

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

API 47 - 041 - 05760 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-1H
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 4327353.813m Easting 528668.590m
Landing Point of Curve Northing 4327456.16m Easting 528213.19m
Bottom Hole Northing 4330720.575m Easting 527075.037m

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 10/21/2024 Date drilling ceased 4/8/2025
Date completion activities began 12/9/2025 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 by:

Reviewed

Kevin L. Byrd
07/31/2026

API 47- 041 - 05760 Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-1H

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"	1248'	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"	6117'	New	40# N/L-80 BTC	N/A	
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	19493'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7209'		4.7#, P-110		
Packer type and depth set		N/A					

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Comment Details JUL 22 2026

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	WV Department of Environmental Protection Brownsville Top (MD)	WOC (hrs)
Conductor	Class A	277 sks	15.6	1.18	327	0'	8 Hrs.
Surface	Class A	1028 sks	15.6	1.20	1234	0'	8 Hrs.
Coal							
Intermediate 1	Class A	760 sks	15.4	1.24	942	0'	8 Hrs.
Intermediate 2	Class A	190 sks	15.2	1.25	238	0'	8 Hrs.
Intermediate 3							
Production	Class A	2752 sks	14.8(Tail)	1.94 (Tail)	5339	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 19493' MD, 7120' TVD (BHL), 7133' (Deepest Point Drilled) Loggers TD (ft) 19493' 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

07/31/2026

Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-1H

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]

07/31/2026

API 47-041-05760 Farm name HG Energy II Appalachia, LLC, et al Well number Van Wie 1221 N-1H

PRODUCING FORMATION(S)

DEPTHS

Marcellus 7033' (TOP) TVD 7578' (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 15078 mcfpd Oil 76 bpd NGL — bpd Water 394 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 47-041-05760 Farm Name HG Energy II Appalachia, LLC, et al Well Number 1221-N Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/9/2025	19413.0	19383.0	8	Marcellus
2	12/10/2025	19254.0	19130.0	32	Marcellus
3	12/10/2025	19106.0	18983.0	32	Marcellus
4	12/11/2025	18957.0	18787.0	32	Marcellus
5	12/11/2025	18761.0	18591.0	32	Marcellus
6	12/12/2025	18565.0	18395.0	32	Marcellus
7	12/13/2025	18369.0	18199.0	32	Marcellus
8	12/13/2025	18173.0	18003.0	32	Marcellus
9	12/13/2025	17977.0	17807.0	32	Marcellus
10	12/13/2025	17781.0	17611.0	32	Marcellus
11	12/16/2025	17585.0	17415.0	32	Marcellus
12	1/29/2026	17389.0	17219.0	32	Marcellus
13	1/30/2026	17193.0	17023.0	32	Marcellus
14	1/31/2026	16997.0	16827.0	32	Marcellus
15	2/1/2026	16801.0	16631.0	32	Marcellus
16	2/2/2026	16577.0	16421.0	32	Marcellus
17	2/3/2026	16367.0	16217.0	32	Marcellus
18	2/3/2026	16193.0	16043.0	32	Marcellus
19	2/4/2026	16017.0	15847.0	32	Marcellus
20	2/5/2026	15821.0	15651.0	32	Marcellus
21	2/5/2026	15625.0	15455.0	32	Marcellus
22	2/6/2026	15429.0	15259.0	32	Marcellus
23	2/6/2026	15233.0	15063.0	32	Marcellus
24	2/7/2026	15037.0	14867.0	32	Marcellus
25	2/9/2026	14841.0	14671.0	32	Marcellus
26	2/9/2026	14645.0	14475.0	32	Marcellus
27	2/9/2026	14449.0	14279.0	32	Marcellus
28	2/10/2026	14253.0	14083.0	32	Marcellus
29	2/10/2026	14057.0	13887.0	32	Marcellus
30	2/10/2026	13861.0	13691.0	32	Marcellus
31	2/11/2026	13666.0	13496.0	32	Marcellus
32	2/11/2026	13472.0	13302.0	32	Marcellus
33	2/12/2026	13278.0	13108.0	32	Marcellus
34	2/12/2026	13084.0	12914.0	32	Marcellus
35	2/12/2026	12890.0	12720.0	32	Marcellus
36	2/12/2026	12696.0	12526.0	32	Marcellus
37	2/13/2026	12502.0	12332.0	32	Marcellus
38	2/13/2026	12308.0	12138.0	32	Marcellus
39	2/13/2026	12114.0	11944.0	32	Marcellus
40	2/14/2026	11920.0	11750.0	32	Marcellus
41	2/14/2026	11726.0	11556.0	32	Marcellus
42	2/14/2026	11532.0	11362.0	32	Marcellus
43	2/15/2026	11338.0	11168.0	32	Marcellus
44	2/15/2026	11144.0	10974.0	32	Marcellus
45	2/16/2026	10950.0	10780.0	32	Marcellus
46	2/16/2026	10756.0	10586.0	32	Marcellus
47	2/16/2026	10562.0	10392.0	32	Marcellus
48	2/17/2026	10368.0	10198.0	32	Marcellus
49	2/17/2026	10174.0	10004.0	32	Marcellus
50	2/18/2026	9980.0	9810.0	32	Marcellus
51	2/18/2026	9786.0	9616.0	32	Marcellus
52	2/19/2026	9592.0	9422.0	32	Marcellus
53	2/19/2026	9398.0	9228.0	32	Marcellus
54	2/20/2026	9204.0	9034.0	32	Marcellus
55	2/20/2026	9010.0	8840.0	32	Marcellus
56	2/21/2026	8816.0	8646.0	32	Marcellus
57	2/21/2026	8622.0	8452.0	32	Marcellus
58	2/22/2026	8428.0	8258.0	32	Marcellus
59	2/22/2026	8234.0	8064.0	32	Marcellus
60	2/23/2026	8040.0	7870.0	32	Marcellus
61	2/23/2026	7846.0	7676.0	32	Marcellus

