



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, August 25, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Springer Unit 1H
47-103-03738-00-00

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.

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

James A. Martin
Chief

Operator's Well Number: Springer Unit 1H
Farm Name: Dallison Lumber Company Inc
U.S. WELL NUMBER: 47-103-03738-00-00
Horizontal 6A New Drill
Date Modification Issued: 8/25/2025

Promoting a healthy environment.

08/29/2025

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: Springer Unit 1H MOD Well Pad Name: Galmish Pad

3) Farm Name/Surface Owner: Dallison Lumber Company Inc. Public Road Access: McKimmie Ridge Road

4) Elevation, current ground: As-Built 1160' 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 Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 29500' MD

11) Proposed Horizontal Leg Length: 19727' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 45', 130'

13) Method to Determine Fresh Water Depths: 47103025550000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1961'

15) Approximate Coal Seam Depths: N/A

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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Environmental Protection

WW-6B
(04/15)

API NO. 47- 103 - 03738
OPERATOR WELL NO. Springer Unit 1H MOD
Well Pad Name: Galmish 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	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300'	CTS, 313 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#	29500'	29500'	CTS, 6506 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"	0.375"	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			

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Page 2 of 3
08/28/2025
Digitally signed by Stephen
McCoey
Date: 2025.08.01 11:19:11
-04'00'

Stephen McCoey

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

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 64.40 acres WV Department of Environmental Protection

22) Area to be disturbed for well pad only, less access road (acres): 17.53 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.

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103036480000	Pine Unit	1H	ANTERO RESOURCES CORP		22,384	7463 - 22294	Marcellus	
47103036490000	Pine Unit	2H	ANTERO RESOURCES CORP		21,913	7376 - 21834	Marcellus	
47103036500000	Walshin 1H	1H	ANTERO RESOURCES CORP		23,312	7701 - 23223	Marcellus	
47103036540000	Harlan Unit	1H	ANTERO RESOURCES CORP		22,565	7384 - 22485	Marcellus	
47103036550000	Harlan Unit	2H	ANTERO RESOURCES CORP		25,170	7571 - 25081	Marcellus	
47103036560000	LS LEEZER 1	8177	WEST VIRGINIA LAND	WEST VIRGINIA LAND	1,460			Weir, Benson, Alexander
47103036570000	Cobb Unit	1H	ANTERO RESOURCES CORP		26,908	8049 - 26819	Marcellus	
47103036580000	Shenango Unit	1H	ANTERO RESOURCES CORP		25,182	7939 - 25102	Marcellus	
47103036590000	Teocalli Unit	1H	ANTERO RESOURCES CORP		25,393	7647 - 25313	Marcellus	
47103035430000	Galmish	5V	ANTERO RESOURCES CORP					
47103305910000	C E GRIM 1	5235	UNKNOWN	UNKNOWN	2,896		Big Injun, Gordon	Weir, Benson, Alexander
47103725900000	SARAH M ROBINSON	5136	UNKNOWN	UNKNOWN				
47103006630000	ISAAC RICHMOND 2	380	DIVERSIFIED PRODUCTION LLC	HOPE NATURAL GAS	2,747		Big Injun	Weir, Benson, Alexander

