



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

Thursday, April 23, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for MANTLE UNIT 1H
47-085-10573-00-00

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 handwritten signature in black ink, reading "H. Jason Harmon".

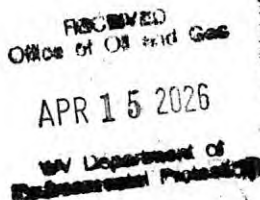
H. Jason Harmon
Acting Chief

Operator's Well Number: MANTLE UNIT 1H
Farm Name: LOUIS D. EASTERDAY
U.S. WELL NUMBER: 47-085-10573-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/23/2026

Promoting a healthy environment.

04/24/2026

WW-6B
(04/15)



API NO. 47-085 - 10573
OPERATOR WELL NO. Mantle Unit 1H MOD
Well Pad Name: Miner Pad

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

1) Well Operator: Antero Resources Corporat 494507062 085- Ritchie Union Pullman 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Mantle Unit 1H MOD Well Pad Name: Miner Pad

3) Farm Name/Surface Owner: Louis D. Easterday Public Road Access: Pullman Road

4) Elevation, current ground: 1097' Elevation, proposed post-construction: 1097'

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: 6900' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6900' TVD ✓

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25,000' MD

11) Proposed Horizontal Leg Length: 16,060'

12) Approximate Fresh Water Strata Depths: 405', 757' ✓

13) Method to Determine Fresh Water Depths: 47-085-08082, 47-085-04932 ✓

14) Approximate Saltwater Depths: 1085', 1522' ✓

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: _____

Jeremy Newlon 4-3-2026

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#	807'	807' ✓	CTS, 841 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3000	3000	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	25,000'	25,000'	5372 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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

PACKERS

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

Jeremy Newlon 4-3-2026

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

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

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WV Department of
Environmental Protection

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): 36.68 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.70 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.

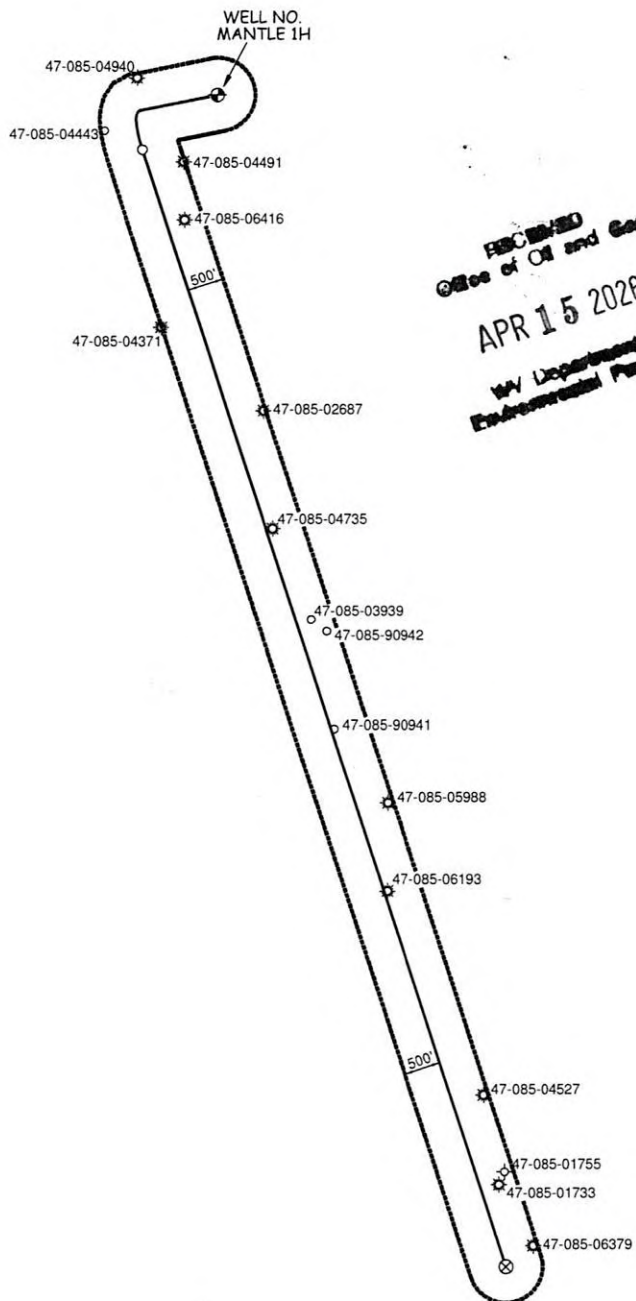
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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.

Jeremy Newlon 4-3-2026 Page 3 of 3
04/24/2026

MINEAR PAD ANTERO RESOURCES CORPORATION



REC'D
Office of Oil and Gas
APR 15 2026
WV Department of
Environmental Protection

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

JOB #: 25-028WA

FILE: MANTLE1HAOR.DWG

DATE: 02/13/26

DRAWN BY: D.L.P.

