

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

AUG 14 2025

WV Department of
Environmental Protection

API 47 - 103 - 03676 County Wetzel District Green
Quad Pine Grove 7.5' Pad Name Lincoln Field/Pool Name ----
Farm name Antero Midstream, LLC Well Number Bassett Unit 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 522345.563m Easting 4374407.666m
Landing Point of Curve Northing 522264.23m Easting 43743378.26m
Bottom Hole Northing 523083.006m Easting 4371993.958m

Elevation (ft) 1260' 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 8/29/2024 Date drilling commenced 11/4/2024 Date drilling ceased 12/24/2025
Date completion activities began 1/30/2025 Date completion activities ceased 3/6/2025
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 387' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2308' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1003' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

03/13/2026

API 47-103 - 03676

Farm name Antero Midstream, LLC

Well number Bassett Unit 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	28"	20"	125.5'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	502'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3550'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	15852'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7127'		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	190 sx	15.6	1.18	224	0'	8 Hrs.
Surface	Class A	439 sx	15.6	1.19	522	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1210 sx	15.6	1.18	1428	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class G	2348 sx (Tail)	13.5 (Spacer), 15.2 (Tail)	1.26 (Tail)	2958	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15,852' MD, 7,097' TVD (BHL), 7,103' TVD (Deepest Point Drilled)

Loggers TD (ft) 15,822' MD

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

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Kick off depth (ft) 6,326'

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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

03/13/2026

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Farm name Antero Midstream, LLC

Well number Bassett Unit 1H

PRODUCING FORMATION(S)

DEPTHS

Marcellus 7,042' (TOP) TVD 7,354' (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 _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 15,007.90 mcfpd Oil 276.79 bpd NGL _____ bpd Water 834.53 bpd
GAS MEASURED BY Estimated Orifice Pilot

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

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Slumberger
Address 3600 Briarpark Dr. City Houston State TX Zip 77042

Stimulating Company Halliburton
Address 3000 N Sam Houston Pkwy E. City Houston State TX Zip 77032

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature *Stefan Gaspar* Title Permitting Agent Date 8/13/2025

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

03/13/2026

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	1/30/2025	15796	15781	36	Marcellus
2	1/31/2025	15742.65873	15577.9524	36	Marcellus
3	2/1/2025	15542.61111	15377.9048	36	Marcellus
4	2/2/2025	15342.56349	15177.8571	36	Marcellus
5	2/2/2025	15142.51587	14977.8095	36	Marcellus
6	2/2/2025	14942.46825	14777.7619	36	Marcellus
7	2/3/2025	14742.42063	14577.7143	36	Marcellus
8	2/3/2025	14542.37302	14377.6667	36	Marcellus
9	2/4/2025	14342.3254	14177.619	36	Marcellus
10	2/4/2025	14142.27778	13977.5714	36	Marcellus
11	2/5/2025	13942.23016	13777.5238	36	Marcellus
12	2/6/2025	13742.18254	13577.4762	36	Marcellus
13	2/6/2025	13542.13492	13377.4286	36	Marcellus
14	2/7/2025	13342.0873	13177.381	36	Marcellus
15	2/7/2025	13142.03968	12977.3333	36	Marcellus
16	2/8/2025	12941.99206	12777.2857	36	Marcellus
17	2/8/2025	12741.94444	12577.2381	36	Marcellus
18	2/8/2025	12541.89683	12377.1905	36	Marcellus
19	2/9/2025	12341.84921	12177.1429	36	Marcellus
20	2/9/2025	12141.80159	11977.0952	36	Marcellus
21	2/9/2025	11941.75397	11777.0476	36	Marcellus
22	2/10/2025	11741.70635	11577	36	Marcellus
23	2/10/2025	11541.65873	11376.9524	36	Marcellus
24	2/11/2025	11341.61111	11176.9048	36	Marcellus
25	2/12/2025	11141.56349	10976.8571	36	Marcellus
26	2/12/2025	10941.51587	10776.8095	36	Marcellus
27	2/13/2025	10741.46825	10576.7619	36	Marcellus
28	2/13/2025	10541.42063	10376.7143	36	Marcellus
29	2/13/2025	10341.37302	10176.6667	36	Marcellus
30	2/13/2025	10141.3254	9976.61905	36	Marcellus
31	2/14/2025	9941.277778	9776.57143	36	Marcellus
32	2/14/2025	9741.230159	9576.52381	36	Marcellus
33	2/14/2025	9541.18254	9376.47619	36	Marcellus
34	2/14/2025	9341.134921	9176.42857	36	Marcellus
35	2/15/2025	9141.087302	8976.38095	36	Marcellus
36	2/15/2025	8941.039683	8776.33333	36	Marcellus
37	2/15/2025	8740.992063	8576.28571	36	Marcellus
38	2/15/2025	8540.944444	8376.2381	36	Marcellus
39	2/16/2025	8340.896825	8176.19048	36	Marcellus
40	2/16/2025	8140.849206	7976.14286	36	Marcellus
41	2/16/2025	7940.801587	7776.09524	36	Marcellus
42	2/16/2025	7740.753968	7576.04762	36	Marcellus
43	2/16/2025	7540.706349	7376	36	Marcellus

