



---

west virginia department of environmental protection

---

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, February 24, 2025  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Graden Unit 1H  
47-103-03696-00-00

**Extended Lateral Length**

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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin  
Chief

Operator's Well Number: Graden Unit 1H  
Farm Name: Dallison Lumber Company  
U.S. WELL NUMBER: 47-103-03696-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 2/24/2025

Promoting a healthy environment.

02/28/2025

WW-6B  
(04/15)

API NO. 47- 103 - 03696  
OPERATOR WELL NO. Graden Unit 1H MOD  
Well Pad Name: Cedar Pad

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

1) Well Operator: Antero Resources Corporation 494507062 103 - Wetzel Green Pine Grove 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Graden Unit 1H MOD Well Pad Name: Cedar Pad

3) Farm Name/Surface Owner: Dallison Lumber Company Public Road Access: CR 52

4) Elevation, current ground: As-Built - 1248' Elevation, proposed post-construction: \_\_\_\_\_

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 7200' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7200' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26700' MD

11) Proposed Horizontal Leg Length: 16829' \*Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 612'

13) Method to Determine Fresh Water Depths: 47103308970000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 2193'

15) Approximate Coal Seam Depths: 1010'

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

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

FEB 10 2025

WV Department of  
Environmental Protection

WW-6B  
(04/15)

API NO. 47- 103 - 03696  
OPERATOR WELL NO. Graden Unit 1H MOD  
Well Pad Name: Cedar Pad

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	20"	New	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	662'	662'	CTS, 690 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3200'	3200'	CTS, 1303 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	26700'	26700'	CTS, 5800 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	20"	24"	0.375"	2250	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"	14,360	2500	Class G/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			

RECEIVED  
Office of Oil and Gas

FEB 10 2025

Department of  
Environmental Protection

*Handwritten signature and date*

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

Drill a new horizontal shallow well into the Marcellus Shale.

\*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

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): 71.85 acres

22) Area to be disturbed for well pad only, less access road (acres): 18.45 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 G/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.

RECEIVED  
Office of Oil and Gas

FEB 10 2025

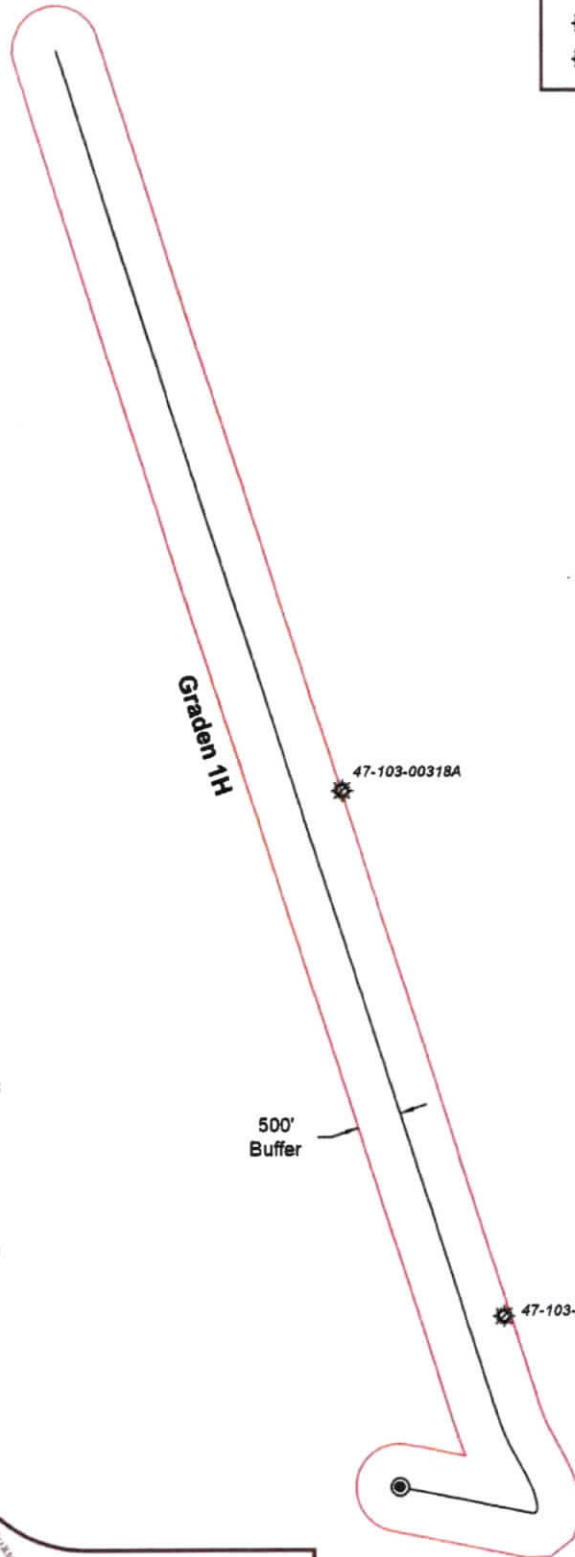
WV Department of  
Environmental Protection