SCALE : 1-INCH = 2000-FEET

0' 2000' 4000' 6000'



04/24/2026

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4708504491	PERINE K B & P	H-893	HAUGHT G L & SONS	HAUGHT G L & SONS	2,450	2286 - 2332	Weir	Benson, Alexander
4708504443	PERINE KENNETH & PA	H-880	ZICKEFOOSE W F & R L	HAUGHT G L & SONS	2,451	2002 - 2345		
4708504940	HAYHURST ESTER	1	ALLSTATE ENERGY	ALLSTATE ENERGY	2,500	1971 - 2390	Big Injun, Weir, Berea	Benson, Alexander
4708506416	LAYTON EDITH D	1	ALLSTATE ENERGY	ALLSTATE ENERGY	5,190	2982 - 5033	Udev	Benson, Alexander
4708504371	BETTS DONZEL ETUX	H-816	HAUGHT G L & SONS	HAUGHT G L & SONS	2,450	2302 - 2346		Benson, Alexander
4708502687	C O WISE	1	STRICKLIN C A	STRICKLIN C A	1,860		Big Injun	Benson, Alexander
4708504735	GEORGE ROGER L ETUX	1	ALLSTATE ENERGY	ALLSTATE ENERGY	2,298	2046 - 2180	Weir, Berea	Benson, Alexander
4708503939	W S CHAPMAN	844	CARNEGIE PRODUCTION CO	CARNEGIE NATURAL GAS				
4708590942								
4708590941								
4708505988	GOFF JOHN A ET AL	1	PRIOR OIL CO	PRIOR OIL CO	4,988	3112 - 4563	Lower Huron	Benson, Alexander
4708506193	GOFF JOHN ET AL	2	PRIOR OIL CO	PRIOR OIL CO	4,973	3215 - 4870	Speechley, Lower Huron, Alexander	Benson, Alexander
4708504527	HURLEY ROBINSON	1	PRIOR OIL CO	PRIOR OIL CO	2,175	1724 - 2164	Big Injun, Weir, Berea	Benson, Alexander
4708501755	NILE BLAYNE HEIRS	1	MOSSOR W H	MOSSOR W H	1,800		Big Injun	Benson, Alexander
4708501733	ROY BEE	1	RITCHIE PETROLEUM CORP INC	MOSSOR W H	1,787		Big Injun	Benson, Alexander
4708506379	COX J A	1	PRIOR OIL CO	PRIOR OIL CO	5,136	3250 - 5020	Warren, Speechley, Balltown, Bradford, Riley, Java, Alexander	Benson, Alexander

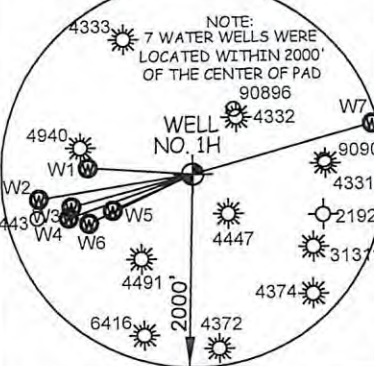
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 Office of Oil and Gas
 APR 15 2026
 WV Department of
 Environmental Protection

Antero Resources
Corporation
Well No. Mantle #1H

UNION DISTRICT - RITCHIE COUNTY	
7-13	Dawn McLaughlin
7-14	Wayne & Delphene Haddox
7-15	Louis Daniel Easterday Revocable Living Trust
7-16	Louis D Easterday
7-18	Louis D Easterday
12-6	Robert & Dorothy Layton
12-6.1	Robert & Dorothy Layton
12-7	Louis Daniel Easterday Revocable Living Trust
12-7.1	Louis Daniel Easterday Revocable Living Trust
12-13	Clay Mossor & Victoria McGinnis
12-13.1	Clay Mossor & Victoria McGinnis
12-14	Melissa K. Robinson Et Al
12-15	Melissa K. Robinson Et Al
12-16	Melissa K. Robinson Et Al
12-17	Melissa K. Robinson Et Al
12-18	Melissa K. Robinson Et Al
12-19	Melissa K. Robinson Et Al
12-20	Melissa K. Robinson Et Al
12-21	Melissa K. Robinson Et Al
12-21.1	Melissa K. Robinson Et Al
12-22	Kenny & Briana Westfall
12-23	Jaqueline McCullough
12-24	Carl Shields
12-25	Kenny & Briana Westfall
12-26	Pamela Nicholson
12-26.2	Rhonda & Eric White
12-29.1	Charles Amos
12-29.2	Ardeth Haddox
12-29.3	Ardeth Haddox
12-30	Jenna Amos
12-30.2	Kenny & Briana Westfall
12-30.1	Melissa K. Robinson Et Al
12-31	Jay Grea
12-37	James & Theresa Swathwood
12-38	James & Theresa Swathwood
12-38.1	James & Theresa Swathwood
12-39	Robert & Tonya McNemar
12-40	James & Theresa Swathwood
12-40.1	James & Theresa Swathwood
12-41	James & Theresa Swathwood
12-42	John & Ronald Warley
13-21.4	Hershsberger Sawing & Logging LLC
13-26	Robert & Judith Miller
18-11.2	Craig Harper
18-17.3	Jay Schermerman & Athena Bayne
18-18	Jay Schermerman & Athena Bayne
19-1	Anthony & Geraldine Romeo
19-2	John Goff
19-2.1	John Goff
19-2.2	John Goff
19-2.3	John Goff
19-2.4	John Goff
19-19	Jay Goff
19-20	Lizetta Goff
19-21	Lizetta Goff