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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	1/30/2025	86.08763	9786.754	8379.27	3927	122500	4509.5714	N/A
2	1/31/2025	95.18776	9779.433	7389.73	3970	414820	7424.6667	N/A
3	2/1/2025	96.53854	9766.559	6805.39	4082	394660	7229.9524	N/A
4	2/2/2025	97.42706	9478.448	6779.34	3975	397910	7069.5238	N/A
5	2/2/2025	96.3616	9845.716	7141.71	4294	414880	7290.8571	N/A
6	2/2/2025	96.11855	9589.299	7717.8	4385	369740	6661.3095	N/A
7	2/3/2025	94.64976	9585.815	6791.82	4156	411780	6851.4048	N/A
8	2/3/2025	96.71254	9597.768	6898.8	4418	396210	6899.2381	N/A
9	2/4/2025	95.53029	9791.312	7018.53	4255	412640	6953.0952	N/A
10	2/4/2025	96.98531	9623.76	6485.4	4116	395150	6758.1429	N/A
11	2/5/2025	95.87654	9384.653	6627.07	4111	402140	6718.4524	N/A
12	2/6/2025	96.57827	9176.727	5191.35	4485	407740	6935.3333	N/A
13	2/6/2025	98.11374	9619.543	6953.35	4328	414080	6815.2143	N/A
14	2/7/2025	94.0576	9267.091	6801.01	4351	397490	6776.6429	N/A
15	2/7/2025	95.60142	8814.375	6405.81	4397	391910	6771.119	N/A
16	2/8/2025	96.25814	9383.319	6592.55	4441	400770	6670.2857	N/A
17	2/8/2025	98.76279	8963.118	6198.76	4250	411060	6840.4524	N/A
18	2/8/2025	97.96531	9438.738	6350.24	4420	390120	6581.3571	N/A
19	2/9/2025	96.88871	8929.999	6423.08	4321	412860	6847.7143	N/A
20	2/9/2025	98.89804	8871.803	6314.82	4331	412640	6835.8571	N/A
21	2/9/2025	95.78907	9077.836	7935.54	4351	396280	6903.5714	N/A
22	2/10/2025	98.06199	9089.522	7264	3686.261	417360	6871.1905	N/A
23	2/10/2025	98.76505	8975.731	7502.28	3730.517	421660	6840.1667	N/A
24	2/11/2025	96.09996	8712.827	7577.02	4452	396960	6738.7857	N/A
25	2/12/2025	98.47905	8935.87	6337.37	6370.748	418130	6967.0714	N/A
26	2/12/2025	96.41788	8737.673	6500.36	4817.435	398630	6919.5952	N/A
27	2/13/2025	96.23042	8698.634	5981.23	4404.465	395160	6867	N/A
28	2/13/2025	98.33625	8677.832	6140	4721.696	415220	7104.0714	N/A
29	2/13/2025	98.57672	8658.096	6361.54	4229	399380	7273.6667	N/A
30	2/13/2025	96.7872	8823.837	6747.3	4281.857	393630	6755.881	N/A
31	2/14/2025	97.70364	8114.659	5994.97	4299.615	415400	6729.7857	N/A
32	2/14/2025	100.7682	8281.512	5819.97	4245.096	415580	6644.4286	N/A
33	2/14/2025	99.37488	8000.768	6189.2	5142.018	396060	6631.5238	N/A
34	2/14/2025	97.43556	7927.335	6747.26	3660.062	395560	6438.5	N/A
35	2/15/2025	98.13213	7836.9	5913.78	4134	398030	6447.7857	N/A
36	2/15/2025	98.68781	8110.604	6166.83	4420	396720	6571.2381	N/A
37	2/15/2025	99.40745	7758.447	5831.65	4208	414200	6575.7857	N/A
38	2/15/2025	98.76714	7777.294	6572.8	3726.307	412820	6637.7619	N/A
39	2/16/2025	97.92068	7542.196	6201.59	5088.575	398050	6640.1905	N/A
40	2/16/2025	98.83685	7738.428	6905.81	5256.253	419400	6710.5	N/A
41	2/16/2025	98.28261	7598.419	6508.85	4253	398970	6587.7143	N/A
42	2/16/2025	97.77458	7669.745	6443.27	4181.571	400340	6678.9524	N/A
43	2/16/2025	98.00195	7586.108	6831.59	3748.862	394040	6613.6429	N/A
	AVERAGE	97.1	8,815	6,645	4,335	17,078,680	290,589	0