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API 47-041-05760 Farm Name HG Energy II Appalachia, LLC, et al Well Number 1221-N Unit 1H

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 Water (bbls)	Amount of Nitrogen/ other (units)
1	12/9/2025	38.1	9226.8	9,664	4,923	0	2452	N/A
2	12/10/2025	98.9	9363.8	6,315	4,530	506,400	13239	N/A
3	12/10/2025	101.7	9763.9	6,097	5,179	500,670	12222	N/A
4	12/11/2025	109.2	9939.7	5,854	5,653	706,860	14318	N/A
5	12/11/2025	107.6	9926.0	5,860	5,336	705,670	14293	N/A
6	12/12/2025	108.2	9889.9	5,385	5,585	706,140	14031	N/A
7	12/13/2025	108.3	10025.0	5,500	5,481	705,400	14296	N/A
8	12/13/2025	108.8	9899.5	5,935	5,590	707,020	14518	N/A
9	12/13/2025	107.4	9930.3	6,262	5,906	706,280	14146	N/A
10	12/13/2025	100.1	9204.3	5,871	5,533	705,240	15617	N/A
11	12/16/2025	108.4	9734.0	5,736	5,226	705,940	14281	N/A
12	1/29/2026	98.7	9810.3	6,625	5,097	705,575	14087	N/A
13	1/30/2026	91.7	9759.6	7,663	5,052	705,929	12499	N/A
14	1/31/2026	98.2	9832.7	7,671	5,506	705,395	12929	N/A
15	2/1/2026	95.3	9804.8	7,724	5,022	705,286	16596	N/A
16	2/2/2026	104.7	9602.6	9,938	4,978	706,027	16802	N/A
17	2/3/2026	94.4	9799.3	7,829	5,560	705,953	12845	N/A
18	2/3/2026	90.3	9803.6	7,979	5,743	705,621	12463	N/A
19	2/4/2026	91.5	9327.1	8,745	5,877	687,426	11147	N/A
20	2/5/2026	94.8	9662.0	6,202	5,574	687,500	13405	N/A
21	2/5/2026	95.8	9714.0	6,951	6,068	687,570	10870	N/A
22	2/6/2026	96.7	9655.0	4,235	5,979	687,470	10983	N/A
23	2/6/2026	96.4	9596.6	4,144	5,593	550,250	11141	N/A
24	2/7/2026	94.4	9053.1	5,769	5,313	687,500	11345	N/A
25	2/9/2026	95.9	9578.6	5,780	5,481	663,510	12461	N/A
26	2/9/2026	95.5	9284.9	4,489	5,745	688,090	13513	N/A
27	2/9/2026	97.1	9298.8	5,336	5,034	687,590	10781	N/A
28	2/10/2026	97.8	9402.0	5,553	4,651	687,500	10704	N/A
29	2/10/2026	91.7	9598.0	6,387	5,407	687,580	10858	N/A
30	2/10/2026	100.4	9559.9	5,334	6,147	687,690	10896	N/A
31	2/11/2026	94.8	9344.4	6,249	5,079	688,360	10702	N/A
32	2/11/2026	101.3	9148.1	5,058	4,849	687,540	10804	N/A
33	2/12/2026	95.4	9522.9	5,764	4,093	687,600	11965	N/A
34	2/12/2026	101.2	9508.0	5,579	5,445	687,720	10483	N/A
35	2/12/2026	102.4	9875.8	5,744	4,898	688,380	13648	N/A
36	2/12/2026	95.2	9786.4	5,867	3,968	687,450	12298	N/A
37	2/13/2026	96.4	9127.5	6,067	5,113	688,060	12027	N/A
38	2/13/2026	100.8	9048.7	4,041	5,831	687,770	10599	N/A
39	2/13/2026	102.5	9397.1	5,699	5,212	687,580	10771	N/A
40	2/14/2026	101.4	9305.6	5,916	5,447	687,530	10841	N/A
41	2/14/2026	99.2	9299.1	5,965	5,852	687,570	11979	N/A
