



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

Monday, June 15, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for GUM 1217 N-3H
47-041-05781-00-00

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.

A handwritten signature in black ink that reads "H. Jason Harmon".

H. Jason Harmon
Chief

Operator's Well Number: GUM 1217 N-3H
Farm Name: GARNETT A. GUM TRUST
U.S. WELL NUMBER: 47-041-05781-00-00
Horizontal 6A New Drill
Date Modification Issued: 06/15/2026

Promoting a healthy environment.

06/19/2026

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

1) Well Operator: <u>Antero Resources Corporat</u>	494507062	041 - Lewis	Freeman	Camden 7.5'
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: Gum 1217 N-3H MOD Well Pad Name: Gum 1217 Pad

3) Farm Name/Surface Owner: Garnett A. Gum Trust Public Road Access: CR 10 @ SR 16

4) Elevation, current ground: 1162' 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: 7400' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7400' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 33000' MD

11) Proposed Horizontal Leg Length: 22860'

12) Approximate Fresh Water Strata Depths: 900'

13) Method to Determine Fresh Water Depths: From West Virginia Water Resources Management Plan

14) Approximate Saltwater Depths: 1206'

15) Approximate Coal Seam Depths: 181', 1084'

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 ☒

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

CK# 4051799

\$7500

Depth: _____

Seam: _____

Owner: _____

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	30"	New	LS	157.5#	125'	125'	CTS, 120 Cu. Ft.
Fresh Water	20"	New	J-55	94#	1150'	1150'	CTS, 1198 Cu. Ft.
Coal	13-3/8"	New	J-55	68#	2285'	2285'	CTS, 930 Cu. Ft.
Intermediate	9-5/8"	New	L-80 BTC	40#	4800'	4800'	CTS, 1954 Cu. Ft.
Production	5-1/2"	New	P-110	23#	33000'	33000'	7388 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Kenneth Greynolds
Digitally signed by: Kenneth Greynolds
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas
Date: 2026.06.12 13:20:31 -04'00'

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	30"	38"	0.375"	1500	50	Class A/L	~1.18
Fresh Water	20"	26"	0.438"	2110	1000	Class A/L	~1.18
Coal	13-3/8"	17-1/2"	0.480"	3450	1500	Class A/L	~1.13
Intermediate	9-5/8"	12-1/4"	0.395"	5750	2000	Class A/L	~1.29
Production	5-1/2"	8-1/2"	0.415"	16510	3000	Class G	~1.26
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

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): 35.23 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.44 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.



June 9, 2026

West Virginia Office of Oil and Gas
Attn: Taylor Brewer
601 57th St SE
Charleston, WV 25304

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

RE: Request for Variance – Class L Cement
Gum 1217 N-1H – 4H and Gum 1217 S-5H – 7H
Lewis County, WV

Mr. Brewer:

Pursuant to 35CSR8 Section 9.2.h.8, Antero Resources Corporation ("Antero") would like to implement the variance to allow Class L Cement in place of Class A cement relating to the construction of the following horizontal wells (Gum 1217 N-1H – 4H and Gum 1217 S-5H – 7H) on the Gum 1217 pad.

Antero only plans to use this method if Class A cement is not available to be use due to supply issues. Please see Order No 2022-14 attached.

If you have any questions or need further information, please feel free to contact Mallory Turco, Permitting Manager, at (303) 357-7182 or email at mturco@anteroresources.com.

Sincerely,

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

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

06/19/2026



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

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

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

IN THE MATTER OF A VARIANCE FROM	)	
LEGISLATIVE RULE 35CSR4	)	ORDER NO. 2022-14
SECTION 11.5 AND LEGISLATIVE RULE	)	
35CSR8 SECTION 9.2.h.8.,	)	
RELATING TO THE CEMENTING	)	
OF OIL AND GAS WELLS	)	