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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	474	624	474	624
Sandstone, scat MICA	624	774	624	774
Sandstone	774	1,224	774	1,224
Limestone, rr SS, tr coal	924	1,274	924	1,274
Sandstone, tr LS	1,224	1,274	1,224	1,274
Sandy Siltstone, tr LS	1,274	1,374	1,274	1,374
Silty Sandstone, tr Coal	1,374	1,474	1,374	1,474
Sandstone, rr SLTST	1,474	1,574	1,474	1,574
Silty Sandstone, occ Coal	1,574	1,674	1,574	1,674
Sandstone, com SLTST, tr mica	1,674	1,774	1,674	1,774
Sandstone, occ SLTST	1,774	1,924	1,774	1,924
Silty Sandstone	1,924	2,024	1,924	2,024
Silty Sandstone, tr Coal	2,024	2,074	2,024	2,074
Siltstone	2,074	2,124	2,074	2,124
Siltstone, tr LS	2,124	2,136	2,124	2,150
Big Lime	2,162	2,940	2,150	2,961
Fifty Foot Sandstone	2,940	3,028	2,935	3,050
Gordon	3,028	3,272	3,024	3,297
Fifth Sandstone	3,272	3,620	3,271	3,646
Bayard	3,620	4,091	3,620	4,124
Speechley	4,091	4,235	4,098	4,270
Balltown	4,235	4,720	4,244	4,760
Bradford	4,720	5,253	4,734	5,299
Benson	5,253	5,675	5,273	5,725
Alexander	5,675	6,832	5,699	6,933
Sycamore	6,678	6,806	6,751	6,907
Middlesex	6,806	6,911	6,907	7,065
Burkett	6,911	6,941	7,065	7,124
Tully	6,941	7,016	7,124	7,328
Marcellus	7,016	NA	7,328	NA

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**Antero Resources
Well No. Bassett 1H
As-Drilled**
Antero Resources Corporation



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1 of 2

Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheeny 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.

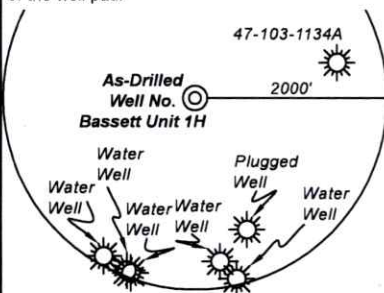
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
Bradley D. Miller, P.S. 2167



SEAL

Note: Five water wells were found within 2000' 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.

