west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Tuesday, July 21, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Jade Unit 1H
47-095-02966-00-00

Extended lateral

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

H. Jason Harmon
Chief

Operator's Well Number:	Jade Unit 1H
Farm Name:	Steve D. & Branda M Higgins
U.S. WELL NUMBER:	47-095-02966-00-00
Horizontal 6A	New Drill
Date Modification Issued:	7/21/2026

07/24/2026

WW-6B
(04/15)

API NO. 47- 095 - 02966
OPERATOR WELL NO. Jade Unit 1H MOD
Well Pad Name: Eller Pad

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator:	Antero Resources Corporat	494507062	095 - Tyler	Ellsworth	Porters Falls 7.5'
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: Jade Unit 1H MOD Well Pad Name: Eller Pad

3) Farm Name/Surface Owner: Steve D. & Brenda M. Higgins Public Road Access: Veterans Hwy

4) Elevation, current ground: 1274' Elevation, proposed post-construction: 1254'

5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow X Deep _____
Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7100' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7100' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22,350' MD

11) Proposed Horizontal Leg Length: 9,797'

12) Approximate Fresh Water Strata Depths: 400'

13) Method to Determine Fresh Water Depths: From 47095006850000

14) Approximate Saltwater Depths: 500'

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): Yes

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No X

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

RECEIVED
Office of Oil and Gas
JUL 13 2026
WV Department of
Environmental Protection

Digitally signed by Stephen Mccoy
Date: 2026.05.19 09:05:01 -04'00'
Stephen Mccoy 07/24/2026

WW-6B
(04/15)

API NO. 47- 095 - 02966
OPERATOR WELL NO. Jade Unit 1H MOD
Well Pad Name: Eller Pad

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	450'	450'	CTS, 469 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3400'	3400'	CTS, 1384 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	22350	22350'	4704 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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JUL 13 2026
WV Department of Environmental Protection

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

07/24/2026
Stephen Mccoy
Digitally signed by Stephen Mccoy
Date: 2026.05.19 09:04:51 -04'00'

WW-6B
(10/14)

API NO. 47- 095 - 02966
OPERATOR WELL NO. Jade Unit 1H MOD
Well Pad Name: Eller Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new vertical shallow well and complete Marcellus Shale.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 30.15 acres

22) Area to be disturbed for well pad only, less access road (acres): 18.51 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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WV Department of
Environmental Protection

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A/L cement.
Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake
Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