42	2/14/2026	102.3	9342.3	5,922	4,635	687,730	10650	N/A
43	2/15/2026	100.6	9091.8	5,864	5,443	687,640	10519	N/A
44	2/15/2026	101.2	9508.1	5,760	6,171	687,640	10529	N/A
45	2/16/2026	101.3	8637.0	5,548	4,191	687,710	10557	N/A
46	2/16/2026	101.8	9155.2	5,801	4,912	687,370	10375	N/A
47	2/16/2026	102.5	8627.0	5,325	5,553	688,260	10534	N/A
48	2/17/2026	101.4	8806.7	6,448	4,673	687,630	10624	N/A
49	2/17/2026	96.9	9570.0	5,736	4,450	687,580	12046	N/A
50	2/18/2026	102.8	8928.3	5,698	4,771	687,670	10504	N/A
51	2/18/2026	98.7	9312.1	5,989	4,155	687,420	10742	N/A
52	2/19/2026	102.0	8522.2	5,777	4,423	687,980	10434	N/A
53	2/19/2026	101.7	8489.0	5,564	5,647	687,630	10236	N/A
54	2/20/2026	102.0	8871.7	5,452	5,561	687,710	10470	N/A
55	2/20/2026	102.4	8525.1	5,747	6,506	687,700	10440	N/A
56	2/21/2026	103.0	8363.3	5,606	4,423	688,380	10352	N/A
57	2/21/2026	103.2	8752.2	5,861	4,552	687,470	10942	N/A
58	2/22/2026	102.4	8644.1	5613	4311	687500	10404	N/A
59	2/22/2026	103.7	8559.4	5776	4440	687510	10183	N/A
60	2/23/2026	102.8	8808.3	5755	6389	687600	10190	N/A
61	2/23/2026	101.7	7793.3	5923	3478	687490	10338	N/A
AVERAGE		99.1	9,323	6,065	5,201	41,004,262	716,924	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	2,201	2,325	2,201
Big Lime	2,226	2,610	2,201	2,610
Fifty Foot Sandstone	2,610	2,751	2,585	2,751
Gordon	2,751	2,924	2,726	2,924
Fifth Sandstone	2,924	3,204	2,899	3,206
Bayard	3,204	3,783	3,181	3,804
Speechley	3,783	3,941	3,779	3,970
Balltown	3,941	4,575	3,945	4,634
Bradford	4,575	5,061	4,609	5,145
Benson	5,061	5,323	5,120	5,418
Alexander	5,323	6,768	5,393	6,978
Sycamore	6,578	6,743	6,747	6,953
Middlesex	6,743	6,888	6,953	7,177
Burkett	6,888	7,033	7,177	7,578
Marcellus	7,033	NA	7,578	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:	12/09/2025
Job End Date:	02/23/2026
State:	West Virginia
County:	Lewis
API Number:	47-041-05760-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Van Wie 1221 N-1H
Latitude:	39.094851
Longitude:	-80.668483
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7116
Total Base Water Volume (gal)*:	30150372
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	85.72114	None
Sand (40/70 White Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	12.47391	None
Sand (100 Mesh Proppant)	Operator	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	1.48582	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.18778	None
			Water	7732-18-5	90.00000	0.01285	None
			Petroleum distillate	64741-44-2	60.00000	0.01019	None

