillate	64742-47-8	30.00000	0.04382	None
			Inorganic salt	Proprietary	10.00000	0.01461	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00730	None
			Substituted alkylamine	Proprietary	1.00000	0.00146	None
Aquacide 12:3	Pad2Pad	Biocide					
			Water	7732-18-5	90.00000	0.01806	None
			Glutaraldehyde	111-30-8	20.00000	0.00401	None
			Quarternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00060	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00060	None
SI 9125	Pad2Pad	Scale Inhibitor					
			Non-hazardous substances	Proprietary	80.00000	0.01924	None
TruCorr 880	Pad2Pad	Corrosion Inhibitor					
			Non-hazardous substances	Proprietary	70.00000	0.00392	None
			1-Hydroxyethylidene-, 1-diphosphonic acid (HEDP)	2809-21-4	20.00000	0.00112	None
			Methanol	67-56-1	20.00000	0.00112	None
TruGel 100	Pad2Pad	Guar					
			Petroleum distillate	64741-44-2	60.00000	0.00058	None
			Guar Gum	9000-30-0	60.00000	0.00058	None
TruBreak 100	Pad2Pad	Breaker					

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			Ammonium Persulfate	7727-54-0	100.00000	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.

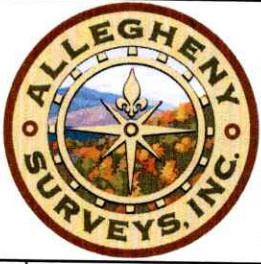
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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WELL OPERATOR: <u>Antero Resources Corporation</u>	DESIGNATED AGENT: <u>Conrad Baston</u>
ADDRESS: <u>1615 Wynkoop Street</u>	ADDRESS: <u>535 White Oaks Blvd.</u>
<u>Denver, CO 80202</u>	<u>Bridgeport, WV 26330</u>

Antero Resources
Well No. Van Wie 1221 N-6H ST02
As-Drilled
Antero Resources Corporation

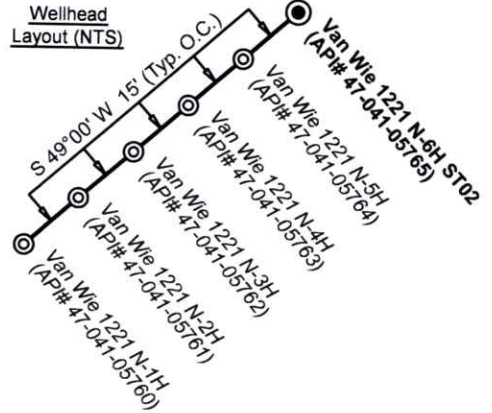


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Legend

- 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.)

Wellhead
Layout (NTS)



ID	Lease
1	J.C. Starcher & A.C. Starcher
2	HG Energy II Appalachia, LLC
3	Joseph Krenn, et ux
16	William Walsh
17	Frank J. Maxwell, et ux, et al
18	Lorena M. Fahey, et vir, et al
19	C.E. Lawhead, et ux, et al
20	Leeman Maxwell, et al
21	Dennis Conry & Maggie Conry
22	Virginia Trimble, et al
25	Emma Droppleman, et al
28	R.A. Droppleman, et ux, et al

Notes

West Virginia Coordinate System
of 1927, South Zone
based upon Differential GPS Measurements.
Well No. Van Wie Unit 1221 N-6H ST02
Top Hole coordinates are
N: 763,023.20' Latitude: 39°05'41.60"
E: 2,094,107.10' Longitude: 80°40'06.46"
Bottom Hole coordinates are
N: 779,058.34' Latitude: 39°08'20.15"
E: 2,092,287.05' Longitude: 80°40'28.82"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,327,369.045m N: 4,332,254.304m
E: 528,685.736m E: 528,130.805m
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-6H ST01
As-Drilled POE Coordinates
WV Coordinate System
of 1927, South Zone
N: 764,759.82'
E: 2,097,338.77'
Latitude: 39°05'58.65"
Longitude: 80°39'25.39"
UTM Zone 17, NAD 1983
N: 4,327,898.228m
E: 529,670.277m

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 / 45	Matthew D. & Linda S. Richards	553 / 117	54.00
6	2D / 3.1	HG Energy II Appalachia, LLC	800 / 637	20.00
7	2D / 38	William J. & Ann McCutchan	793 / 173	26.96
8	2D / 40	Judith A. Rioch	403 / 270	63.89
9	2D / 42	Frances McCutchan, et al	726 / 561	124.30
10	2C / 7	James R. & Shelia A. Gum, II	721 / 350	350.78
11	2C / 9	William & Anne McCutchan	683 / 426	46.04
12	2C / 10	William & Anne McCutchan	683 / 426	1.04
13	2C / 8	Frances McCutchan	726 / 561	9.00
14	2C / 12	Frances McCutchan, et al	726 / 561	159.75
15	2C / 11	Robert E. & Joyce E. McCutchan	775 / 930	91.14
16	2C / 13	Jenny E. Dropplemann, et al	740 / 25	97.00
17	2C / 14	Jenny E. Dropplemann, et al	740 / 25	16.00
18	2C / 15	Jenny E. Dropplemann, et al	740 / 25	107.25
19	2C / 27	Dorothy K. Downey & Frank A. Altomare, Jr.	418 / 615	90.90

No.	TM / Par	Owner	Bk / Pg	Ac.
20	10 / 15	Scott Flanagan, et al	W44 / 594	98.44
21	10 / 15.1	Scott Flanagan, et al	239 / 591	101.56
22	6 / 11.1	Florence A. Adams	W103 / 448	102.00
23	7 / 2	Florence A. Adams	W103 / 448	292.87

FILE NO: 63-12-FC-26

DRAWING NO: Van Wie 1221 N-6H 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-6H ST02

API WELL NO

47 — 041 — 05765
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: 7,193' TVD
24,479' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330