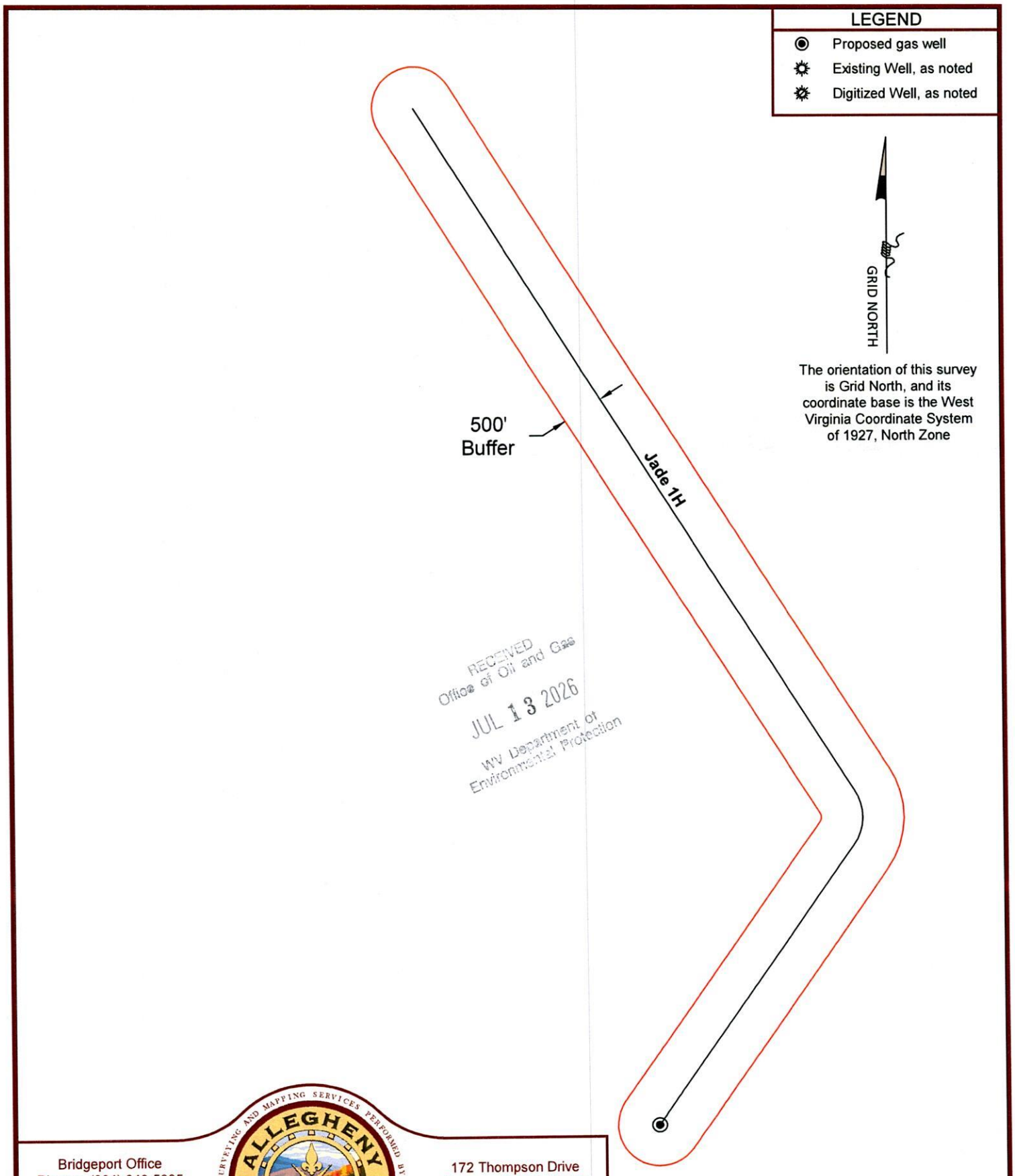
25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

07/24/2026

Digitally signed by Stephen McCoy
Date: 2026.05.19 09:04:38 -04'00'
Stephen McCoy



Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330

PARTY CHIEF:	C. Lynch	DRAWN BY:	C. Robinson
RESEARCH:	J. Miller	PREPARED:	May 20, 2026
SURVEYED:	Dec. 2016	PROJECT NO:	348-34-M-24
FIELD CREW:	C.L., K.M.	DRAWING NO:	Jade 1H BHL AOR

Sheet 1 of 1

07/24/2026

Antero Resources
Well No. Jade 1H
BHL_MOD
Antero Resources Corporation

11,334' to Top Hole

2,659' to Bottom Hole

TOP LATITUDE 39 - 37 - 30
BTM LATITUDE 39 - 37 - 30
TOP LONGITUDE 80 - 50 - 00
BTM LONGITUDE 80 - 52 - 30

2,074' to Bottom Hole

14,320' to Top Hole

Jade 1H Unit Bottom Hole

Detail A

Detail B

Bottom Hole 7.5' Spot

Top Hole 7.5' Spot

500' Buffer

500' Buffer

POE L5

Con. R/W Marker

Proposed Well No. Jade Unit 1H

Marked Stone

Marked Stone

5/8" Rebar w/ cap

Wetzel County

Tyler County

N 32°34' W 9,796.6'

N 56°18' E 15.0'

Legend

- Proposed gas well
- Found corner, as noted
- Existing Well, as noted
- Digitized Well
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- County Line (approx.)

