



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 1, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

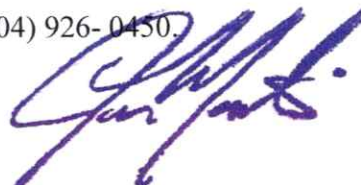
Re: Permit Modification Approval for Grey Unit 2H
47-095-02935-00-00

Lateral Extension

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.



James A. Martin
Chief

Operator's Well Number: Grey Unit 2H
Farm Name: Robert F & Rita K Scardina
U.S. WELL NUMBER: 47-095-02935-00-00
Horizontal 6A New Drill
Date Modification Issued: 07/01/2025

Promoting a healthy environment.

07/04/2025

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#	514	514 ✓	CTS, 536 Cu. Ft. ✓
Coal	9-5/8"	New	J-55	36#	2500	2500 ✓	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	19700	19700 ✓	4036 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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-HIPOZ & 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			

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

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

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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): 35.27 acres

22) Area to be disturbed for well pad only, less access road (acres): 14.87 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.

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.

CK# 4041960
\$ 7500

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

1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Lincoln Paden City
Operator ID County District Quadrangle

2) Operator's Well Number: Grey Unit 2H MOD Well Pad Name: Starkey Pad

3) Farm Name/Surface Owner: Robert F. Scardina & Rita K. Scardina Public Road Access: Hamilton Drive

4) Elevation, current ground: 1092' Elevation, proposed post-construction: _____

5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19700' MD

11) Proposed Horizontal Leg Length: 10940.4'

12) Approximate Fresh Water Strata Depths: 464

13) Method to Determine Fresh Water Depths: 47-095-00275

14) Approximate Saltwater Depths: 1522

15) Approximate Coal Seam Depths: None

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

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: _____

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UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095007770000	JUDGE RALPH ET AL	1	PIN OAK OPERATING LLC	CARTER JONES LUMBER	2,920	2693 - 2727	Fifth	Weir, Benson, Alexander
47095006780000	KIMBLE MILDRED	TUTTLE-1	PIN OAK OPERATING LLC	CARTER JONES LUMBER	4,000			

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LEGEND

- Proposed gas well
- ⊗ Existing Well, as noted
- ⊗ Digitized Well, as noted

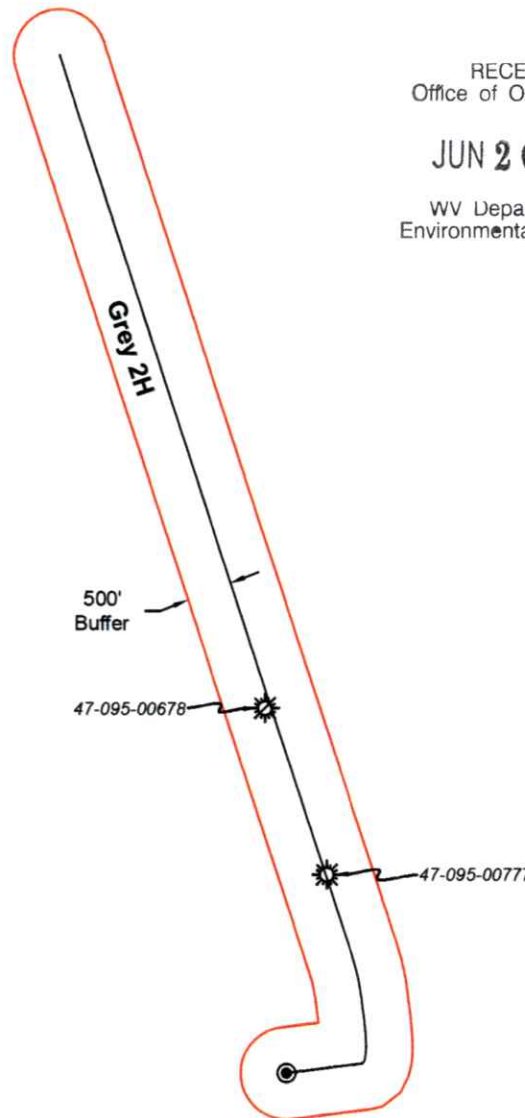
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The orientation of this survey
is Grid North, and its
coordinate base is the West
Virginia Coordinate System
of 1927, North Zone