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 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
<u>AF: Robert Barry Myers, Jr. Lease</u> Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	300A/0634
<u>AB: Freeda Marie Brown Lease</u> Freeda Marie Brown	Antero Resources Corporation	1/8+	308A/0508
<u>AE: Clarice Ann Brown LeMasters Lease</u> Clarice Ann Brown LeMasters	Antero Resources Corporation	1/8+	308A/0488
<u>AF: Robert Barry Myers, Jr. Lease</u> Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	300A/0634
<u>AC: Chesapeake Appalachia, LLC Lease</u> Chesapeake Appalachia, LLC SWN Production, LLC Antero Exchange Properties, LLC	SWN Production, LLC Antero Exchange Properties, LLC Antero Resources Corporation	1/8 Assignment Merger	157A/0640 177A/0533 0013/0311
<u>AA: Bounty Minerals, LLC Lease</u> Bounty Minerals, LLC	Antero Resources Corporation	1/8+	293A/0008
<u>W: Shiben Estates, Inc. Lease</u> Shiben Estates, Inc. EQT Production Company	EQT Production Company Antero Resources Corporation	1/8 Assignment	277A/0551 385A/0323
<u>V: Jeffrey L. Mason Lease</u> Jeffrey L. Mason	Antero Resources Corporation	1/8+	277A/0001
<u>X: Mary B. Mason Lease</u> Mary B. Mason	Antero Resources Corporation	1/8+	298A/0493
<u>U: Karen B. Mason Lease</u> Karen B. Mason	Antero Resources Corporation	1/8+	277A/0007
<u>S: Meghan A. Kalinowski Lease</u> Meghan A. Kalinowski	Antero Resources Corporation	1/8+	294A/0026
<u>T: Bounty Minerals, LLC Lease</u> Bounty Minerals, LLC	Antero Resources Corporation	1/8+	296A/0329
<u>P: John Phillip Springer and Eva J. Springer Lease</u> John Phillip Springer and Eva J. Springer	Antero Resources Corporation	1/8+	301A/0638
<u>Q: The Donely O. Springer Rev. Living Trust Lease</u> The Donely O. Springer Rev. Living Trust	Antero Resources Corporation	1/8+	302A/0286
<u>P: John Phillip Springer and Eva J. Springer Lease</u> John Phillip Springer and Eva J. Springer	Antero Resources Corporation	1/8+	301A/0638
<u>N: The 5 K's Future, LLC Lease</u> The 5 K's Future, LLC	Antero Resources Corporation	1/8+	322A/0141

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WV
Environmental Protection
Assignment

08/29/2025

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>M: Master Mineral Holdings II, LP Lease</u>			
Master Mineral Holdings II, LP SEP Appalachia, LLC	SEP Appalachia, LLC Antero Resources Corporation	1/8+ Agreement	385A/0229 418A/0195
<u>K: Redstone Resources, LLC Lease</u>			
Redstone Resources, LLC	Antero Resources Corporation	1/8+	219A/0455
<u>J: Lea Marie Vigil, JTWROS, With Sheri Margaret Fortune Lease</u>			
Lea Marie Vigil, JTWROS, With Sheri Margaret Fortune	Antero Resources Corporation	1/8+	317A/0663
<u>G: BRC Appalachian Minerals I, LLC Lease</u>			
BRC Appalachian Minerals I, LLC	BRC Working Interest Company	1/8	102A/0505
BRC Working Interest Company	Chesapeake Appalachia, LLC	Assignment	103A/0470
Chesapeake Appalachia, LLC	SWN Production Company	Assignment	157A/0540
SWN Production Company	Antero Exchange Properties, LLC	Assignment	177A/0533
Antero Exchange Properties, LLC	Antero Resources Corporation	Merge	0013/0311
<u>F: Jessie A. Thompson Lease</u>			
Jessie A. Thompson	Antero Resources Corporation	1/8+	294A/0394
<u>H: John Osborne Furbree Lease</u>			
John Osborne Furbree	Antero Resources Corporation	1/8+	357A/0767
<u>A: James A. Greathouse and Donna L. Greathouse Lease</u>			
James A. Greathouse and Donna L. Greathouse	Stone Energy Corporation	1/8	159A/0408
Stone Energy Corporation	EQT Corporation Company	Assignment	183A/0305
EQT Corporation Company	Antero Resources Corporation	Assignment	230A/0801
<u>C: Stone Hill Minerals Holdings, LLC Lease</u>			
Stone Minerals Holdings, LLC	TH Exploration, LLC	1/8	289A/0450
Th Exploration, LLC	Antero Resources Corporation	Assignment	318A/0035

*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.