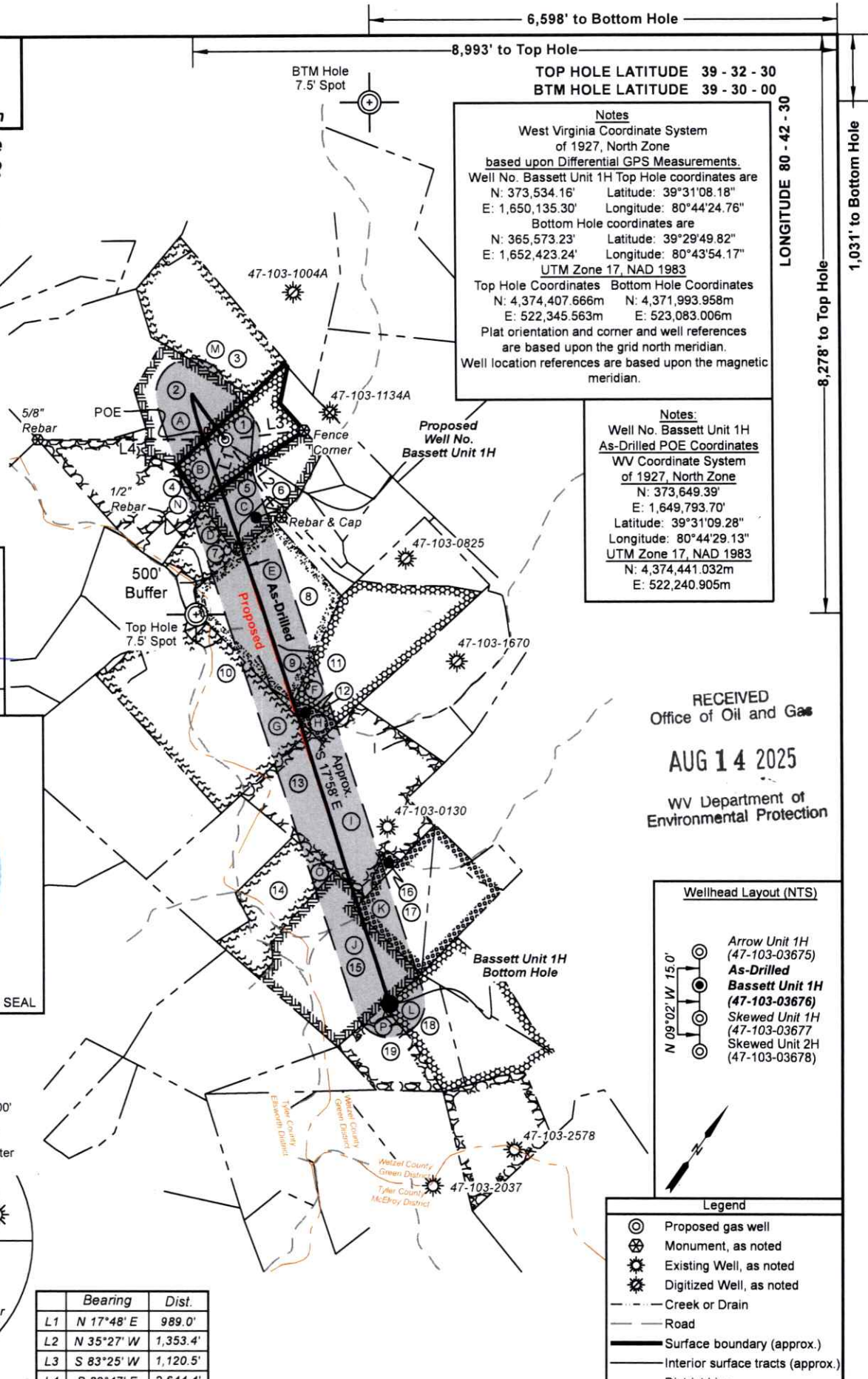


	Bearing	Dist.
L1	N 17°48' E	989.0'
L2	N 35°27' W	1,353.4'
L3	S 83°25' W	1,120.5'
L4	S 89°47' E	2,644.4'

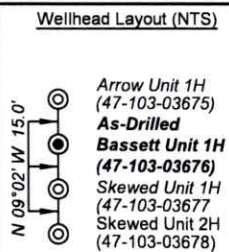
TOP HOLE LATITUDE 39 - 32 - 30
BTM HOLE LATITUDE 39 - 30 - 00

Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Bassett Unit 1H Top Hole coordinates are
N: 373,534.16' Longitude: 80°44'24.76"
E: 1,650,135.30'
Bottom Hole coordinates are
N: 365,573.23' Longitude: 80°43'54.17"
E: 1,652,423.24'
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,374,407.666m N: 4,371,993.958m
E: 522,345.563m E: 523,083.006m
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. Bassett Unit 1H As-Drilled POE Coordinates
WV Coordinate System of 1927, North Zone
N: 373,649.39'
E: 1,649,793.70'
Longitude: 80°44'29.13"
Latitude: 39°31'09.28"
UTM Zone 17, NAD 1983
N: 4,374,441.032m
E: 522,240.905m



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- Legend**
- ⊙ Proposed gas well
 - ⊗ Monument, as noted
 - ☼ Existing Well, as noted
 - ☼ Digitized Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - District Line