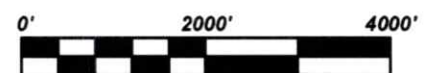
Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330



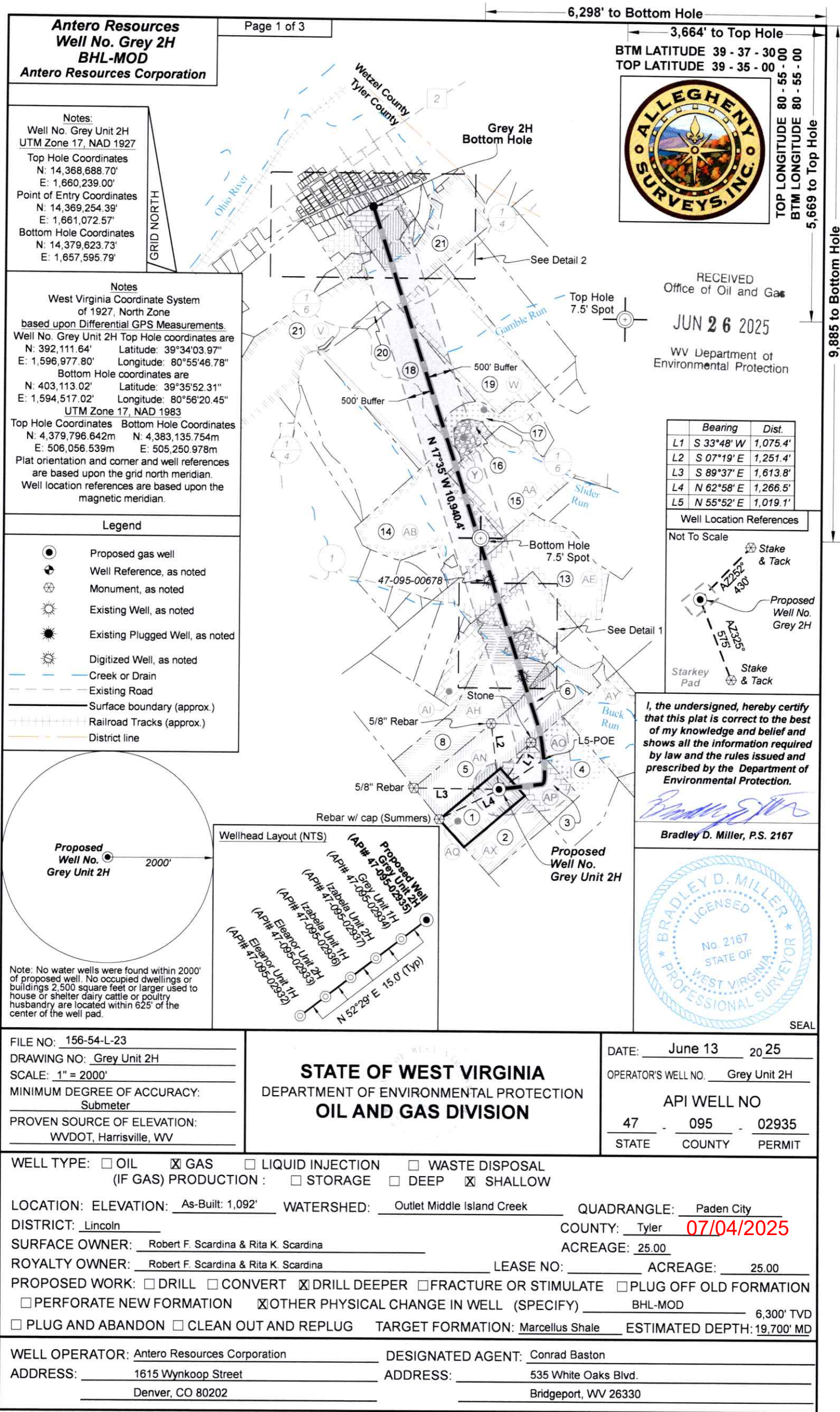
PARTY CHIEF: C. Lynch	DRAWN BY: C. Robinson
RESEARCH: J. Miller	PREPARED: June 13, 2025
SURVEYED: Dec. 2016	PROJECT NO: 156-54-L-23
FIELD CREW: C.L., K.M.	DRAWING NO: Grey 2H AOR