08/29/2025

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
A: James A. Greathouse and Donna L. Greathouse Lease				
	James A. Greathouse and Donna L. Greathouse Stone Energy Corporation EQT Production Company	Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment	159A/0408 183A/0305 230A/0801

*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

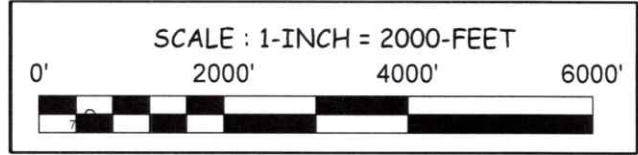
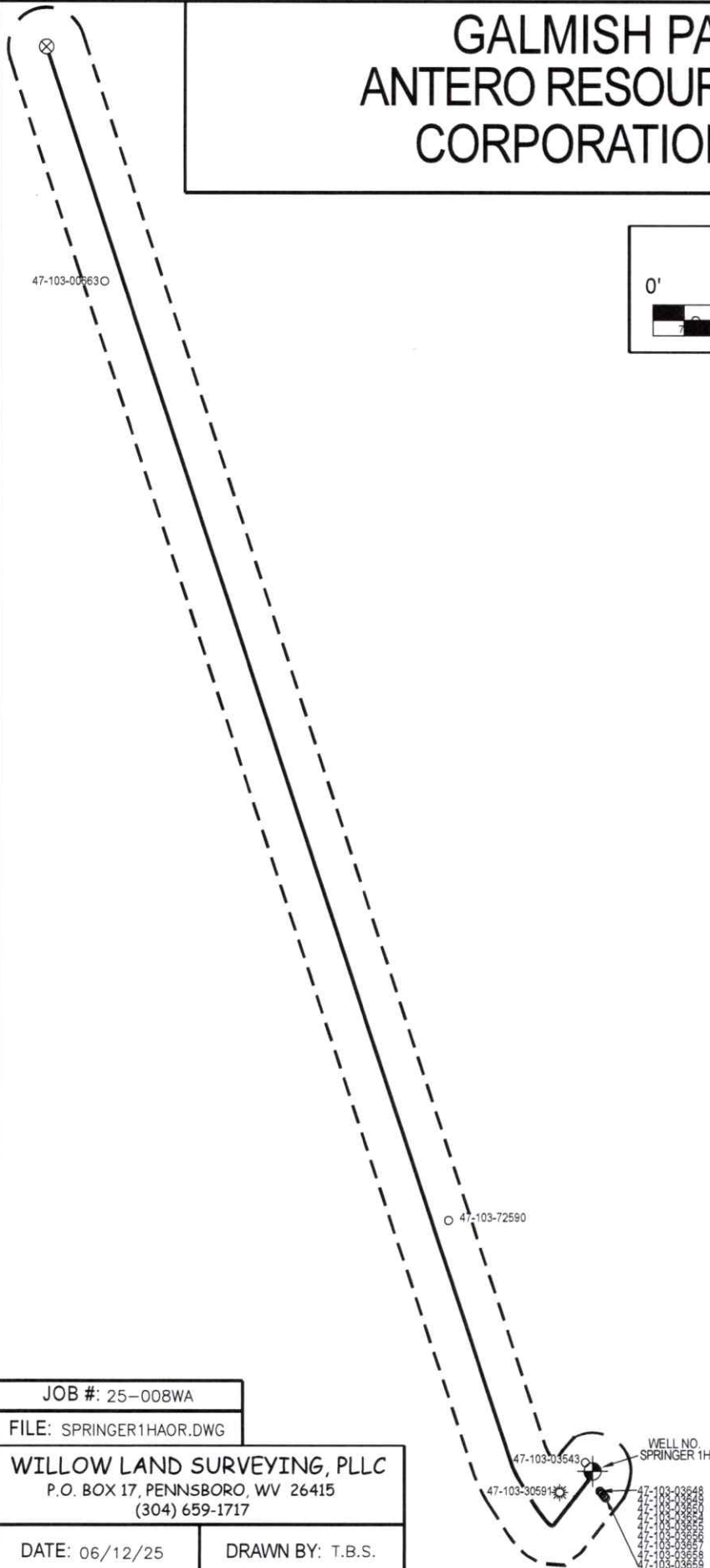
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity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