**LEGEND**

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



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



RECEIVED  
Office of Oil and Gas  
  
FEB 10 2025  
  
WV Department of  
Environmental Protection

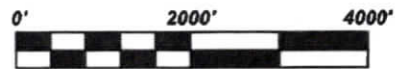


Bridgeport Office  
Phone: (304) 848-5035  
Fax: (304) 848-5037

172 Thompson Drive  
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: C. Robinson
RESEARCH: J. Miller	PREPARED: December 4, 2024
SURVEYED: Dec. 2016	PROJECT NO: 269-34-G-16
FIELD CREW: C.L., K.M.	DRAWING NO: Graden 1H AOR

Sheet 1 of 1



Scale: 1 Inch = 2000 feet

02/28/2025

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103003180000			UNKNOWN	UNKNOWN	1,810			
47103000050000	S S MAIN HRS	3385	HORNER OIL & GAS PRODUCTION INC	MANUFACT LIGHT & HEAT	3,260		Gordon	Weir, Benson, Alexander

RECEIVED  
Office of Oil and Gas  
FEB 10 2025  
WV Department of  
Environmental Protection

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
<b><u>Y: Jenkins Miller Lease</u></b>			
Jenkins Miller	Hope Natural Gas Company	1/8	0107/0056
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
Eastern States Oil & Gas Inc	Blazer Energy Corp	Merger	0012/0253
Blazer Energy Corp	Eastern States Oil & Gas Inc	Name Change	0012/0259
Eastern States Oil & Gas Inc	Equitable Production- Eastern States INC	Name Change	WVSOS
Equitable Production- Eastern States INC	Appalachian Natural Gas Trust	Assignment	079A/0244
Appalachian Natural Gas Trust	EQT Production Company	Merger	0096/0505
<b>EQT Production Company</b>	<b>Antero Resources Corporation</b>	<b>Assignment</b>	<b>230A/0801</b>
<b><u>Z: Eddie D. Dallison Lease</u></b>			
<b>Eddie D. Dallison</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>307A/0447</b>
<b><u>Y: Jenkins Miller Lease</u></b>			
Jenkins Miller	Hope Natural Gas Company	1/8	0107/0056
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	Eastern States Oil & Gas, Inc.	Assignment	076A/0232
Eastern States Oil & Gas, Inc.	Blazer Energy Corp	Merger	0012/0253
Blazer Energy Corp	Eastern States Oil & Gas, Inc.	Name Change	0012/0259
Eastern States Oil & Gas, Inc.	Equitable Production- Eastern States, Inc.	Name Change	WVSOS
Equitable Production- Eastern States, Inc.	Appalachian Natural Gas Trust	Assignment	079A/0244
Appalachian Natural Gas Trust	EQT Production Company	Merger	0096/0505
<b>EQT Production Company</b>	<b>Antero Resources Corporation</b>	<b>Assignment</b>	<b>230A/0801</b>
<b><u>X: James E. &amp; Shawn L. Coen Lease</u></b>			
<b>James E. &amp; Shawn L. Coen</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>268A/0779</b>
<b><u>V: Chesapeake Appalachia, LLC Lease</u></b>			
Chesapeake Appalachia, LLC	SWN Production Company, LLC	1/8	157A/0640
SWN Production Company, LLC	Antero Exchange Properties, LLC	Assignment	177A/0533
<b>Antero Exchange Properties, LLC</b>	<b>Antero Resources Corporation</b>	<b>Merger</b>	<b>0013/0311</b>
<b><u>U: Stephen H. Stocker Lease</u></b>			
<b>Stephen H. Stocker</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>376A/0864</b>
<b><u>S: The Tracy Living Trust Lease</u></b>			
<b>The Tracy Living Trust</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>305A/0039</b>
<b><u>R: Acropolis, Inc. Lease</u></b>			
<b>Acropolis, Inc.</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>291A/0003</b>
<b><u>P: Robert Bassett Lease</u></b>			
<b>Robert Bassett</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>297A/0398</b>
<b><u>O: Bounty Minerals, LLC Lease</u></b>			
<b>Bounty Minerals, LLC</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>296A/0326</b>