PULLMAN CORPORATION - RITCHIE COUNTY	
1-1	John Grea
1-2	John Grea
1-5	Donald & Debra Dadd
1-5.1	Donald & Debra Dadd
1-6	Douglas Tinsler
1-7	Douglas Tinsler
1-13	Robert & Tonya McNemar
1-14	Charles & Shannon Hardbarger
1-14.1	WV DOT
1-15	Donnie Hasey
1-16	Jordan Lanham
1-17.2	Louis & Rachel Flanigan
1-17.3	Louis & Rachel Flanigan
1-31	Edwin Bartlett & Teresa Reed
1-32	Robert Amos
1-32.1	WV DOT
1-33	Terry Wallace
1-34	Glenna Amos
1-34.1	Glenna Amos
1-35	Carrie Lee
1-36	Glenn & Susan Shive

WATER WELLS	
W1	S 86°08' E 1093.5'
W2	S 81°22' W 1624.9'
W3	S 75°32' W 1309.4'
W4	S 71°11' W 1368.5'
W5	S 66°20' W 914.7'
W6	S 65°21' W 1193.6'
W7	N 74°39' E 1936.7'



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 # 25-028WA

DRAWING # MANTLE1H

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 02/12/26

OPERATOR'S WELL# MANTLE UNIT #1H

47 - 085 - 10573

STATE COUNTY PERMIT

PAD LAYOUT

NOT TO SCALE

WILLOW UNIT 1H

STARBOARD UNIT 1H

MANTLE UNIT 1H

MANTLE UNIT 2H

MANTLE UNIT 3H

MANTLE UNIT 4H

MANTLE UNIT 5H

MANTLE UNIT 6H

MANTLE UNIT 7H

MANTLE UNIT 8H

MANTLE UNIT 9H

MANTLE UNIT 10H

MANTLE UNIT 11H

MANTLE UNIT 12H

MANTLE UNIT 13H

MANTLE UNIT 14H

MANTLE UNIT 15H

MANTLE UNIT 16H

MANTLE UNIT 17H

MANTLE UNIT 18H

MANTLE UNIT 19H

MANTLE UNIT 20H

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 258,303ft E: 1,586,629ft
LAT: 39°11'59.93" LON: 80°57'31.18"
BOTTOM HOLE INFORMATION:
N: 242,264ft E: 1,590,521ft
LAT: 39°09'22.04" LON: 80°56'38.47"
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: 4,338,979m E: 503,584m
BOTTOM HOLE INFORMATION:
N: 4,334,112m E: 504,851m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,234,753ft E: 1,652,128ft
POINT OF ENTRY INFORMATION:
N: 14,233,985ft E: 1,651,115ft
BOTTOM HOLE INFORMATION:
N: 14,218,787ft E: 1,656,285ft

LESSOR

1	EDITH LAYTON
2	KENNETH B. PERRINE AND PATRICIA PERRINE
3	KENNETH B. PERRINE AND PATRICIA PERRINE
4	JOSEPH A. HOWARD
5	JAMES M. HOWARD AND HELEN HOWARD ET AL
6	DONZEL E. BETTS, ET UX
7	ROBERT GUY AMOS, ET AL
8	LORA KATHRYN ADAMS
9	LORA KATHRYN ADAMS
10	LORA KATHRYN ADAMS
11	DONNA B. LEASEBURG
12	KENNY D. WESTFALL AND BRIANA WESTFALL, JTWS
13	KENNY D. WESTFALL AND BRIANA WESTFALL, JTWS
14	ALISON A. CRANE
15	DONALD R. REYNOLDS
16	C.O. WISE AND MABEL WISE ET AL
17	EMORY C. CURRY, ET UX
18	THERESA A. SWATHWOOD
19	ROBERT E. BELL
20	ROGER GEORGE AND BETTY GEORGE
21	W.S. CHAPMAN AND JENNIE M. CHAPMAN
22	JOHN GOFF AND HILDA M. GOFF
23	PATTY W. COX AND BILLIE C. COX
24	JOHN GOFF
25	MELVIN C. BRAMER
26	JAY K. GOFF AND EDITH A. GOFF
27	JOE GOFF ET AL
28	JOE GOFF AND RUTH B. GOFF
29	HURLEY D. ROBINSON AND CLARICE V. ROBINSON
30	W. F. COX, ET UX
31	JOE W. GOFF AND RUTH B. GOFF
32	JOE W. GOFF AND RUTH B. GOFF
33	JOE W. GOFF AND RUTH B. GOFF
34	ROY BEE AND THEO BEE
35	CALLA E. BRITTON
36	HARRIET M. JARVIS, ET AL
37	ESTHER HAYHURST
38	SARAH C. HOWARD
39	JOYCE ANN HOWARD
40	PATTY LOU COX
41	DORIS E. WINDLE AND PAULA C. MULINEX