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Office of Oil & Gas
AUG 07 2025
WV Department of
Environmental Protection

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

4043921
8/5/25
\$2,500.00

GALMISH PAD ANTERO RESOURCES CORPORATION



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JOB #: 25-008WA

FILE: SPRINGER1HAOR.DWG

WILLOW LAND SURVEYING, PLLC
P.O. BOX 17, PENNSBORO, WV 26415
(304) 659-1717

DATE: 06/12/25

DRAWN BY: T.B.S.

08/29/2025

LATITUDE 39°35'00"

8,283'

LATITUDE 39°40'00"

3,886' TO BOTTOM HOLE

Antero Resources
Corporation
Well No. Springer #1H

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 394,882ft E: 1,662,878ft
LAT: 39°34'40.87" LON: 80°41'45.79"
BOTTOM HOLE INFORMATION:
N: 413,342ft E: 1,655,778ft
LAT: 39°37'42.36" LON: 80°43'19.67"
WEST VIRGINIA COORDINATE
SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM
MEASUREMENTS TAKEN WITH
TRIMBLE GEOXT SUBMETER
MAPPING GRADE GPS UNIT.
PLAT ORIENTATION, CORNER,
AND WELL REFERENCE TIE LINES
ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,380,976m E: 526,119m
BOTTOM HOLE INFORMATION:
N: 4,386,564m E: 523,863m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,372,537ft E: 1,726,061ft
POINT OF ENTRY INFORMATION:
N: 14,372,267ft E: 1,725,202ft
BOTTOM HOLE INFORMATION:
N: 14,390,870ft E: 1,718,657ft

REFERENCES

1" = 300'
STAKE/
NAIL, SET
WELL NO. 1H
S 81° E
272.7'

Proctor District - Wetzel County
19-18 Donna Greathouse
19-22 Donna Greathouse
19-26 Donna Greathouse
19-36.2 James Howard Greathouse II, Et Al
20-15 James & Mary Greathouse
20-16.2 Laura Howell
20-16.4 Tracy Myers, Et Al
20-16.5 Joseph Jackson
20-30 James & Mary Greathouse
20-31 James & Mary Greathouse
20-32 Stephen & Patricia Goudy
20-32.1 Stephen & Patricia Goudy
20-38 Frank & Jessie Thompson



PAD LAYOUT NOT TO SCALE
ANGULO UNIT 1H
15'
CRAFTSMAN UNIT 1H
15'
SPRINGER UNIT 1H
15'
BUCHER UNIT 1H
15'
QUAY UNIT 1H
15'
QUAY UNIT 2H
15'

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
PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION
OF ENVIRONMENTAL PROTECTION,
OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO
WEST VIRGINIA 26415

JOB # 25-008WA

DRAWING # SPRINGER1HR

SCALE 1" = 2000'

MINIMUM DEGREE OF
ACCURACY SUBMETERPROVEN SOURCE OF ELEV.
SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

LEGEND

— Surface Owner Boundary Lines +/-
— Adjoining Surface Tracts +/-
— Found monument, as noted

THOMAS SUMMERS P.S. 2109

DATE 6/12/25

OPERATOR'S WELL# SPRINGER UNIT #1H

47 — 103 — 03738
STATE COUNTY PERMIT

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

LOCATION: ELEVATION AS BUILT - 1,160.0' WATERSHED FISHING CREEK

QUADRANGLE PINE GROVE 7.5' DISTRICT GREEN COUNTY WETZEL

SURFACE OWNER DALLISON LUMBER COMPANY INC.

ACREAGE 25 ACRES +/-

OIL & GAS ROYALTY OWNER ROBERT BARRY MYERS, JR.