Wellhead Layout (NTS)

- ***Proposed Well No.Jade Unit 1H (API#47-095-02966)***
- *Mullett Unit 2H (API#47-095-02969)*
- *Mullett Unit 1H (API#47-095-02968)*
- *Dutch Unit 2H (API#47-095-02965)*
- *Dutch Unit 1H (API#47-095-02964)*

Proposed Well No. Jade Unit 1H

2,000'

Note: No 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.

Notes:
Well No. Jade Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,375,208.68'
E: 1,676,043.49'
Point of Entry Coordinates
N: 14,379,283.11'
E: 1,678,369.22'
Bottom Hole Coordinates
N: 14,387,446.62'
E: 1,672,959.50'

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, P.S. 2167

BRADLEY D. MILLER LICENSED No. 2167 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

SEAL

Notes
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Jade Unit 1H Top Hole coordinates are
N: 398,388.99' Latitude: 39°35'08.47"
E: 1,612,894.69' Longitude: 80°52'24.78"
Bottom Hole coordinates are
N: 410,680.89' Latitude: 39°37'09.51"
E: 1,610,014.47' Longitude: 80°53'03.98"
UTM Zone 17, NAD 1983
Top Hole Coordinates N: 4,381,790.173m E: 510,873.838m
Bottom Hole Coordinates N: 4,385,520.315m E: 509,933.949m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Well Location References
Not To Scale
Stake & Tack
AZ95° 478'
Proposed Well No. Jade Unit 1H
Eller Pad
AZ327° 401'
Stake & Tack

	Bearing	Dist.
L1	N 39°22' W	4,218.3'
L2	N 26°12' E	2,348.6'
L3	N 58°45' E	2,762.6'
L4	S 44°52' E	4,617.4'
L5	N 30°40' E	4,693.1'

FILE NO: 348-34-M-24
DRAWING NO: Jade 1H Well Plat
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 8 2026
OPERATOR'S WELL NO. Jade 1H

API WELL NO
47 — 095 — 02966
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Proposed Elev: 1,254' Existing Elev: 1,274'
WATERSHED: Outlet Middle Island Creek
QUADRANGLE: Porters Falls
DISTRICT: Ellsworth
COUNTY: Tyler / Wetzel
SURFACE OWNER: Steven D. & Brenda M. Higgins
ACREAGE: 163.34
ROYALTY OWNER: Beverly Kay Campbell
LEASE NO: _____ ACREAGE: 164.28125
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG
TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,100' TVD 22,350' MD

07/24/2026

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

Detail A (1" = 400')



FILE NO: 348-34-M-24
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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 8 2026
OPERATOR'S WELL NO. Jade 1H