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE STATE OF WEST VIRGINIA



James Martin, Chief
Office of Oil and Gas

06/19/2026

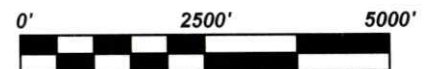
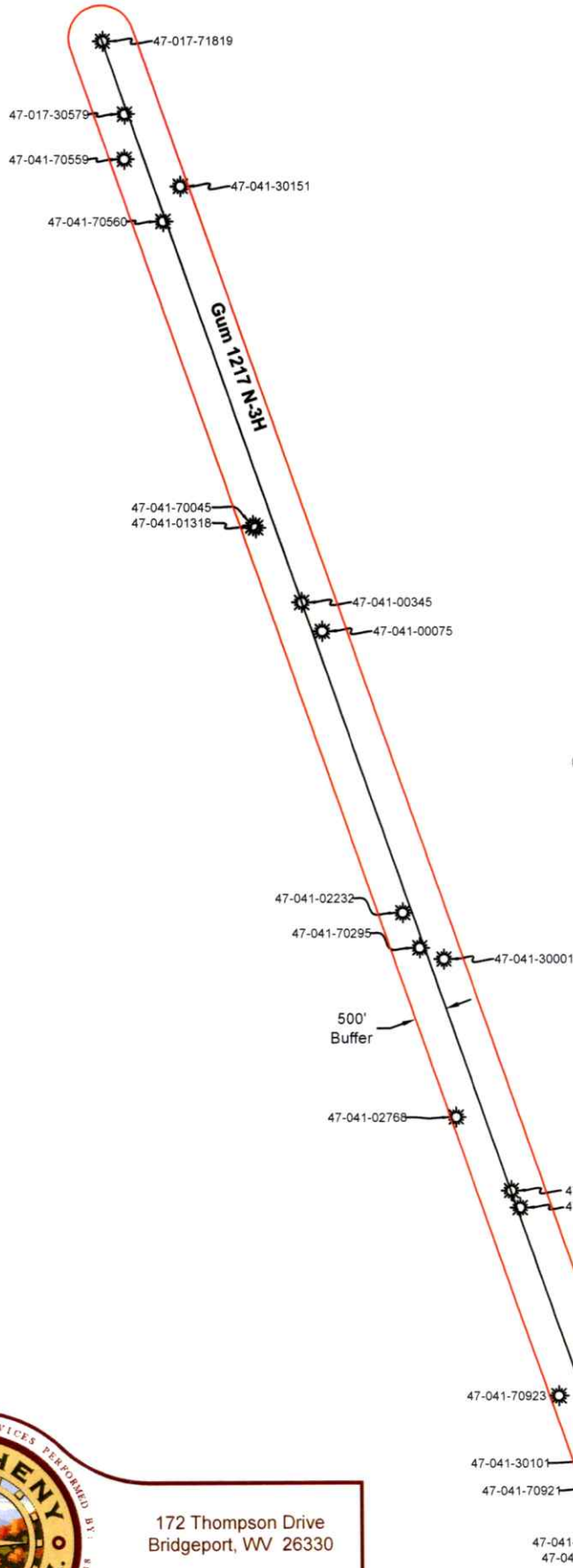
LEGEND

- 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
JUN 02 2026
WV Department of
Environmental Protection