Sheet 1 of 1



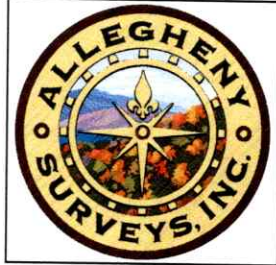
Scale: 1 inch = 2000 feet

07/04/2025



Antero Resources
Well No. Grey 2H
BHL-MOD
Antero Resources Corporation

6,298' to Bottom Hole
3,664' to Top Hole
BTM LATITUDE 39 - 37 - 30.00
TOP LATITUDE 39 - 35 - 00



TOP LONGITUDE 80 - 55 - 00
BTM LONGITUDE 80 - 55 - 00
5,669' to Top Hole
9,885' to Bottom Hole

Notes:
Well No. Grey Unit 2H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,368,688.70'
E: 1,660,239.00'
Point of Entry Coordinates
N: 14,369,254.39'
E: 1,661,072.57'
Bottom Hole Coordinates
N: 14,379,623.73'
E: 1,657,595.79'

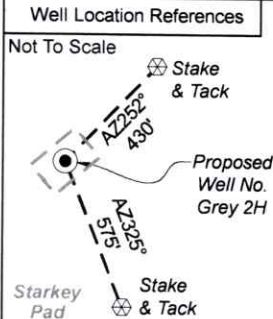
Notes
West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Grey Unit 2H Top Hole coordinates are
N: 392,111.64' Latitude: 39°34'03.97"
E: 1,596,977.80' Longitude: 80°55'46.78"
Bottom Hole coordinates are
N: 403,113.02' Latitude: 39°35'52.31"
E: 1,594,517.02' Longitude: 80°56'20.45"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,379,796.642m N: 4,383,135.754m
E: 506,056.539m E: 505,250.978m
Plat orientation and corner and well references
are based upon the grid north meridian.
Well location references are based upon the
magnetic meridian.

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.)
- Railroad Tracks (approx.)
- District line

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Bearing	Dist.
L1 S 33°48' W	1,075.4'
L2 S 07°19' E	1,251.4'
L3 S 89°37' E	1,613.8'
L4 N 62°58' E	1,266.5'
L5 N 55°52' E	1,019.1'



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



SEAL

FILE NO: 156-54-L-23
DRAWING NO: Grey Unit 2H
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