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			Inorganic salt	Proprietary	10.00000	0.00569	None
			Guar gum	9000-30-0	41.00000	0.00546	None
			Inorganic salt	Proprietary	10.00000	0.00413	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00284	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00206	None
			Non-hazardous substances	Proprietary	70.00000	0.00114	None
			Substituted alkylamine	Proprietary	1.00000	0.00057	None
			Trade Secret	Proprietary	4.00000	0.00053	None
			Quarternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00043	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00043	None
			Substituted alkylamine	Proprietary	1.00000	0.00041	None
			Methanol	67-56-1	20.00000	0.00033	None
			Trade Secret	Proprietary	2.00000	0.00027	None
			Trade Secret	Proprietary	2.00000	0.00027	None
Hydrochloric Acid (15%)	Pad2Pad	Acidizing					
			Water	7732-18-5	85.00000	0.18778	None
			Hydrochloric Acid	7647-01-0	15.00000	0.03314	None
TRUSlick C	Pad2Pad	Friction Reducer					
			Hydrotreated light distillate	64742-47-8	30.00000	0.01706	None
			Inorganic salt	Proprietary	10.00000	0.00569	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00284	None
			Substituted alkylamine	Proprietary	1.00000	0.00057	None
TruGel 100	Pad2Pad	Guar					
			Petroleum distillate	64741-44-2	60.00000	0.01019	None
			Guar Gum	9000-30-0	60.00000	0.01019	None
TRUSlick 4C	Pad2Pad	Friction Reducer					
			Hydrotreated light distillate	64742-47-8	30.00000	0.01238	None
			Inorganic salt	Proprietary	10.00000	0.00413	None
			Oxyalkylated alcohol	Proprietary	5.00000	0.00206	None
			Substituted alkylamine	Proprietary	1.00000	0.00041	None
Aquacide 12:3	Pad2Pad	Biocide					

07/31/2026

			Water	7732-18-5	90.00000	0.01285	None
			Glutaraldehyde	111-30-8	20.00000	0.00286	None
			Quarternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00043	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00043	None
SI 9125	Pad2Pad	Scale Inhibitor					
			Non-hazardous substances	Proprietary	80.00000	0.01345	None
CoilSTREAM VB 625	Chemstream	Visc. Builder					
			Heavy Aliphatic Naphtha	64742-96-7	50.00000	0.00666	None
			Guar gum	9000-30-0	41.00000	0.00546	None
			Trade Secret	Proprietary	4.00000	0.00053	None
			Trade Secret	Proprietary	2.00000	0.00027	None
			Trade Secret	Proprietary	2.00000	0.00027	None
TruCorr 880	Pad2Pad	Corrosion Inhibitor					
			Non-hazardous substances	Proprietary	70.00000	0.00114	None
			1-Hydroxyethylidene-, 1-diphosphonic acid (HEDP)	2809-21-4	20.00000	0.00033	None
			Methanol	67-56-1	20.00000	0.00033	None
TruBreak 100	Pad2Pad	Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00034	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)