Scale: 1 inch = 2500 feet

06/19/2026



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

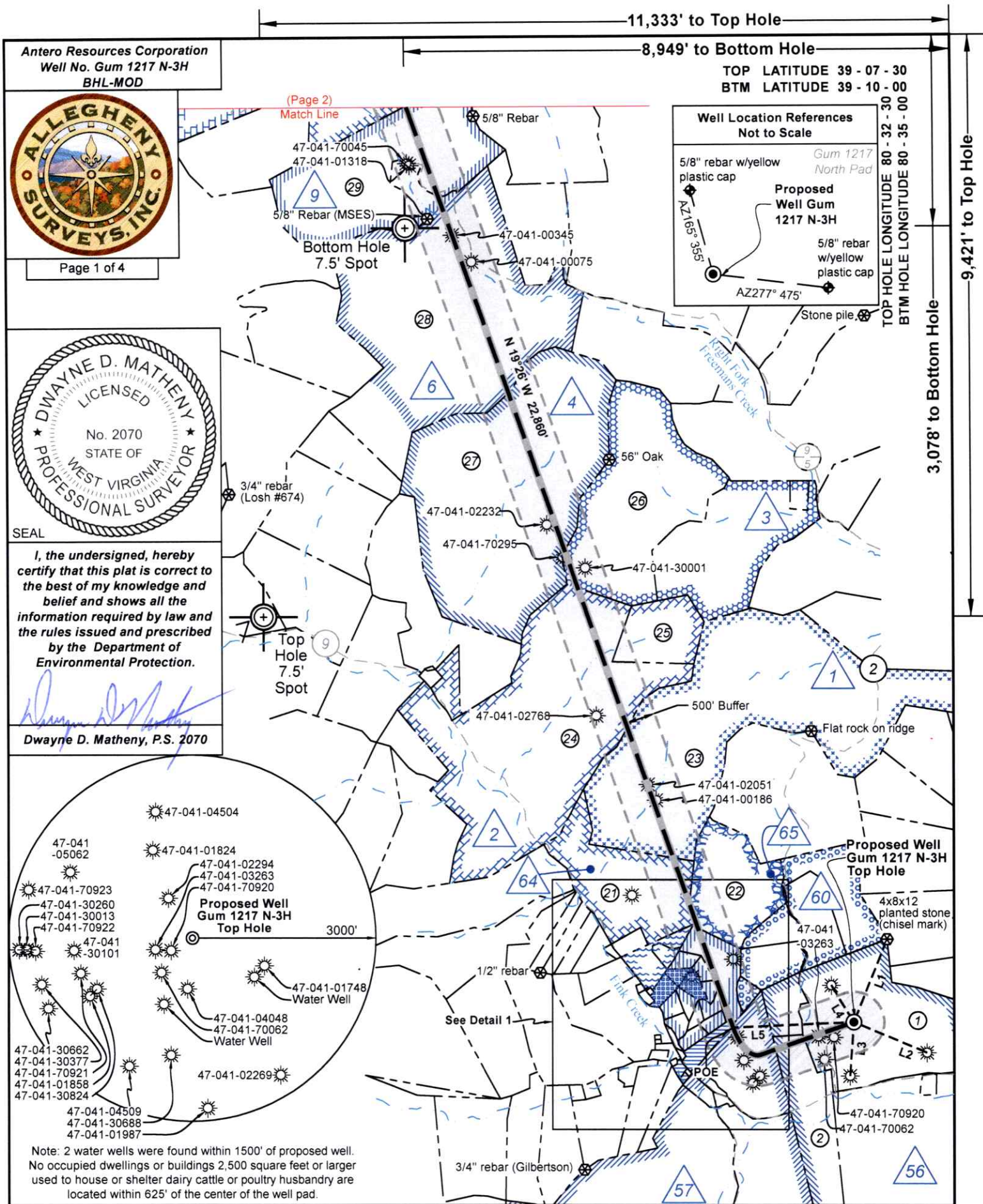
172 Thompson Drive
Bridgeport, WV 26330

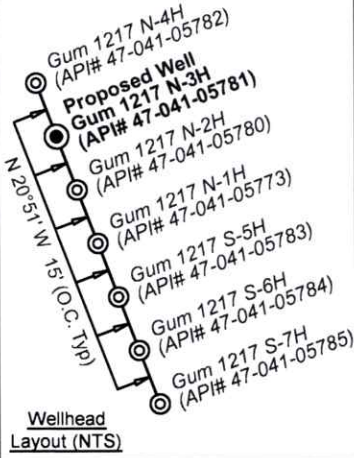
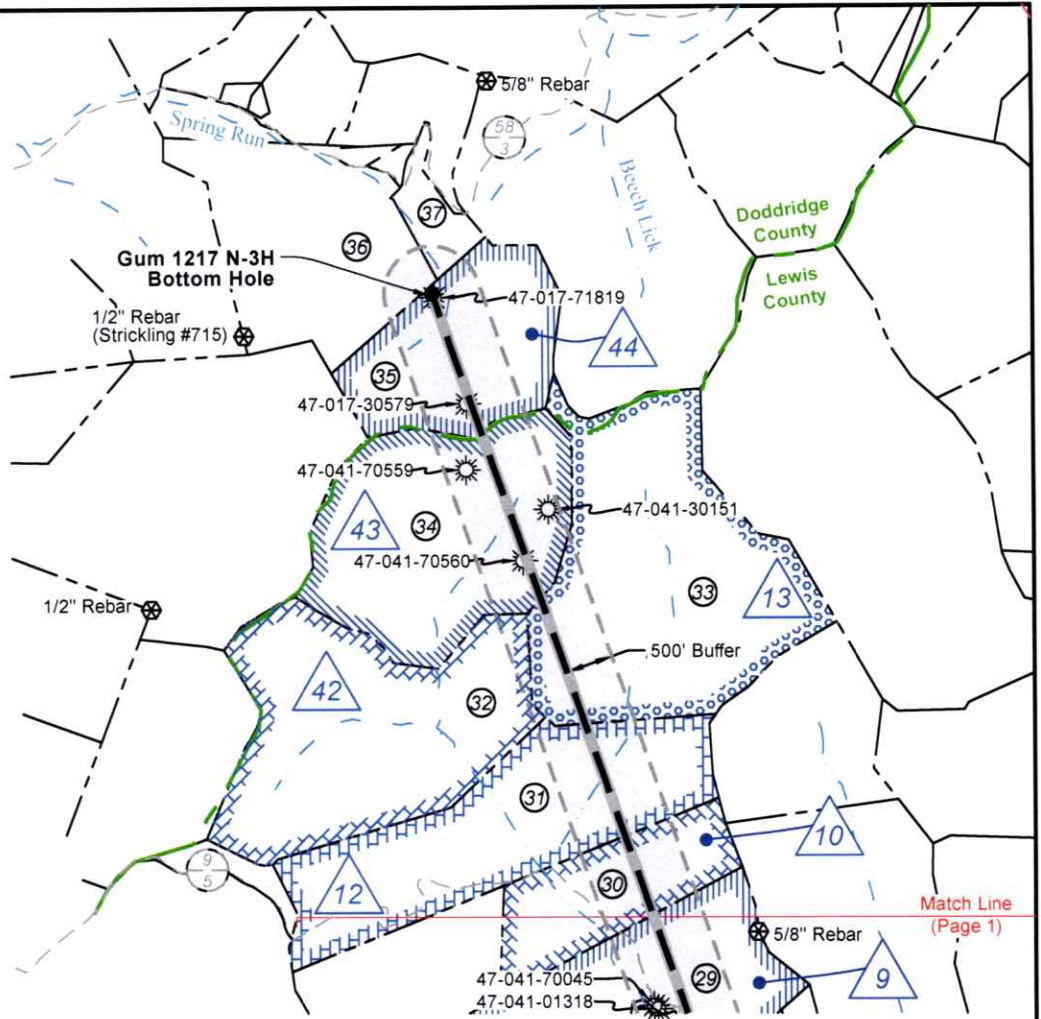
PARTY CHIEF: J. Titus	DRAWN BY: D. Rader
RESEARCH: J. Miller	PREPARED: May 18, 2026
SURVEYED: May-July 2021	PROJECT NO: 98-12-FC-26
FIELD CREW: J.T., K.M.	DRAWING NO: Gum 1217 N-3H AOR