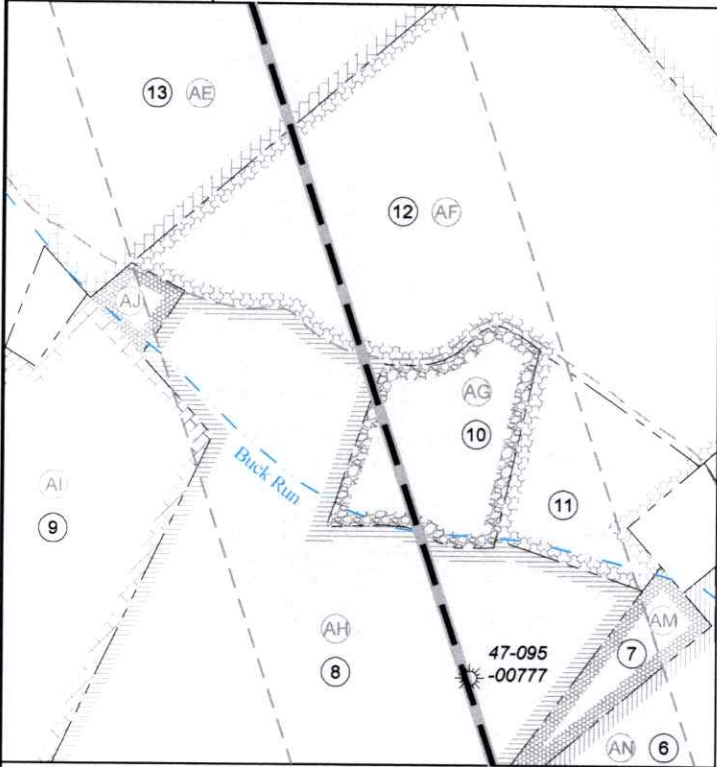
DATE: June 13 2025
OPERATOR'S WELL NO. Grey Unit 2H
API WELL NO
47 - 095 - 02935
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: As-Built: 1,092' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
DISTRICT: Lincoln COUNTY: Tyler 07/04/2025
SURFACE OWNER: Robert F. Scardina & Rita K. Scardina ACREAGE: 25.00
ROYALTY OWNER: Robert F. Scardina & Rita K. Scardina LEASE NO: ACREAGE: 25.00
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD 6,300' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,700' 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



Detail 1 (1"=500')