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STATE COUNTY PERMIT

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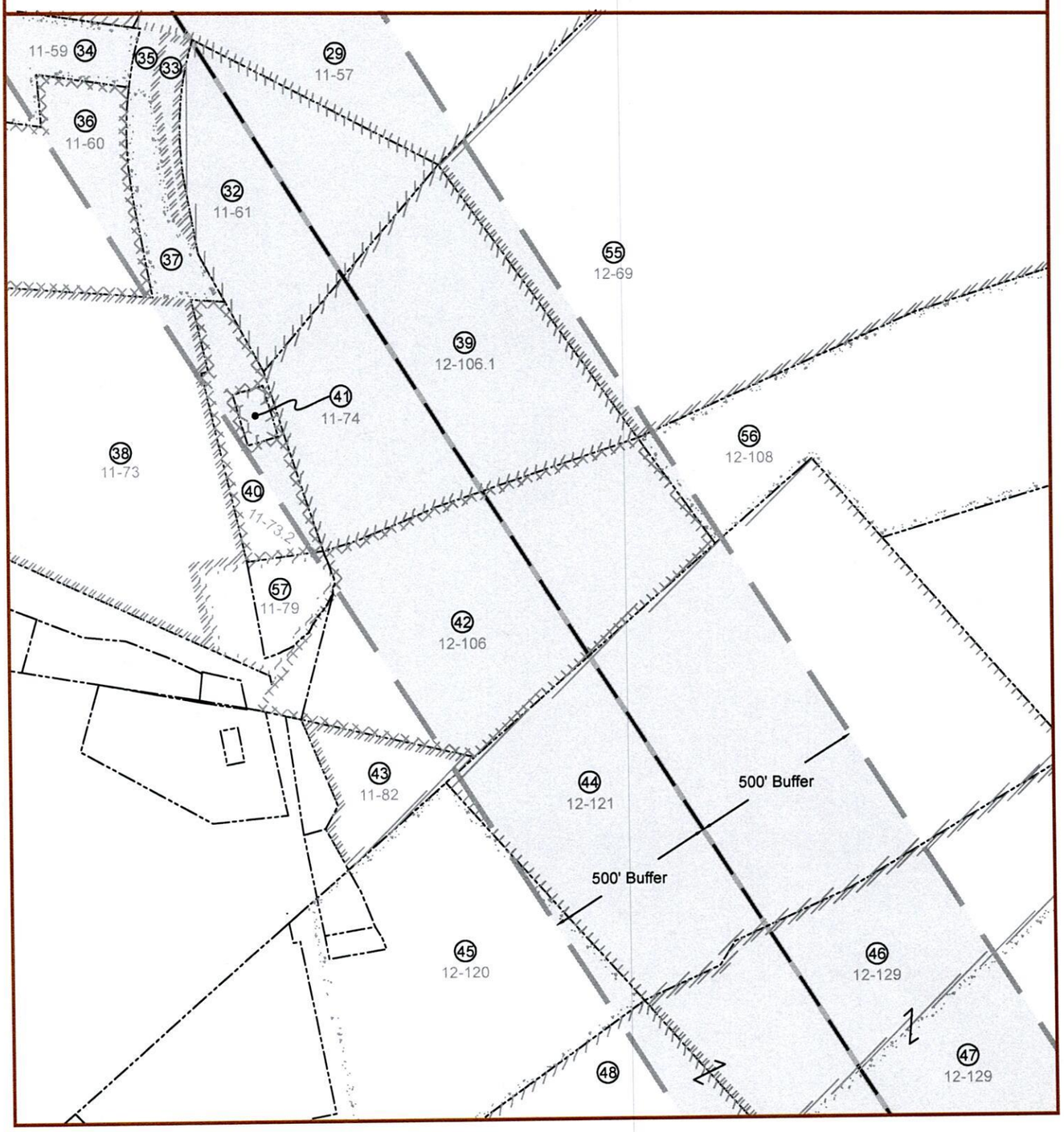
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QUADRANGLE: Porters Falls
DISTRICT: Ellsworth
COUNTY: Tyler / Wetzel
ACREAGE: 163.34
SURFACE OWNER: Steven D. & Brenda M. Higgins
ROYALTY OWNER: Beverly Kay Campbell LEASE NO: _____ ACREAGE: 164.28125
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,100' TVD 22,350' MD

07/24/2026

WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

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

Detail B (1" = 400')



FILE NO: 348-34-M-24
DRAWING NO: Jade 1H Well Plat
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 8 2026
OPERATOR'S WELL NO. Jade 1H
API WELL NO
47 — 095 — 02966
STATE COUNTY PERMIT