Sheet 1 of 1

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4704170062	JOSEPH GUM/ C W GUM	3476	HOPE NATURAL GAS	HOPE NATURAL GAS				
4704170920	JOSEPH GUM	C-742	HOPE NATURAL GAS	HOPE NATURAL GAS				
4704103263	JOSEPH GUM	1	PNR PET IN	PIONEER PETR INC	2,468	2446 - 2450	Buffalo 1st, Big Injun, Gordon Stray, Gordon, Fifth	Weir, Benson, Alexander
4704101858	IRA P SIMMONS	11444	CONSOL GAS SUPPLY CRP	CONSOL GAS SUPPLY CRP	4,732	4618-4624	Bayard, Speechley, Balltown, Benson	Weir, Alexander
4704130824	IRA P SIMMONS	11230	CONSOL GAS SUPPLY CRP	CONSOL GAS SUPPLY CRP				
4704170921	W C ROMINE		UNKNOWN	UNKNOWN				
4704130101	IRA P SIMMONS	2605	HOPE NATURAL GAS	HOPE NATURAL GAS	2,448		Gordon Stray	Weir, Benson, Alexander
4704105062	GUM JERRY DALE	14323	DOMN E&P	DOMINION EXPL&PROD	5,005	2621-4860	Gordon, Fifth, Bayard, Balltown, Benson	Weir, Alexander
4704170923	W E HULL		UNKNOWN	UNKNOWN				
4704100186	WILLIAM J WOOFER	9429	HOPE NATURAL GAS	HOPE NATURAL GAS	2,222			
4704102051	WILLIAM J WOOFER	12055	CONSOL GAS SUPPLY CRP	CONSOL GAS SUPPLY CRP	4,850	4635-4650	Benson	Weir, Alexander
4704102768	A F GUM	4100	CONSOL GAS SUPPLY CRP	CONSOL GAS SUPPLY CRP				
4704130001	A H KEEMPER	4200	PITTSBURGH&W VA GAS	PITTSBURGH&W VA GAS				
4704170295			HOPE NATURAL GAS	HOPE NATURAL GAS				
4704102232	P GUM	3003	CONSOL GAS SUPPLY CRP	CONSOL GAS SUPPLY CRP				
4704100075	EDWARD FOLEY 3	8807/47104	HOPE NATURAL GAS	HOPE NATURAL GAS	2,350		Gantz	Weir, Benson, Alexander
4704100345	EDWARD FOLEY	189	HOPE NATURAL GAS	HOPE NATURAL GAS	2,544			
4704101318	E FOLEY	10618	HOPE NATURAL GAS	HOPE NATURAL GAS	2,652			
4704170045			SOUTH PENN OIL	SOUTH PENN OIL				
4704170560	FAHEY AND BEESON	4025	HOPE NATURAL GAS	HOPE NATURAL GAS				
4704130151	EDWARD FOLEY	333	RAAD & MOSES	RAAD & MOSES				
4704170559	FAHEY AND BEESON	C-334	UNKNOWN	UNKNOWN				
4704130579								
4704171819	N AND M PROPST	5966	HOPE NATURAL GAS	HOPE NATURAL GAS				

RECEIVED
 Office of Oil and Gas
 JUN 02 2026
 WV Department of
 Environmental Protection





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.)

Tag	Bearing	Dist.	Description
L1	S 21°47' W	1,463.3'	4x8x12 planted stone (chisel mark)
L2	N 67°18' W	1,297.4'	47-041-01748
L3	N 04°00' E	882.8'	47-041-04048
L4	S 31°33' E	708.0'	47-041-02294
L5	S 87°22' W	1,982.4'	Landing Point

Notes:
Well No. Gum 1217 N-3H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,198,303.78'
E: 1,759,115.50'
Point of Entry Coordinates
N: 14,198,212.89'
E: 1,757,135.20'
Bottom Hole Coordinates
N: 14,219,775.53'
E: 1,749,579.01'

Notes
West Virginia Coordinate System
of 1927, South Zone
based upon Differential GPS Measurements.
Well No. Gum 1217 N-3H Top Hole coordinates are
N: 764,664.89' Latitude: 39°05'56.84"
E: 2,118,752.01' Longitude: 80°34'53.80"
Bottom Hole coordinates are
N: 786,147.09' Latitude: 39°09'29.57"
E: 2,109,213.20' Longitude: 80°36'53.65"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,327,869.997m N: 4,334,414.512m
E: 536,194.247m E: 533,287.404m
Plat orientation and corner and well references
are based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