LEASE ACREAGE 25 ACRES±

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL

(SPECIFY) MOD-BHL

PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐

TARGET FORMATION MARCELLUS

ESTIMATED DEPTH 7,600' TVD 29,500' MD

WELL OPERATOR ANTERO RESOURCES CORP.

DESIGNATED AGENT CONRAD BASTON

ADDRESS 1615 WYNKOOP ST.

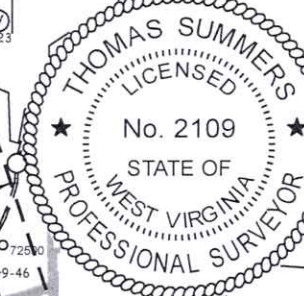
ADDRESS 535 WHITE OAK BLVD.

FORM WW-6

DENVER, CO 80202

BRIDGEPORT, WV 26330

Green District - Wetzel County	LESSOR
4-1 Jessie Thompson	A JAMES A. GREATHOUSE AND DONNA L. GREATHOUSE
4-2 Rick & Cathy Doty	B GENELDA M. MASON AND WELLS JUNIOR MASON
4-3 Rick & Cathy Doty	C STONE HILL MINERALS HOLDINGS, LLC.
4-4 Debra Miller	D STONE HILL MINERALS HOLDINGS, LLC.
4-5 George & John Mason	E STEPHEN A. GOUDY AND PATRICIA A. GOUDY
4-6 George Mason, Et Al	F JESSIE A. THOMPSON
4-7 Debra Miller	G BRC APPALACHINA MINERALS I, LLC.
4-8 David Anderson Et Al	H JOHN OSBORNE FURBEE
4-9 Richard Hornbeck	I MASTER MINERAL HOLDINGS II, LP.
4-10 John Howell	J LEA MARIE VIGIL, JTROS, WITH SHERI MARGARET FORTUNE
4-11 Hazel Howell Est.	K RESTONE RESOURCES, LLC.
4-12 Debra Miller	L TRACY L. YOHO
4-13 Debra Miller	M MASTER MINERAL HOLDINGS II, LP.
4-14 William Fletcher	N THE 5 K'S FUTURE, LLC.
4-15 Donley O Springer Reconvertible Living Trust	O WILLIAM W. FLETCHER, SR.
4-16 James Welch, Et Al	P JOHN PHILLIP SPRINGER AND EVA J. SPRINGER
4-17 Howard & Clara Bucher	Q THE DONLEY O. SPRINGER REV. LIVING TRUST
4-18 Lawrence Mason	R DEAN H. BUCHER
4-19 Karen Mason	S MEGHAN A. KALINOWSKI
4-20 Megan Thomas & Elizabeth McFadden	T BOUNTY MINERALS, LLC.
4-21 Lawrence Mason	U KAREN B. MASON
4-22 Karen Mason	V JEFFREY L. MASON
4-23 John Haight	W SHIBEN ESTATES, INC.
4-24 Dallison Lumber Company Inc	X MARY B. MASON
4-25 Dallison Lumber Company Inc	Y DRILLING APPALACHIAN CORPORATION
4-26 Antero Midstream LLC	Z EDDIE D. DALLISON
4-27 G T Brock Cemetery	AA BOUNTY MINERALS, LLC.
4-28 Dallison Lumber Company Inc	AB FREEDA MARIE BROWN
4-29 Harry & Sharon Burton	AC CHESAPEAKE APPALACHIA, LLC.
4-30 Donald & Myrna Mason	AD SHIBEN ESTATES, INC.
4-31 Antero Midstream LLC	AE CLARICE ANN BROWN LEMASTERS
4-32 Antero Midstream LLC	AF ROBERT BARRY MYERS, JR.
4-33 James C. Adams Et Al	AG JAMES HOWARD GREATHOUSE II AND JESSICA NICOLE GREATHOUSE, JTROS
4-34 James C. Adams Et Al	AH LAWRENCE E. SHADE AND CHERYL L. SHADE
4-35 Dallison Lumber Company Inc	AI DEBRA CAROL MILLER
4-36 Sandra Fortney	AJ DEBRA CAROL MILLER
4-37 Freda Brown	AK JOHN M. HOWELL, BY AIF BILLY G. HOWELL, SR.
4-38 James C. Adams Et Al	AL TERRY LEE CUMMINGS
	AM COOPER CAIN