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07/24/2026

WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

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

Antero Resources
Well No. Jade 1H
BHL_MOD
Antero Resources Corporation

Leases	
Tract 1	WVDNR
Tract 2	Venable Royalty, Limited, et al
Tract 3	Mark M. Mullett
Tract 5	Venable Royalty, Limited, et al
Tract 6	Venable Royalty, Limited, et al
Tract 7	Venable Royalty, Limited, et al
Tract 11	JVO, LLC
Tract 12	JVO, LLC
Tract 13	Venable Royalty, Limited, et al
Tract 14	JVO, LLC
Tract 16	JVO, LLC
Tract 17	Venable Royalty, Limited, et al
Tract 18	Venable Royalty, Limited, et al
Tract 19	Venable Royalty, Limited, et al
Tract 20	Venable Royalty, Limited, et al
Tract 25	Venable Royalty, Limited, et al
Tract 26	Venable Royalty, Limited, et al
Tract 27	Venable Royalty, Limited, et al
Tract 28	Brenda Joy Cagie
Tract 29	Will E. Morris Heirs Trust
Tract 30	Will E. Morris Heirs Trust
Tract 31	Will E. Morris Heirs Trust
Tract 32	William H. Angus, Jr.
Tract 33	West Virginia Department of Transportation, Division of Highways
Tract 34	Mark M. Sands & Patricia A. Sands, H/W, JTWROS
Tract 35	West Virginia Department of Transportation, Division of Highways
Tract 36	Douglas E. McAdams & Barbara Diane McAdams, H/W, JTWROS
Tract 37	West Virginia Department of Transportation, Division of Highways
Tract 38	Clyde Bert Snider
Tract 39	Timothy R. Pennell & Tamera Pennell
Tract 40	Floyd E. Lewis, Jr.
Tract 41	Myra Hart
Tract 42	Margaret Sine
Tract 43	Amy L. Olson
Tract 44	Chesapeake Appalachia, LLC
Tract 45	Chesapeake Appalachia, LLC
Tract 46	Chesapeake Appalachia, LLC
Tract 47	M.B. Investments
Tract 48	Chesapeake Appalachia, LLC
Tract 49	BRC Appalachian Minerals I, LLC
Tract 50	Lackawanna Transportation Company
Tract 51	M.B. Investments
Tract 52	5 Star JV II
Tract 53	BRC Appalachian Minerals I, LLC
Tract 54	Antero Mineral, LLC
Tract 57	Rebecca S. Hunter
Tract 58	Matthew S. Cecil
Tract 59	Donald R. Reynolds
Tract 60	M.B. Investments, a West Virginia Partnership
Tract 61	M.B. Investments, a West Virginia Partnership
Tract 62	Ridgetop Royalties, LLC
Tract 63	Cider Run Mineral Holdings, LLC
Tract 64	Ridgetop Royalties, LLC
Tract 65	Michael Stillwagner
Tract 66	Robert D. Wetzel
Tract 67	Beverly Kay Campbel
Tract 68	David W. Miller, et al