FILE NO: 98-12-FC-26

DRAWING NO: Gum 1217 N-3H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: May 26 20 26

OPERATOR'S WELL NO. Gum 1217 N-3H

API WELL NO

47 — 041 — 05781
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,162.0' WATERSHED: Leading Creek

DISTRICT: Freemans Creek

SURFACE OWNER: Garnett A. Gum Trust

ROYALTY OWNER: Joseph Gum, et al

LEASE NO: ACREAGE: 305.49

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: 7,400' TVD 33,000' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston

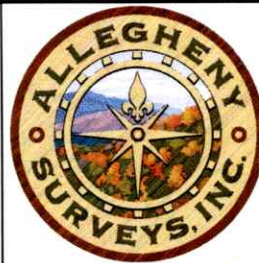
ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330

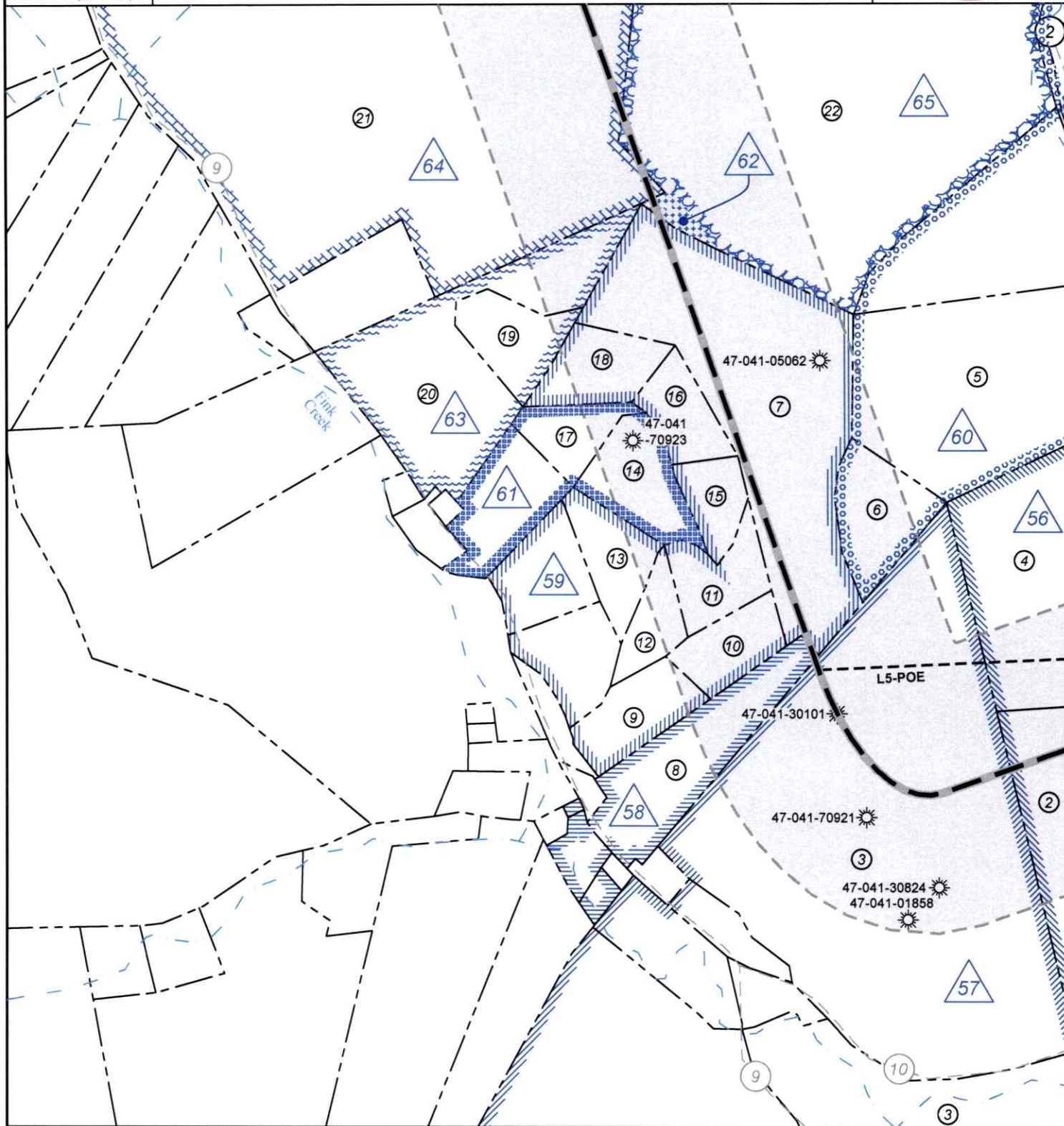
QUADRANGLE: Camden

COUNTY: 06/10/2026

ACREAGE: 101.00



Detail 1 (1"=500')