RECEIVED
Office of Oil and Gas
JUL 22 2026
WV Department of
Environmental Protection

07/31/2026



Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

July 21st, 2026

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, WV 25304

RECEIVED
Office of Oil and Gas

JUL 22 2026

WV Department of
Environmental Protection

To whom it may concern:

Please find enclosed the Well Operator's Report of Well Work, Form WR-35 (including As-Drilled Survey Plat, Directional Survey and FracFocus report), Discharge Monitoring Report Form WR-34 and corresponding logs for the following wells:

- **Van Wie 1221-North Pad** – Van Wie 1221 N-1H, Van Wie 1221 N-2H, Van Wie 1221 N-3H, Van Wie 1221 N-4H, Van Wie 1221 N-5H & Van Wie 1221 N-6H (ST02)

If you have any questions please feel free to contact me at (303) 357-7373.

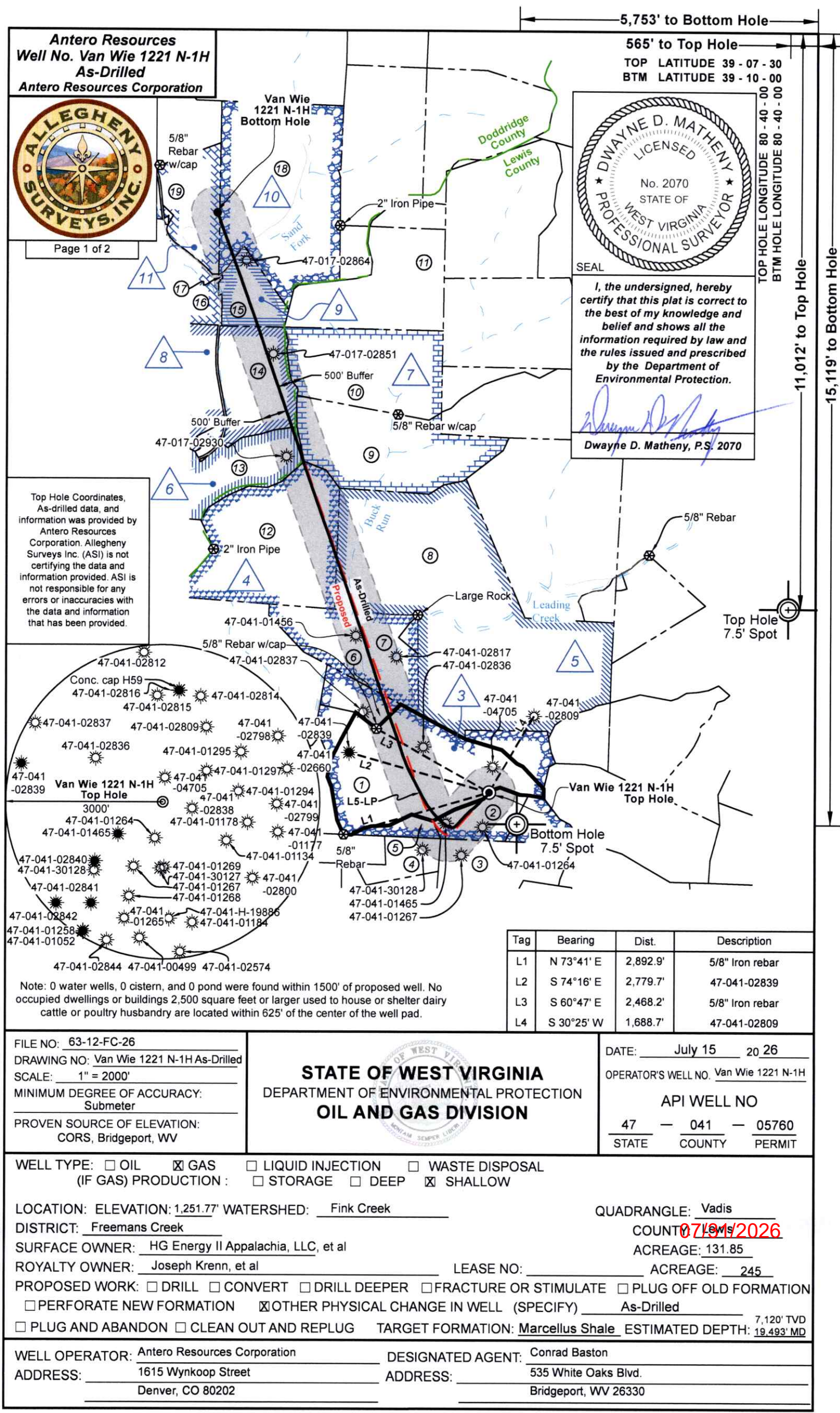
Sincerely,

A handwritten signature in black ink, appearing to read "CW", is written over a light blue horizontal line.

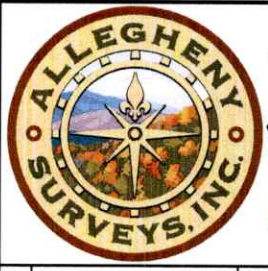
Carly Wren
Permitting Agent
Antero Resources Corporation

Enclosures

07/31/2026



Antero Resources
Well No. Van Wie 1221 N-1H
As-Drilled
Antero Resources Corporation



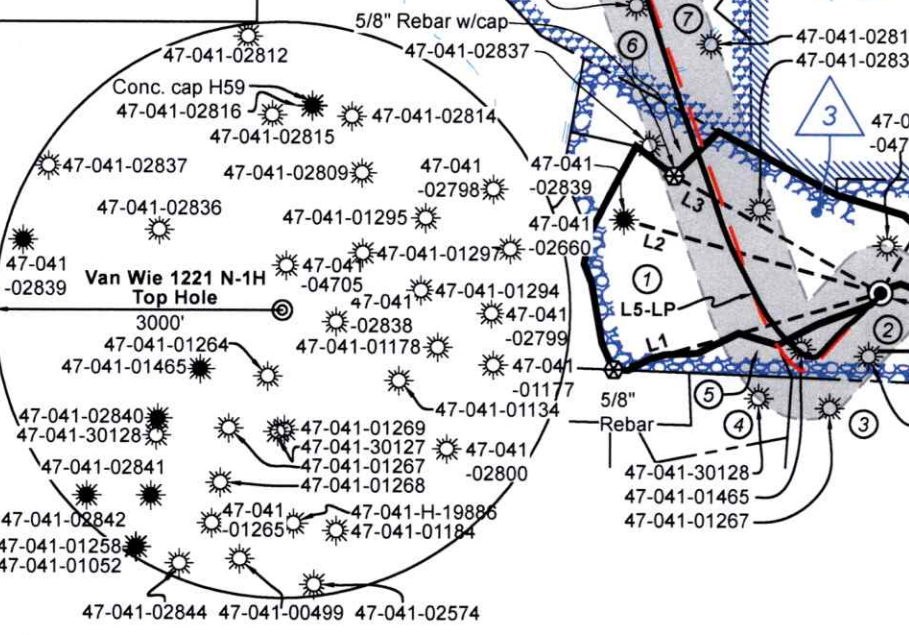
Page 1 of 2



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070

Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegany Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.