TM - Par	Owner	Bk/Pg	Acres
Wetzel County			
11A-1	Amy J. Phillips	WB120/502	0.25
11A-2	Mark Douglass Partridge	474/464	0.22
11A-3	West Virginia Department of Highways	305/418	0.12
11A-4	West Virginia Department of Highways	294/119	0.57
11A-11	Randy W. & Nancy W. Higgins	427/891	0.21
11A-12	Donald P. & Christy McGinnis	392/156	0.21
11A-13	Eric L. & Tammy R. Waggoner	431/98	0.40
11A-14	Eric L. & Tammy R. Waggoner	431/98	0.26
11-17	Michael L. Mullett	403/60	12.00
11-18	Lisa Straight	A115/10	5.00
11-28	J&T Paving & Excavating Inc.	404/64	1.25
11-29	Aaron Wilson & Sandra Anderson	453/794	0.52
11-30	Aaron Wilson & Sandra Anderson	453/794	0.34
11-30.1	William J. Neff & Sharon L. Bice	368/178	1.31
11-31	Mark M. & Michael L. Mullett	507/763	0.71
11-32	Mark M. & Michael L. Mullett	507/763	0.92
11-37	West Virginia Department of Highways	WB31/228	5.30
11-38	Gregory L. & Shirley F. Michael	410/884	1.09
11-39	Belinda Nice Talkington	499/359	1.40
11-42	Alexander K. & Haley R. Anderson	511/914	5.00
11-57	Tex L. Morris	451/433	41.20
11-57.1	Velinda Phillips	238/390	0.48
11-57.2	Kevin James & Tonda Persinger	491/137	27.68
11-57.3	Alexander K. Haley R. Anderson	511/914	1.80
11-57.4	Velinda Phillips	286/491	0.61
11-57.5	Randall J. & Laura G. Carpenter	500/134	1.27
11-57.6	Richard A. DeMarco	477/729	0.42
11-57.7	Christine Ann DeMarco	479/457	0.42
11-58	Jared Kacor	511/449	1.65
11-59	Mark W. & Patricia S. Sands	344/387	8.74
11-60	Douglas E. & Barbara D. McAdams	475/297	19.89
11-61	Hunter B. & Doug McAdams	445/95	7.61
11-73	Gregory V. & Myra L. Hart	443/76	50.00
11-73.2	Floyd E. Lewis, Sr. & Floyd E. Lewis, Jr.	452/103	3.88
11-74	Lynnda Bridgeman, ETAL	WB69/785	0.31
11-79	Floyd E. Lewis, Sr. & Floyd E. Lewis, Jr.	452/103	0.67
11-82	Mary Elizabeth Clegg	WB59/474	3.24
12-69	M.B. Investments	352/398	73.37
12-106	Thomas C. Pennell	417/792	15.96
12-106.1	Timothy R. & Tamera D. Pennell	410/22	14.04
12-108	M.B. Investments	349/280	24.00
12-120	Mary Elizabeth Clegg	WB59/474	12.61
12-121	Mary Elizabeth Clegg	WB59/474	31.94
12-129	Mary Elizabeth Clegg	WB59/474	20.00
12-130	Lackawanna Transport Company	427/485	25.64
16-64	Richard Todd Kay	420/650	29.00
16-67	Robert D. Wetzel	404/372	82.06
17-2	M.B. Investments	347/402	74.00
17-6	Jerry W. & Delores Thompson	290/333	26.58
17-6.1	Jerry W. & Delores Thompson	302/649	0.75
17-6.3	Lackawanna Transport Company	454/223	4.13
17-7	Daniel & Amy Witschey Living Trust	494/578	21.38
17-7.1	Lackawanna Transport Company	427/485	21.37
17-10	M.B. Investments	334/56	20.84
17-10.1	Lackawanna Transport Company	427/485	13.00
17-12	M.B. Investments	334/56	8.00
17-13	M.B. Investments	334/56	40.26
17-14	Matthew S. Cecil	492/91	16.12
17-14.1	Darnell T. Dieterich	263/38	0.78
17-15	Daniel & Amy Witschey Living Trust	494/578	37.90
17-16	Matthew S. Cecil	492/91	3.00
17-17	Matthew S. Cecil	493/590	16.92
Tyler County			
1-11	Daniel & Amy Witschey Living Trust	OR194/224	122.81
1-16	Daniel & Amy Witschey Living Trust	OR194/224	20.00
3-9	Steven D. & Brenda M. Higgins	313/623	163.34

FILE NO: 348-34-M-24
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DISTRICT: Ellsworth COUNTY: Tyler / Wetzel
SURFACE OWNER: Steven D. & Brenda M. Higgins ACREAGE: 163.34
ROYALTY OWNER: Beverly Kay Campbell LEASE NO: _____ ACREAGE: 164.28125
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,100' TVD 22,350' MD