FILE NO: 98-12-FC-26

DRAWING NO: Gum 1217 N-3H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
SubmeterPROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: May 26 20 26

OPERATOR'S WELL NO. Gum 1217 N-3H

API WELL NO

47 — 041 — 05781
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☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,400' TVD
33,000' MD

WELL OPERATOR: Antero Resources Corporation

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

DESIGNATED AGENT: Conrad Baston

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330



Lewis Co. (Freemans Creek Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	4D / 43	Garnett A. Gum Trust	W25 / 37	101.00
2	4D / 43.1	Jesse & Amber Shackleford	670 / 280	46.00
3	4D / 41.2	William L. & Martha S. Gum	385 / 538	44.70
4	4D / 43.2	William L. & Martha S. Gum	385 / 534	12.00
5	4D / 40.2	William L. & Martha S. Gum	332 / 226	15.01
6	4D / 40.3	William L. & Martha S. Gum	332 / 226	3.00
7	4D / 40	Albert D. Singleton	684 / 77	16.15
8	4D / 36	William L. & Martha S. Gum	371 / 506	5.25
9	4D / 39.5	William A. Hawkins	762 / 848	2.43
10	4D / 39.4	Sonia Adkins	622 / 114	1.98
11	4D / 39.2	Sonia Adkins	622 / 114	2.12
12	4D / 40.14	Sonia Adkins	671 / 446	1.47
13	4D / 40.11	Albert D. Singleton	684 / 71	2.16
14	4D / 39.3	Albert D. Singleton	684 / 80	2.80
15	4D / 40.8	Albert D. Singleton	684 / 74	1.51
16	4D / 40.10	Albert D. Singleton	684 / 68	1.83
17	4D / 40.9	Ricky L. Gum	650 / 365	1.67
18	4D / 40.7	Kevin L. & Tammy A. Hefner	700 / 377	2.34
19	4D / 40.5	Ricky L. Gum	457 / 471	2.32
20	4D / 5.1	Anthony S. & Lisa D. Toms	608 / 498	9.46
21	4C / 6	Anthony S. & Lisa D. Toms	608 / 498	52.92
22	4C / 7	William L. & Martha S. Gum	320 / 568	52.00
23	4C / 10	Ricky Barnes, et al	598 / 747	294.98
24	4C / 3	Donna M. Walls	498 / 388	244.00
25	4C / 11	Donna M. Walls	498 / 388	32.50
26	4C / 12	Randell L. White, et al	547 / 426	118.00
27	4C / 1	Randell L. White, et al	547 / 421	237.00
28	4B / 4	Allen M. & Diane J. Jerden	571 / 507	262.09
29	3B / 23	Dominion Transmission, Inc.	591 / 761	122.38
30	3B / 22	John H. & Stephanie A. Smith	578 / 434	52.50
31	3B / 21	Joseph Fahey, et al	751 / 390	120.00
32	3B / 20	Peter C. McDonald	602 / 223	110.00
33	3A / 2	State of West Virginia, Bureau of Commerce, DNR	531 / 663	148.75
34	3A / 1	State of West Virginia, Bureau of Commerce, DNR	531 / 663	103.00
Doddridge Co. (New Milton Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
35	21 / 8	Herbert & Betty Bickford	363 / 488	77.57
36	21 / 5	Eleanor R. Nicholson	156 / 390	95.72
37	21 / 7	Herbert & Betty Bickford	363 / 488	13.52

ID	Lease
1	W.J. Woofler & Susan Woofler, his wife
2	A.F. Gum & M.L. Gum, his wife
3	A.H. Kemper & Sarah Kemper, his wife
4	Perry C. Gum & Dora Gum, his wife, et al
6	Edward Foley & Ellen A. Foley, his wife, et al
9	Joseph P. Fahey, attorney-in-fact for John J. Fahey, widower, et al
10	Tess C. Joyce, single, et al
12	T.J. Fahey & Mary E. Fahey, his wife
13	Edward Foley, Sr. & Catherine Foley, his wife
42	Anna Joyce, single, et al
43	Joseph P. Fahey, attorney-in-fact for Martin W. Fahey, widower, et al
44	David L. Nicholson, Jr.
56	Joseph Gum & Margaret Gum, his wife, et al
57	Ira P. Simmons & Adaline Simmons, his wife
58	W.C. Romine & Mary Ethel Romine, his wife, et al
59	Oral C. Fuls, Committee for Jesse A. Chevront, an incompetent person
60	P.L. Hull & M.E. Hull, his wife
61	W.E. Hull, et al
62	Emma B. Kemper, widow, et al
63	Oral C. Fuls, Committee for Jesse A. Chevront, an incompetent & M.A. Puffenbarger, unmarried
64	Oral C. Fuls, Committee for Jesse A. Chevront, an incompetent person
65	A.W. Priest, et al