08/29/2025

LATITUDE 39°35'00"

8,283'

LATITUDE 39°40'00"

3,886' TO BOTTOM HOLE

Antero Resources
Corporation
Well No. Springer #1H

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 394,882ft E: 1,662,878ft
LAT: 39°34'40.87" LON: 80°41'45.79"
BOTTOM HOLE INFORMATION:
N: 413,342ft E: 1,655,778ft
LAT: 39°37'42.36" LON: 80°43'19.67"
WEST VIRGINIA COORDINATE
SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM
MEASUREMENTS TAKEN WITH
TRIMBLE GEOXT SUBMETER
MAPPING GRADE GPS UNIT.
PLAT ORIENTATION, CORNER,
AND WELL REFERENCE TIE LINES
ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,380,976m E: 526,119m
BOTTOM HOLE INFORMATION:
N: 4,386,564m E: 523,863m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,372,537ft E: 1,726,061ft
POINT OF ENTRY INFORMATION:
N: 14,372,267ft E: 1,725,202ft
BOTTOM HOLE INFORMATION:
N: 14,390,870ft E: 1,718,657ft



Proctor District - Wetzel County
19-18 Donna Greathouse
19-22 Donna Greathouse
19-26 Donna Greathouse
19-36.2 James Howard Greathouse II, Et Al
20-15 James & Mary Greathouse
20-16.2 Laura Howell
20-16.4 Tracy Myers, Et Al
20-16.5 Joseph Jackson
20-30 James & Mary Greathouse
20-31 James & Mary Greathouse
20-32 Stephen & Patricia Goudy
20-32.1 Stephen & Patricia Goudy
20-38 Frank & Jessie Thompson



PAD LAYOUT NOT TO SCALE

ANGULO UNIT 1H
CRAFTSMAN UNIT 1H
SPRINGER UNIT 1H
BUCHER UNIT 1H
QUAY UNIT 1H
QUAY UNIT 2H

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
PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION
OF ENVIRONMENTAL PROTECTION,
OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO
WEST VIRGINIA 26415

JOB # 25-008VA
DRAWING # SPRINGER1HR
SCALE 1" = 2000'
MINIMUM DEGREE OF
ACCURACY SUBMETER
PROVEN SOURCE OF ELEV.
SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

LEGEND

Surface Owner Boundary Lines +/-
Adjoining Surface Tracts +/-
Found monument, as noted

THOMAS SUMMERS P.S. 2109

DATE 6/12/25

OPERATOR'S WELL# SPRINGER UNIT #1H

47 - 103 - 03738
STATE COUNTY PERMIT

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

LOCATION: ELEVATION AS BUILT - 1,160.0' WATERSHED FISHING CREEK
QUADRANGLE PINE GROVE 7.5' DISTRICT GREEN COUNTY WETZEL

SURFACE OWNER DALLISON LUMBER COMPANY INC. ACREAGE 25 ACRES +/-

OIL & GAS ROYALTY OWNER ROBERT BARRY MYERS, JR. LEASE ACREAGE 25 ACRES +/-

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ REDRILL ☐ FRACTURE OR STIMULATE ☒

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL

(SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,600' TVD 29,500' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CONRAD BASTON

ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAK BLVD.