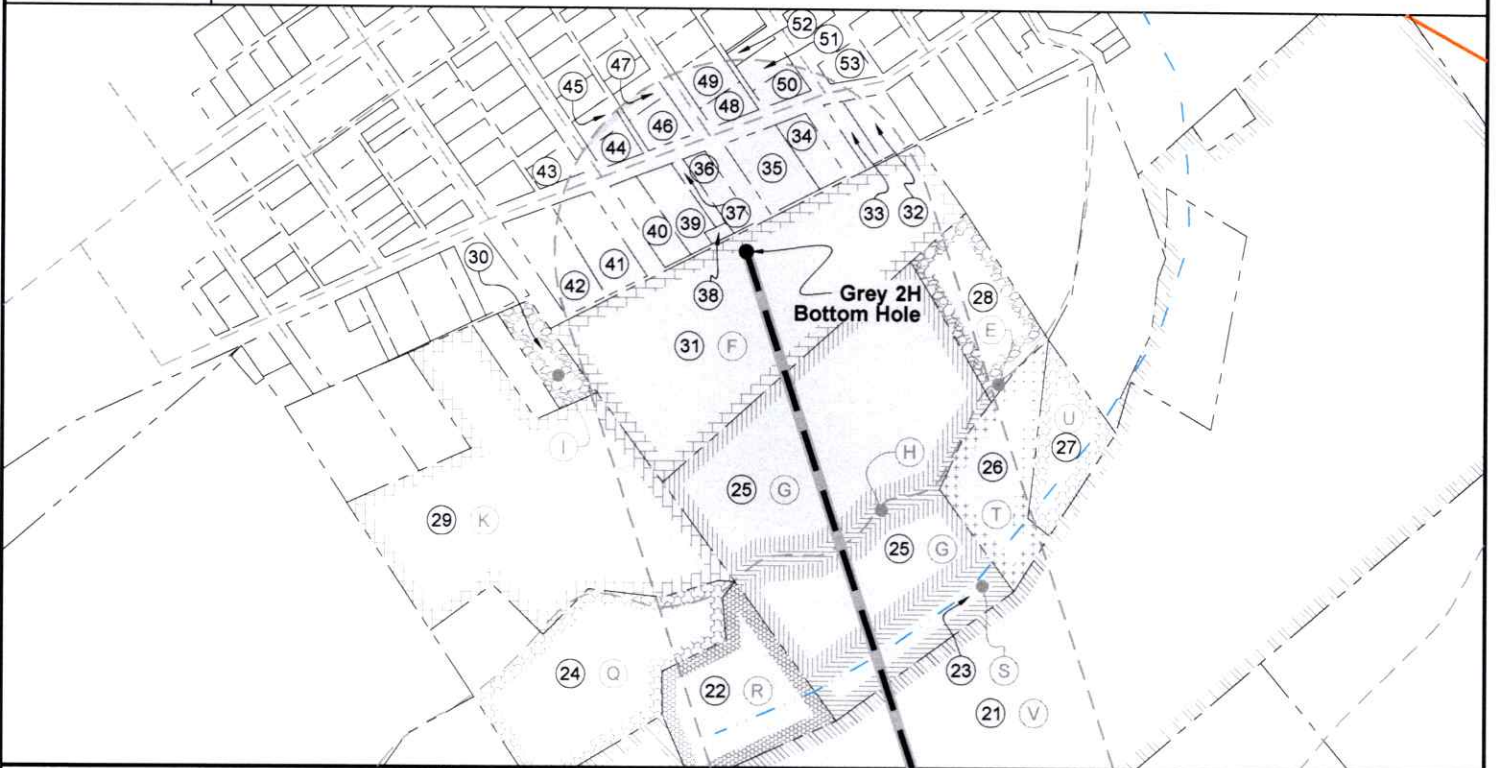


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Detail 2 (1"=500')



FILE NO: 156-54-L-23

DRAWING NO: Grey Unit 2H

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: June 13 2025

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COUNTY: Tyler 07/04/2025

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ACREAGE: 25.00

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LEASE NO: ACREAGE: 25.00

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DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street

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Denver, CO 80202

Bridgeport, WV 26330



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	Lease
Tract E	The West Virginia Department of Transportation, Division of Highways
Tract F	Timothy O. Brown
Tract G	Sandra Casteel
Tract H	The West Virginia Department of Transportation, Division of Highways
Tract I	Dyeann Lemley, Life Estate & Dail Monica Sorsby, as Remainderman
Tract K	Eric Scott Hayes & Tiffany Hayes, hw
Tract Q	Charles M. Hayes & Rebecca S. Hayes , JTWROS
Tract R	Jason Welby Snider & Lindsay Shay Snider, hw
Tract S	Ashley D. Efaw
Tract T	Robert Edward Lewis
Tract U	Lee & Hall Royalties a West Virginia Foreign General Partnership
Tract V	Henry P. Snyder, et al
Tract W	Gary Holmes & Marsha L. Holmes
Tract X	BRC Appalachian Minerals I LLC
Tract Y	Clifton C. Lough & Allyson B Lough
Tract AA	Brandon P. Mason & Katie E. Mason, JTROS
Tract AB	Richard Tuttle, et ux
Tract AE	Richard & Linda Tuttle, h/w JTWROS
Tract AF	Edward L. Midcap
Tract AG	Warren P. Judge
Tract AH	Ralph & Sophia Judge
Tract AI	Bounty Minerals, LLC.
Tract AJ	Bounty Minerals, LLC.
Tract AM	Cindy J. Cusmano
Tract AN	AMP IV, LP
Tract AO	Robert F. Scardina & Rita K. Scardina, h/w
Tract AP	Robert F. Scardina & Rita K. Scardina, h/w
Tract AQ	Robert F. Scardina & Rita K. Scardina, h/w
Tract AX	Robert F. & Rita K. Scardina
Tract AY	Jane Ann Miller