RECEIVED  
Office of Oil & Gas  
FEB 10 2025  
Oil & Gas PRODUCTION

02/28/2025

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
<b>L: Marilee S. Morgan Lease</b> Marilee S. Morgan	Antero Resources Corporation	1/8+	363A/0805
<b>H: Venable Royalty, LTD, et al Lease</b> Venable Royalty, LTD, et al	Antero Resources Corporation	1/8+	300A/0880
<b>J: John Timothy Taylor Lease</b> John Timothy Taylor	Antero Resources Corporation	1/8+	381A/0296
<b>H: Venable Royalty, LTD, et al Lease</b> Venable Royalty, LTD, et al	Antero Resources Corporation	1/8+	300A/0880
<b>C: Debra Carol Miller Lease</b> Debra Carol Miller TH Exploration	TH Exploration Antero Resources Corporation	1/8+ Assignment	195A/0327 254A/0933
<b>E: Belinda K. Harrison Lease</b> Belinda K. Harrison	Antero Resources Corporation	1/8+	345A/0753
<b>D: Jay H. Renner Lease</b> Jay H. Renner Spartan Exploration Company Acadian Energy Resources, LLC CB Energy, LLC B & R Construction, LLC B & R Holdings, Inc. Stone Energy Corporation, LLC EQT Production Company	Spartan Exploration Company Acadian Energy Resources, LLC CB Energy, LLC B & R Construction, LLC B & R Holdings, Inc. Stone Energy Corporation, LLC EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment	089A/0093 103A/0193 108A/0491 108A/0521 118A/0694 179A/0848 183A/0305 385A/0323

RECEIVED  
Office of Oil and Gas  
FEB 10 2025  
WV Department of  
Environmental Protection

\*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 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.

02/28/2025



**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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<b>B: Deborah Carol Miller Lease</b>				
	Deborah Carol Miller TH Exploration	TH Exploration Antero Resources Corporation	1/8+ Assignment	195A/0327 254A/0933

\*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

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


RECEIVED  
Office of Oil and Gas

FEB 10 2025

WV Department of  
Environmental Protection

**Antero Resources**  
**Well No. Graden 1H**  
**BHL MOD**  
**Antero Resources Corporation**

**Page 1 of 2**



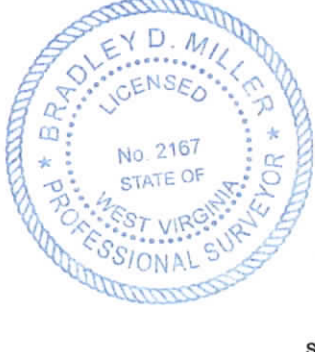
**Legend**

- ⊙ 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.)

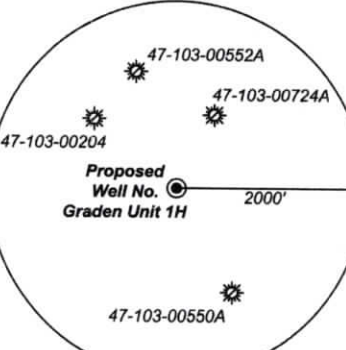
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Bradley D. Miller*