Note: 0 water wells, 0 cistern, and 0 pond were found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

Tag	Bearing	Dist.	Description
L1	N 73°41' E	2,892.9'	5/8" Iron rebar
L2	S 74°16' E	2,779.7'	47-041-02839
L3	S 60°47' E	2,468.2'	5/8" Iron rebar
L4	S 30°25' W	1,688.7'	47-041-02809

FILE NO: 63-12-FC-26
DRAWING NO: Van Wie 1221 N-1H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

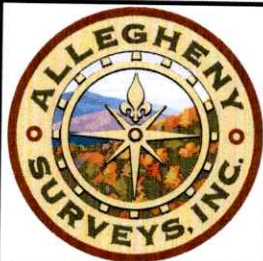
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: July 15 20 26
OPERATOR'S WELL NO. Van Wie 1221 N-1H
API WELL NO
47 — 041 — 05760
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 QUADRANGLE: Vadis
DISTRICT: Freemans Creek COUNTY: **07/19/2026**
SURFACE OWNER: HG Energy II Appalachia, LLC, et al ACREAGE: 131.85
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: 7,120' TVD
19,493' 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

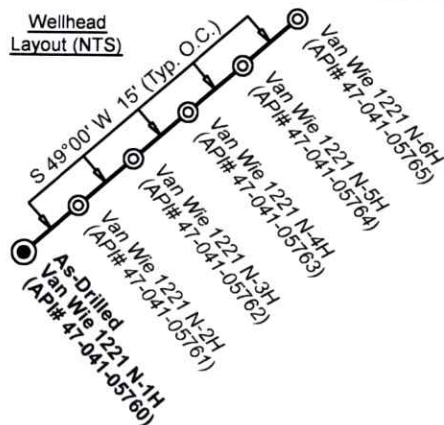


ID	Lease
3	Joseph Krenn, et ux
4	HG Energy II Appalachia, LLC
5	John Tierney
6	Glenn G. Rastle, et ux, et al
7	William E. Ruppert, et al
8	Frona Schmidt, et vir
9	James A. Shaver, et ux
10	Fonce Brown & Rita Brown
11	Glenn G. Schmidt, et ux, et al

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 / 31	Anthony S. & Dawn H. VanWie	732 / 622	73.10
4	2D / 26	M.P. & D.M. Davidovich, et al	539 / 131	22.50
5	2D / 28	Michael D. & Cheryl K. Casey	539 / 131	9.75
6	2D / 3.2	Jim C. Hamer Co.	530 / 378	20.00
7	2D / 48	John M. Keely, et al	541 / 127	81.00
8	2C / 7	James R. & Shelia A. Gum, II	721 / 350	350.78
9	2C / 4	Susanne Seccurro	725 / 199	111.75
10	2C / 3	Stephen Ruppert	666 / 428	102.46
11	2C / 2	Clarence D. Brown	W4 / 572	96.50
12	2C / 5	John M. Keely, et al	537 / 127	135.00
Doddridge Co. (Cove Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
13	10 / 19	Marilyn Barns & Carolyn Bass	W28 / 52	175.00
14	10 / 18	Thomas E. & Anna S. Doak	281 / 631	64.29
15	10 / 12	John & Barbara Mayer	330 / 248	30.28
16	10 / 10	Donald & Terri Riffe	294 / 37	48.92
17	10 / 12.1	John & Barbara Mayer	330 / 248	0.18
18	10 / 14	Clarence D. Brown	W20 / 306	180.00
19	10 / 6	John A. Schmidt	244 / 190	47.82

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:

Well No. Van Wie Unit
1221 N-1H
As-Drilled POE Coordinates
WV Coordinate System
of 1927, South Zone
N: 762,971.46'
E: 2,092,735.91'
Latitude: 39°05'41.14"
Longitude: 80°40'23.85"
UTM Zone 17, NAD 1983
N: 4,327,353.242m
E: 528,267.978m

Notes

West Virginia Coordinate System
of 1927, South Zone
based upon Differential GPS Measurements.
Well No. Van Wie Unit 1221 N-1H
Top Hole coordinates are
N: 762,973.21' Latitude: 39°05'41.11"
E: 2,094,050.92' Longitude: 80°40'07.17"
Bottom Hole coordinates are
N: 774,024.46' Latitude: 39°07'30.52"
E: 2,088,821.29' Longitude: 80°41'13.02"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,327,353.813m N: 4,330,720.575m
E: 528,668.590m E: 527,075.037m
Plat orientation and corner and well references
are based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

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MINIMUM DEGREE OF ACCURACY:
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