07/24/2026

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

WW-6A1

Operator's Well Number Jade Unit 1H MOD

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
67: Beverly Kay Campbell Lease **Beverly Kay Campbell**	**Antero Resources Corporation**	**1/8+**	**0012/0572**
65: Michael Stillwagner Lease Michael Stillwagner Stone Energy Corporation **EQT Production Company**	Stone Energy Corporation EQT Production Company **Antero Resources Corporation**	1/8 Assignment **Assignment**	0421/0168 0556/0132 **0662/0686**
64: Ridgetop Royalties, LLC Lease **Ridgetop Royalties, LLC**	**Antero Resources Corporation**	**1/8+**	**0175/0746**
63: Cider Run Mineral Holdings, LLC Lease **Cider Run Mineral Holdings, LLC**	**Antero Resources Corporation**	**1/8+**	**0177/0165**
61: M.B. Investments, a West Virginia Partnership Lease **M.B. Investments, a West Virginia Partnership**	**Antero Resources Corporation**	**1/8+**	**397A/0926**
59: Donald R. Reynolds Lease **Donald R. Reynolds**	**Antero Resources Corporation**	**1/8+**	**310A/0619**
58: Matthew S. Cecil Lease **Matthew S. Cecil**	**Antero Resources Corporation**	**1/8+**	**304A/0619**
54: Antero Minerals, LLC Lease **Antero Minerals, LLC**	**Antero Resources Corporation**	**1/8+**	**325A/0637**
52: 5 Star JV II Lease **5 Star JV II**	**Antero Resources Corporation**	**1/8+**	**453A/0810**
50: Lackawanna Transportation Company Lease Lackawanna Transportation Company TH Exploration, LLC **EQT TGHL Exploration LLC**	TH Exploration, LLC EQT TGHL Exploration LLC **Antero Resources Corporation**	1/8 Name Change **Assignment**	179A/0462 0154/0899 **463A/0197**
47: M.B. Investments Lease **M.B. Investments**	**Antero Resources Corporation**	**1/8+**	**451A/0573**
46: Chesapeake Appalachia, LLC Lease Chesapeake Appalachia, LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. EQT Production Company TH Exploration, LLC **EQT TGHL Exploration LLC**	Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. EQT Production Company TH Exploration, LLC EQT TGHL Exploration LLC **Antero Resources Corporation**	1/8+ Assignment Assignment Assignment Name Change **Assignment**	141A/0360 143A/0378 175A/0707 252A/0887 0154/0899 **463A/0197**

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Office of Oil and Gas
JUL 13 2026
WV Department of
Environmental Protection

07/24/2026

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
44: Chesapeake Appalachia, LLC Lease			
Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	1/8+	141A/0360
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc.	Assignment	143A/0378
Statoil USA Onshore Properties, Inc.	EQT Production Company	Assignment	175A/0707
EQT Production Company	TH Exploration, LLC	Assignment	252A/0887
TH Exploration, LLC	EQT TGHL Exploration LLC	Name Change	0154/0899
EQT TGHL Exploration LLC	**Antero Resources Corporation**	**Assignment**	**463A/0197**
42: Margaret Sine Lease			
Margaret Sine	**Antero Resources Corporation**	**1/8+**	**418A/0893**
39: Timothy R. Pennell & Tamera Pennell Lease			
Timothy R. Pennell & Tamera Pennell	**Antero Resources Corporation**	**1/8+**	**287A/0219**
32: William H. Angus, Jr. Lease			
William H. Angus, Jr.	**Antero Resources Corporation**	**1/8+**	**403A/0803**
33: West Virginia Department of Transportation, Division of Highways Lease			
West Virginia Department of Transportation, Division of Highways	**Antero Resources Corporation**	**1/8+**	**0357/0595**
29: Will E. Morris Heirs Trust Lease			
Will E. Morris Heirs Trust	**Antero Resources Corporation**	**1/8+**	**422A/0037**
30: Will E. Morris Heirs Trust Lease			
Will E. Morris Heirs Trust	**Antero Resources Corporation**	**1/8+**	**422A/0037**
25: Venable Royalty, Limited, et al Lease			
Venable Royalty, Limited, et al	**Antero Resources Corporation**	**1/8+**	**409A/0269**
27: Venable Royalty, Limited, et al Lease			
Venable Royalty, Limited, et al	**Antero Resources Corporation**	**1/8+**	**409A/0269**
17: Venable Royalty, Limited, et al Lease			
Venable Royalty, Limited, et al	**Antero Resources Corporation**	**1/8+**	**409A/0269**
3: Mark M. Mullett Lease			
Mark M. Mullett	**Antero Resources Corporation**	**1/8+**	**424A/0877**

07/24/2026

WW-6A1
(5/13)

Operator's Well No. Jade Unit 1H MOD

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
1: WVDNR Lease				
	WVDNR	Antero Resources Corporation	1/8+	441A/0406

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with the development of certain royalty owners' interests in this tract.

**Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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Office of Oil and Gas
JUL 13 2026
WV Department of
Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation
By: Tim Rady
Its: Senior Vice President of Land

07/24/2026