FILE NO: 98-12-FC-26

DRAWING NO: Gum 1217 N-3H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

DATE: May 26 20 26

OPERATOR'S WELL NO. Gum 1217 N-3H

API WELL NO

47 — 041 — 05781

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL

(IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1,162.0' WATERSHED: Leading Creek

DISTRICT: Freemans Creek

SURFACE OWNER: Garnett A. Gum Trust

ROYALTY OWNER: Joseph Gum, et al LEASE NO: ACREAGE: 305.49

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: 7,400' TVD 33,000' 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

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
56: Joseph Gum & Margaret Gum, his wife, et al			
Lease			
Joseph Gum & Margaret Gum, his wife, et al	Hope Natural Gas Company	1/8	0068/0209
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission, Inc.	Merger	0009/0628
Dominion Transmission, Inc.	CNX Gas Company, LLC	Agreement	0672/0154
CNX Gas Company, LLC	Noble Energy, Inc	Assignment	0717/0001
Noble Energy, Inc	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
57: Ira P. Simmons & Adaline Simmons, his wife			
Lease			
Ira P. Simmons & Adaline Simmons, his wife	South Penn Oil Company	1/8	0044/0242
South Penn Oil Company	Hope Natural Gas Company	Assignment	0085/0127
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission, Inc.	Merger	0009/0628
Dominion Transmission, Inc.	CNX Gas Company, LLC	Agreement	0672/0154
CNX Gas Company, LLC	Noble Energy, Inc	Assignment	0717/0001
Noble Energy, Inc	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
58 W.C. Romine & Mary Ethel Romine, his wife, et al Lease			
W.C. Romine & Mary Ethel Romine, his wife, et al	Hope Natural Gas Company	1/8	0171/0316
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission, Inc.	Merger	0009/0628
Dominion Transmission, Inc.	CNX Gas Company, LLC	Agreement	0672/0154
CNX Gas Company, LLC	Noble Energy, Inc	Assignment	0717/0001
Noble Energy, Inc	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
59: Oral C. Fuls, Committee for Jesse A. Cheuvront, an incompetent person Lease			
Oral C. Fuls, Committee for Jesse A. Cheuvront, an incompetent person	Hope Natural Gas Company	1/8	0170/0037
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Deed	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merged	0051/0795
CNG Transmission Corporation	Dominion Transmission, Incorporated	Merged	0009/0628
Dominion Transmission, Incorporated	CNX Gas Company LLC	Memorandum	0672/0154
CNX Gas Company LLC	Noble Energy, Incorporated	Assignment	0684/0057
Noble Energy, Incorporated	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
62: Emma B. Kemper, widow, et al Lease			
Emma B. Kemper, widow, et al	Hope Natural Gas Company	1/8	0229/0285
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0009/0628
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
64: Oral C. Fulks, Committee for Jesse A. Cheuvront, an incompetent person Lease			
Oral C. Fulks, Committee for Jesse A. Cheuvront, an incompetent person	Hope Natural Gas Company	1/8	0170/0031
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0058/0362
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
65: A.W. Priest, et al Lease			
A.W. Priest, et al	Tri State Gas Company	1/8	0044/0412
Tri State Gas Company	Hope Natural Gas Company	Assignment	0073/0070
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Deed	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merged	0051/0795
CNG Transmission Corporation	Dominion Transmission, Incorporated	Merged	0058/0362
Dominion Transmission, Incorporated	CNX Gas Company LLC	Memorandum	0672/0154
CNX Gas Company LLC	Noble Energy, Incorporated	Assignment	0684/0057
Noble Energy, Incorporated	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
64: Oral C. Fulks, Committee for Jesse A. Cheuvront, an incompetent person Lease			
Oral C. Fulks, Committee for Jesse A. Cheuvront, an incompetent person	Hope Natural Gas Company	1/8	0170/0031
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0058/0362
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
1: W.J. Woofter & Susan Woofter, his wife Lease			
W.J. Woofter and Susan Woofter, his wife	E.W. Boyd	1/8	0035/0240
E.W. Boyd	S.E. Barrett	Assignment	0036/0369
S.E. Barrett	S.E. Barrett and Louis Bennett	Assignment	0030/0609
S.E. Barrett and Louis Bennett	Lewis Oil Company	Deed	0036/0438
Lewis Oil Company	J.M. Guffy and John H. Gale	Assignment	0044/0562
J.M. Guffy and John H. Gale	Philadelphia Company of West Virginia	Assignment	0073/0318
Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	Assignment	0085/0141
Pittsburgh and West Virginia Gas Company	Equitable Gas Company and Philadelphia Oil Company	Deed	0216/0185
Equitable Gas Company and Philadelphia Oil Company	Hope Natural Gas Company	Deed	0246/0192
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Deed	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merged	0051/0795
CNG Transmission Corporation	Dominion Transmission, Incorporated	Merged	0058/0362
Dominion Transmission, Incorporated	CNX Gas Company LLC	Memorandum	0672/0154
CNX Gas Company LLC	Noble Energy, Incorporated	Assignment	0684/0057
Noble Energy, Incorporated	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
2: A.F. Gum & M.L. Gum, his wife Lease			
A.F. Gum & M.L. Gum, his wife	South Penn Oil Company	1/8	0033/0215
South Penn Oil Company	Hope Natural Gas Company	Assignment	0085/0127