Tyler County				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5 / 11	Robert F. & Rita K. Scardina	320 / 646	25.00
2	5 / 10	Robert F. & Rita K. Scardina	320 / 646	25.00
3	5 / 12	Robert F. & Rita K. Scardina	320 / 646	25.00
4	5 / 13	Robert F. & Rita K. Scardina	320 / 646	46.00
5	5 / 9.4	Neil R. Stebbins	366 / 436	51.48
6	5 / 9	Sally Anderson (L/E)	368 / 92	25.89
7	5 / 6	Stephen D. & Pamela L. Hayes	368 / 92	2.11
8	5 / 4	Ralph D. & Sophia Judge	306 / 681	60.77
9	5 / 2	Brian Clegg	OR2 / 648	19.44
10	5 / 3	Warren P. Judge	345 / 89	4.10
11	5 / 5	Ralph D. & Sophia V. Judge	212 / 572	3.58
12	5 / 2.1	John Goode	OR28 / 720	27.52
13	5 / 1	Richard L. & Linda Tuttle	362 / 43	88.00
14	4 / 69	Richard L. & Linda Tuttle	362 / 43	87.48
15	5 / 36	Brandon P. & Katie E. Mason	396 / 464	56.87
16	4 / 68	Clifton C. & Allyson B. Lough	354 / 569	9.00
17	5 / 37	Clegg Family Irrevocable Trust	369 / 576	19.80
18	1 / 7	Alice M. Bungard	270 / 220	86.83
19	1 / 8	Gary & Marsha L. Holmes	372 / 325	95.40
20	1 / 7.1	Alice M. Bungard	320 / 603	3.25
21	1 / 21	Stanley E. & Edith L. Dennis	350 / 414	77.71
22	1 / 10	Jason W. & Lindsay S. Snider	381 / 517	3.00
23	1 / 9	Anna & Ashley Efaw	OR80 / 548	2.27
24	1 / 6	Charles M. & Rebecca Hayes	272 / 262	3.62
25	1 / 15	G.R. & Patti R. Casteel	412 / 395	11.44
26	1 / 11.1	Lloyd Lewis & Edward Robert	256 / 596	2.00
27	1 / 11	Mary M. & Lloyd Lewis, Sr.	285 / 447	1.35
28	1 / 14	Glen R. & Patti R. Casteel (L/E)	412 / 398	2.16
29	1 / 18	Eric S. & Tiffany Hayes	404 / 302	8.63
30	1 / 17	Richard L. Wright, et al	FR7 / 115	0.50
31	1 / 16	Robert D. Wetzel	OR59 / 298	8.69
32	4 / 116	Volusia Ventures, LLC	OR10 / 409	0.46
33	4 / 115.1	Zachary A. Casto	180 / 238	0.22
34	4 / 115	Zachary A. Casto	180 / 238	0.34
35	4 / 114	Alenander T. Booher	OR22 / 102	0.67
36	4 / 113	Donald R. Chambers	335 / 469	0.32
37	4 / 113.3	Donald R. Chambers	335 / 469	0.14
38	4 / 113.1	James Vancamp, et al	W33 / 377	0.05
39	4 / 113.2	Donald R. Chambers	W26 / 625	0.65
40	4 / 112	Joshua S. Amos	337 / 955	0.27
41	4 / 111	Joshua S. Amos	337 / 955	0.74
42	3 / 153	Robert D. Wetzel	OR59 / 298	0.86
43	3 / 120.5	Dennis K. Grimes, et ux	262 / 194	0.22
44	4 / 9	Eric J. Richmond, et ux	OR124 / 159	0.21
45	4 / 8.3	Kathy Loub	447 / 202	0.22
46	4 / 18	Billy R. Katherine Anderegg	164 / 147	0.31
47	4 / 17	Matthew D. Trader & Amanda N. Adams	530 / 386	0.22
48	4 / 23.1	Bonnie S. Collins, et al	563 / 316	0.20
49	4 / 23	Edsel V. Hoover, Jr.	336 / 918	0.32
50	4 / 32	Gwendolyn M. Fiber	209 / 460	0.18
51	4 / 31	Saturnina Morrison	OR81 / 499	0.22
52	4 / 30	Curtis W. Anderson & Stephanie J. Rogers	358 / 10	0.11
53	4 / 41	Kathy Wayman	OR13 / 113	0.22

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DRAWING NO: Grey Unit 2H
SCALE: 1" = 2000'
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OIL AND GAS DIVISION