FORM WW-6

DENVER, CO 80202

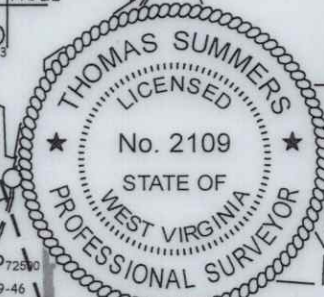
BRIDGEPORT, WV 26330

Green District - Wetzel County
4-1 Jessie Thompson
4-2 Jessie Thompson
4-5 Rick & Cathy Doty
4-5.1 Rick & Cathy Doty
4-14 Debra Miller
4-15 George & John Mason
4-16 George Mason, Et Al
4-21 Debra Miller
4-22 David Anderson Et Al
4-31 Richard Hornbeck
4-33 John Howell
4-34 Hazel Howell Est.
4-35 Debra Miller
4-46 Debra Miller
4-47 William Fletcher
9-8 Donkey O Springer Recovable Living Trust
9-9 James Welch, Et Al
9-10 Howard & Clara Bucher
9-21 Lawrence Mason
9-22 Karen Mason
9-22.1 Megan Thomas & Elizabeth McFadden
9-22.2 Lawrence Mason
9-23 Karen Mason
9-44 Karen Mason
9-46 John Hought
9-47 Dallison Lumber Company Inc
9-53 Dallison Lumber Company Inc
9-55 Antero Midstream LLC
9-56 T Brock Cemetery
9-58 Dallison Lumber Company Inc
14-4 Harry & Sharon Burton
14-5 Donald & Myrna Mason
14-5.1 Antero Midstream LLC
14-6 Antero Midstream LLC
14-7 James C. Adams Et Al
14-8 James C. Adams Et Al
14-9 Dallison Lumber Company Inc
14-10 Sandra Fortney
14-10.1 Sandra Fortney
14-12 Freda Brown
14-17 James C. Adams Et Al

LESSOR

A	JAMES A. GREATHOUSE AND DONNA L. GREATHOUSE
B	GENELDA M. MASON AND WELLS JUNIOR MASON
C	STONE HILL MINERALS HOLDINGS, LLC.
D	STONE HILL MINERALS HOLDINGS, LLC.
E	STEPHEN A. GOUDY AND PATRICIA A. GOUDY
F	JESSIE A. THOMPSON
G	BRC APPALACHINA MINERALS I, LLC.
H	JOHN OSBORNE FURBEE
I	MASTER MINERAL HOLDINGS II, LP.
J	LEA MARIE VIGIL, JTWROS, WITH SHERI MARGARET FORTUNE
K	RESTONE RESOURCES, LLC.
L	TRACY L. YOHO
M	MASTER MINERAL HOLDINGS II, LP.
N	THE 5 K'S FUTURE, LLC.
O	WILLIAM W. FLETCHER, SR.
P	JOHN PHILLIP SPRINGER AND EVA J. SPRINGER
Q	THE DONELY O. SPRINGER REV. LIVING TRUST
R	DEAN H. BUCHER
S	MEGHAN A. KALINOWSKI
T	BOUNTY MINERALS, LLC.
U	KAREN B. MASON
V	JEFFREY L. MASON
W	SHIBEN ESTATES, INC.
X	MARY B. MASON
Y	DRILLING APPALACHIAN CORPORATION
Z	EDDIE D. DALLISON
AA	BOUNTY MINERALS, LLC.
AB	FREEDA MARIE BROWN
AC	CHESAPEAKE APPALACHIA, LLC.
AD	SHIBEN ESTATES, INC.
AE	CLARICE ANN BROWN LEMASTERS
AF	ROBERT BARRY MYERS, JR.
AG	JAMES HOWARD GREATHOUSE II AND JESSICA NICOLE GREATHOUSE, JTWROS
AH	LAWRENCE E. SHADE AND CHERYL L. SHADE
AI	DEBRA CAROL MILLER
AJ	DEBRA CAROL MILLER
AK	JOHN M. HOWELL, BY AIF BILLY G. HOWELL, SR.
AL	TERRY LEE CUMMINGS
AM	COOPER CAIN

1H BOTTOM HOLE



WELL NO. 1H
POINT OF ENTRY
31137
30613
30616
3059
3543
3648-3650
3654-3659
72596

08/29/2025

LONGITUDE 80°40'00"

LONGITUDE 80°42'30"

COUNTY NAME PERMIT