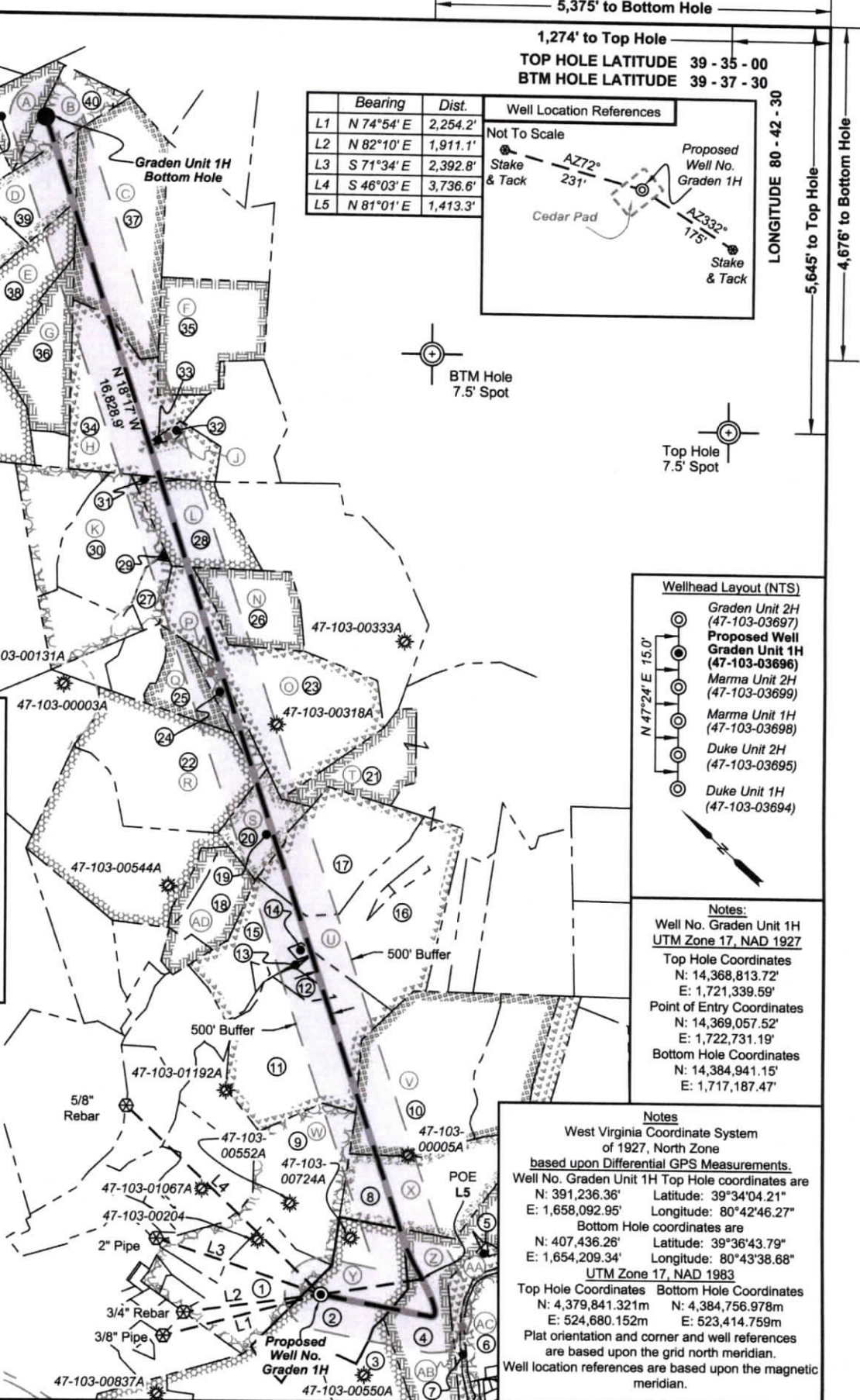
**Bradley D. Miller, P.S. 2167**



SEAL



Note: 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.



FILE NO: 46-34-G-22  
 DRAWING NO: Graden Unit 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: December 19 2024  
 OPERATOR'S WELL NO. Graden Unit 1H  
**API WELL NO**  
 47 - 103 - 03696  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
 DISTRICT: Green COUNTY: Wetzel  
 SURFACE OWNER: Dallison Lumber Company ACREAGE: 51.50 **02/28/2025**  
 ROYALTY OWNER: Jenkins Miller LEASE NO: ACREAGE: 200  
 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: 26,700' MD 7,200' TVD