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0009/0628
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0154
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0684/0057
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
3: A.H. Kemper & Sarah Kemper, his wife Lease			
A.H. Kemper and Sarah Kemper, his wife	E.W. Boyd	1/8	0035/0247
E.W. Boyd	S.E. Barrett	Assignment	0030/0369
S.E. Barrett	S.E. Barrett and Louis Bennett	Assignment	0030/0609
S.E. Barrett and Louis Bennett	Lewis Oil Company	Deed	0036/0438
Lewis Oil Company	J.M. Guffy and John H. Gale	Assignment	0044/0562
J.M. Guffy and John H. Gale	Philadelphia Company of West Virginia	Assignment	0044/0583
Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	Assignment	0125/0379
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	Deed	0216/0185
Equitable Gas Company	Hope Natural Gas Company	Assignment	0246/0192
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Deed	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	Dominion Transmission, Incorporated	Merged	WVSOS
Dominion Transmission, Incorporated	CNX Gas Company LLC	Memorandum	0672/0154
CNX Gas Company LLC	Noble Energy, Incorporated	Assignment	0684/0057
Noble Energy, Incorporated	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
4: Perry C. Gum & Dora Gum, his wife, et al			
Lease			
Perry C. Gum & Dora Gum, his wife, et al	Hope Natural Gas Company	1/8	0074/0515
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0009/0628
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
6: Edward Foley & Ellen A. Foley, his wife, et al			
Lease			
Edward Foley & Ellen A. Foley, his wife, et al	Hope Natural Gas Company	1/8	0144/0214
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0009/0628
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
9: Joseph P. Fahey, attorney-in-fact for John J. Fahey, widower, et al Lease			
Joseph P. Fahey, attorney-in-fact for John J. Fahey, widower, et al	Hope Natural Gas Company	1/8	0153/0163
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0009/0672
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
10: Tess C. Joyce, single, et al Lease			
Tess C. Joyce, single, et al	Hope Natural Gas Company	1/8	0153/0057
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0058/0362
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
12: T.J. Fahey & Mary E. Fahey, his wife			
T.J. Fahey & Mary E. Fahey, his wife	Hope Natural Gas Company	1/8	0153/0097
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0009/0628
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
13: Edward Foley, Sr. & Catherine Foley, his wife			
Lease			
Edward Foley, Sr. & Catherine Foley, his wife	South Penn Oil Company	1/8	0042/0484
South Penn Oil Company	Hope Construction and Refining Company	Deed	0142/0187
Hope Construction and Refining Company	Hope Natural Gas Company	Deed	0169/0002
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Deed	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merged	0051/0795
CNG Transmission Corporation	Dominion Transmission, Incorporated	Merged	0009/0628
Dominion Transmission, Incorporated	CNX Gas Company LLC	Memorandum	0672/0154
CNX Gas Company LLC	Noble Energy, Incorporated	Assignment	0684/0057
Noble Energy, Incorporated	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197
43: Joseph P. Fahey, attorney-in-fact for Martin W. Fahey, widower, et al Lease			
Joseph P. Fahey, attorney-in-fact for Martin W. Fahey, widower, et al	Hope Natural Gas Company	1/8	0223/0141
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0294/0089
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0425/0127
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission Inc.	Merger	0009/0628
Dominion Transmission Inc.	CNX Gas Company LLC	Assignment	0672/0154
CNX Gas Company LLC	Noble Energy Inc.	Assignment	0684/0057
Noble Energy Inc.	HG Energy II Appalachia, LLC	Assignment	0722/0170
HG Energy II Appalachia, LLC	Antero Resources Corporation	Name Change	0002/0197

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
44: David L. Nicholson, Jr. Lease				
	David L. Nicholson, Jr. HG Energy II Appalachia, LLC	HG Energy II Appalachia, LLC Antero Resources Corporation	1/8 Name Change	0536/0428 0002/0197

*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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JUN 02 2026

*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.

WV Department of
Environmental Protection

**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: Max Green

Its: Vice President of Land



May 29, 2026

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Mr. Taylor Brewer
601 57th Street
Charleston, WV 25304

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

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Gum 1217 Pad: Gum 1217 N-1H (47-041-05773), Gum 1217 N-2H (47-041-05780), Gum 1217 N-3H (47-041-05781), Gum 1217 N-4H (47-041-05782), Gum 1217 S-5H (47-041-05783), Gum 1217 S-6H (47-041-05784), and Gum 1217 S-7H (47-04105785) Expedited.

Attached you will find the following:

- AOR
- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat

If you have any questions please feel free to contact me at (303) 357-6959.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "S Gaspar", written in a cursive style.

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

Enclosures

06/19/2026