DATE: June 13 2025
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47 - 095 - 02935
STATE COUNTY PERMIT

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☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,700' 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

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)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (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
<u>AQ: Robert F. Scardina & Rita K. Scardina, h/w Lease</u> Robert F. Scardina & Rita K. Scardina, h/w	Antero Resources Corporation	1/8+	235/654
<u>AP: Robert F. Scardina & Rita K. Scardina, h/w Lease</u> Robert F. Scardina & Rita K. Scardina, h/w	Antero Resources Corporation	1/8+	235/654
<u>AO: Robert F. Scardina & Rita K. Scardina, h/w Lease</u> Robert F. Scardina & Rita K. Scardina, h/w	Antero Resources Corporation	1/8+	235/654
<u>AN: AMP IV, LP Lease</u> AMP IV, LP	Antero Resources Corporation	1/8+	231/747
<u>AH: Ralph & Sophia Judge Lease</u> Ralph & Sophia Judge SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	283/360 358/257
<u>AG: Warren P. Judge Lease</u> Warren P. Judge SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	293/42 358/257
<u>AF: Edward L. Midcap Lease</u> Edward L. Midcap	Antero Resources Corporation	1/8+	266/75
<u>AE: Richard & Linda Tuttle, h/w, JTWROS Lease</u> Richard & Linda Tuttle, h/w, JTWROS	Antero Resources Corporation	1/8+	211/512
<u>AB: Richard Tuttle, et ux Lease</u> Richard Tuttle, et ux	Antero Resources Corporation	1/8+	211/512
<u>Y: Clifton C. Lough & Allyson B. Lough Lease</u> Clifton C. Lough & Allyson B. Lough	Antero Resources Corporation	1/8+	243/552
<u>V: Henry P. Snyder, et al Lease</u> Henry P. Snyder, et al Charles L. Stout Applied Mechanics Corporation Triad Hunter LLC	Charles L. Stout Applied Mechanics Corporation Triad Hunter LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment	282/338 385/100 385/566 56/718
<u>X: BRC Appalachian Minerals I LLC Lease</u> BRC Appalachian Minerals I LLC BRC Working Interest Company LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC Antero Exchange Properties	BRC Working Interest Company LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC Antero Exchange Properties Antero Resources Corporation	1/8 Assignment Assignment Assignment Merger Assignment Merger	369/300 369/784 378/764 470/668 9/404 544/242 525/315

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WV Department of
Environmental Protection

07/04/2025

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)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (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
<u>V: Henry P. Snyder, et al Lease</u> Henry P. Snyder, et al Charles L. Stout Applied Mechanics Corporation Triad Hunter LLC	Charles L. Stout Applied Mechanics Corporation Triad Hunter LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment	282/338 385/100 385/566 56/718
<u>W: Gary Holmes & Marsha L. Holmes Lease</u> Gary Holmes & Marsha L. Holmes	Antero Resources Corporation	1/8+	211/503
<u>V: Henry P. Snyder, et al Lease</u> Henry P. Snyder, et al Charles L. Stout Applied Mechanics Corporation Triad Hunter LLC	Charles L. Stout Applied Mechanics Corporation Triad Hunter LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment	282/338 385/100 385/566 56/718
<u>S: Ashley D. Efaw Lease</u> Ashley D. Efaw	Antero Resources Corporation	1/8+	265/686
<u>G: Sandra Casteel Lease</u> Sandra Casteel	Antero Resources Corporation	1/8+	256/442
<u>H: The West Virginia Department of Transportation, Division of Highways Lease</u> The West Virginia Department of Transportation, Division of Highways	Antero Resources Corporation	1/8+	357/595
<u>G: Sandra Casteel Lease</u> Sandra Casteel	Antero Resources Corporation	1/8+	256/442

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***Cotenancy Utilization** - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with 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

*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.

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>F: Timothy O. Brown Lease</u>	Timothy O. Brown	Antero Resources Corporation	1/8+	189/386

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**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

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