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

*JM*



Leases	
A	Debra Carol Miller
B	Debra Carol Miller
C	Debra Carol Miller
D	Jay H. Renner
E	Belinda K. Harrison
F	Richard D. Hornbeck, et ux
G	Venable Royalty, LTD et al
H	Venable Royalty, LTD et al
J	John Timothy Taylor
K	Chesapeake Appalachia, LLC
L	Marilee S. Morgan
N	Richard D. Hornbeck et ux
O	Bounty Minerals, LLC
P	Robert Bassett
Q	Acropolis, Inc
R	Acropolis, Inc
S	The Tracy Living Trust
T	Antero Minerals, LLC
U	Stephen H. Stocker
V	Chesapeake Appalachia, LLC
W	Antero Minerals, LLC
X	James E. & Shawn L. Coen
Y	Jenkins Miller
Z	Eddie D. Dallison
AA	Chesapeake Appalachia, LLC
AB	WVDNR
AC	Chesapeake Appalachia, LLC
AD	Ester Ruth Coen

ID	TM-Par	Owner	Bk/Pg	Acres
1	13-40	Kenneth E. & Vicky A. Van Dyne	357/204	42.33
2	14-19	Dallison Lumber Company	357/267	51.50
3	14-34	Thelma Deaton	493/482	41.00
4	14-20	Dallison Lumber Company	357/270	109.91
5	14-21	Dominion Gathering & Processing, Inc.	460/781	3.20
6	14-36	Dominion Gathering & Processing, Inc.	460/781	57.41
7		Big Fishing Creek		
8	14-16	Antero Midstream, LLC	491/484	54.00
9	13-26.7	John M. & Stanley D. Pittman	458/837	55.00
10	14-5	Donald L. & Myrna R. Mason	390/62	93.70
11	13-17	Laura Ann Slater	423/93	83.50
12	13-17.1	Laura A. & Clayton L. Slater	461/185	6.50
13	13-11	Laura Ann Slater	423/93	0.13
14	13-10.2	Ida Morris	A110/206	1.05
15	13-10	Blue Racer Midstream LLC	452/542	25.99
16	14-1	Kenneth & Vicky A. Van Dyne	339/427	69.39
17	9-52	WSD Properties, LLC	441/793	50.00
18	9-60	Ester Ruth Coen	269A/114	14.58
19	9-43	Goodnight Cemetery	---/---	0.35
20	9-52.1	WSD Properties, LLC	441/793	25.00
21	9-44	Jerry L. & Karen B. Mason	353/216	152.00
22	9-42	WSD Properties, LLC	441/793	149.00
23	9-33	Thomas Rogers & Eliot Stearns	352/98	50.00
24	9-32	Richard David Hornbeck	334/514	16.25
25	9-31	Richard David Hornbeck	334/514	17.00
26	9-20	Richard David Hornbeck	372/423	29.30
27	9-19	Richard David Hornbeck	334/514	9.50
28	9-17	Donzel A. Hornbeck	346/142	35.00
29	9-18	Donzel A. Hornbeck	346/142	0.42
30	9-15	Keith A. Milhoan	407/375	45.25
31	9-16	Donzel A. & Rebecca L. Hornbeck	346/373	1.00
32	9-6	Ashland Cemetery	---/---	0.92
33	9-5	M.E. Church	92/392	0.92
34	9-1	Antero Resources Corporation	462/582	71.30
35	4-44	Richard D. Hornbeck	372/421	42.50
36	4-43	Donzel A. & Rebecca L. Hornbeck	346/373	35.30
37	4-30	Debra C. Miller	A103/410	76.80
38	3-38	Julie Marie Lemons	493/298	39.80
39	4-29	Timothy S. Harrison	439/202	23.00
40	4-11	Debra C. Miller	A103/410	16.80
41	4-10	Debra C. Miller	A103/410	17.50

FILE NO: 46-34-G-22  
DRAWING NO: Graden Unit 1H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV



DATE: December 19 2024  
OPERATOR'S WELL NO. Graden Unit 1H  
API WELL NO  
47 - 103 - 03696  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
DISTRICT: Green COUNTY: Wetzel  
SURFACE OWNER: Dallison Lumber Company ACREAGE: 51.50 02/28/2025  
ROYALTY OWNER: Jenkins Miller LEASE NO: ACREAGE: 200  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 7,200' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,700' MD

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