FILE NO: 09-34-G-24
DRAWING NO: Bassett 1H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: July 10 2025
OPERATOR'S WELL NO. Bassett 1H
API WELL NO
47 - 103 - 03676
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As-Built Elev. 1,260' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
DISTRICT: Green COUNTY: Wetzel
SURFACE OWNER: Antero Midstream, LLC ACREAGE: 33.25
ROYALTY OWNER: Melinda A. Debner LEASE NO: ACREAGE: 33.25
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,097' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,852' 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



Leases	
A	J.L. Lancaster
B	Melinda A. Debner
C	Blackrock Enterprises, LLC
D	Nancy K. Sayre
E	Patricia Lou Scheper
F	Shiben Estates, Inc.
G	A.J. McHenry & Maggie McHenry
H	Chesapeake Appalachia, LLC
I	J.W. Haught & A.B. Haught
J	AMP V, LP
K	Tribune Resources Minerals, LLC
L	Chesapeake Appalachia, LLC
M	Deborah A. Beaver
N	Acropolis, Inc.
O	Antero Minerals, LLC
P	Dominic J. Kowalski, et ux

ID	TM-Par	Owner	Bk/Pg	Acres
1	20-23	Antero Midstream, LLC	465/156	33.30
2	19-49	Antero Midstream, LLC	465/156	32.30
3	19-48	Antero Midstream, LLC	465/156	51.00
4	19-50	Ronald H. Eastham, et al	451/110	40.00
5	20-29	Antero Midstream, LLC	465/153	20.90
6	20-38	Antero Midstream, LLC	465/153	6.50
7	22-1	Antero Midstream, LLC	465/156	8.61
8	22-41	Robert L. Jr. & Donna K. Jones	462/717	71.29
9	22-12	Robert L. Jr. & Donna K. Jones	297/500	10.80
10	18-9	Courtney N. Vancamp	638/148	86.50
11	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
12	22-13	Timothy L. & Vicki L. Glasscock	370/425	4.10
13	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.89
14	18-6	Eric D. Beatty & Jack Gordon Straight	651/575	31.96
15	18-7	Thomas Straight, et al	270/558	68.00
16	22-24	Thomas & Shawn Pratt	429/66	2.00
17	22-21	Thomas & Shawn Pratt	429/66	25.85
18	22-32	Dominic Joseph & Delmer Michele Kowalski	353/533	20.30
19	25-1	Dominic Joseph & Delmer Michele Kowalski	353/533	60.00

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FILE NO: 09-34-G-24
 DRAWING NO: Bassett 1H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
Submeter
 PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV


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

DATE: July 10 2025
 OPERATOR'S WELL NO. Bassett 1H
API WELL NO
47 - 103 - 03676
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built Elev. 1,260' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove

DISTRICT: Green

COUNTY: Wetzel

SURFACE OWNER: Antero Minerals, LLC

ACREAGE: 33.25

ROYALTY OWNER: Melinda A. Debner

LEASE NO: _____ ACREAGE: 33.25

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,097' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,852' 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

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	01/30/2025
Job End Date:	02/16/2025
State:	West Virginia
County:	Wetzel
API Number:	47-103-03676-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	BASSETT UNIT 1H
Latitude:	39.519027
Longitude:	-80.740027
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7102
Total Base Water Volume (gal)*:	12514988
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

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WV Department of
Environmental Protection

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
Excelerate LX-21	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 28%	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 8.8)	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					

Items above are Trade Names. Items below are the individual ingredients.

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Handwritten initials or signature.

			Water	7732-18-5	100.00000	86.37891	None
			Crystalline silica, quartz	14808-60-7	100.00000	13.39520	None
			Water	7732-18-5	100.00000	0.20075	None
			Hydrochloric acid	7647-01-0	30.00000	0.05047	None
			Complex amine compound	Proprietary	60.00000	0.02657	None
			Hydrotreated distillate	Proprietary	30.00000	0.01328	None
			Guar gum	9000-30-0	100.00000	0.00454	None
			Glutaraldehyde	111-30-8	30.00000	0.00255	None
			Ammonium chloride	12125-02-9	5.00000	0.00221	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00221	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00221	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00044	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00044	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00042	None
			Methanol	67-56-1	100.00000	0.00025	None
			Ammonium persulfate	7727-54-0	100.00000	0.00010	None
			Citric acid	77-92-9	1.00000	0.00008	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	None
			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	None
			Propargyl alcohol	107-19-7	5.00000	0.00001	None
			Hexadecene	629-73-2	5.00000	0.00001	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	None
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	None

* 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%

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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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