NOTE
NO OCCUPIED DWELLINGS OR BUILDINGS
TWO THOUSAND FIVE HUNDRED (2,500)
SQUARE FEET OR LARGER USED TO HOUSE
OR SHELTER DAIRY CATTLE OR POULTRY
HUSBANDRY ARE LOCATED WITHIN SIX
HUNDRED FEET OF THE

REFERENCES

STAKE/
NAIL, SET
N 13°33' E
235.3'
WELL
NO. 1H
226.5'
S 33°00' E
STAKE/
NAIL, SET

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
3: Kenneth B. Perine and Patricia Perine Lease			
Kenneth B. Perine and Patricia Perine	Warren R. Haught	1/8	0128/0339
Warren R. Haught	ANJO Investments Inc	Assignment	0198/0310
ANJO Investments Inc	710 Corporation	Assignment	0194/0342
710 Corporation	Whittle Corporation	Assignment	0234/0182
Whittle Corporation	Haught Energy Corporation	Assignment	0262/0474
Haught Energy Corporation	Burning Springs Energy, LLC	Assignment	0308/0796
Burning Springs Energy, LLC	HG Energy II Appalachia, LLC	Assignment	0316/0372
HG Energy II Appalachia, LLC	Antero Resources Corporation	Assignment	0334/0368
2: Kenneth B. Perine and Patricia Perine Lease			
Kenneth B. Perine and Patricia Perine	Warren R. Haught	1/8	0128/0341
Warren R. Haught	Cortney Co. Inc	Assignment	0171/0733
Cortney Co. Inc	Petro Southern Inc	Assignment	0171/0729
Petro Southern Inc	Shanley Oil Company	Assignment	0186/0022
Shanley Oil Company	Black Petroleum Corporation	Assignment	0191/0133
Black Petroleum Corporation	Apple Corporation	Assignment	0203/0760
Apple Corporation	Shanley Oil Company	Assignment	0210/0025
Shanley Oil Company	Apple Corporation	Assignment	0210/0014
Apple Corporation	Shanley Oil Company	Assignment	0255/0262
Shanley Oil Company	DWD Resources	Assignment	0255/0303
DWD Resources	Whittle Corporation	Assignment	0255/0508
Whittle Corporation	Burning Springs Energy, LLC	Assignment	0308/0796
Burning Springs Energy, LLC	HG Energy II Appalachia, LLC	Assignment	0316/0372
HG Energy II Appalachia, LLC	Antero Resources Corporation	Assignment	0360/0078
3: Kenneth B. Perine and Patricia Perine Lease			
Kenneth B. Perine and Patricia Perine	Warren R. Haught	1/8	0128/0339
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ANJO Investments Inc	710 Corporation	Assignment	0194/0342
710 Corporation	Whittle Corporation	Assignment	0234/0182
Whittle Corporation	Haught Energy Corporation	Assignment	0262/0474
Haught Energy Corporation	Burning Springs Energy, LLC	Assignment	0308/0796
Burning Springs Energy, LLC	HG Energy II Appalachia, LLC	Assignment	0316/0372
HG Energy II Appalachia, LLC	Antero Resources Corporation	Assignment	0334/0368
1: Edith Layton Lease			
Edith Layton	Dale Wolfe	1/8	0133/0442
Dale Wolfe	Allstate Energy Corporation	Assignment	0133/0583
Allstate Energy Corporation	Antero Resources Corporation	Assignment	0280/0668
6: Donzel E. Betts, Et Ux Lease Docket/Cause # 457-594			
Donzel E. Betts, Et Ux	Warren R. Haught	1/8	0123/0762
Warren R. Haught	R&R Associates LTD	Assignment	0128/0548
R&R Associates LTD	Ted B. Law, Jr.	Assignment	0208/0650
Ted B. Law, Jr.	Trans Energy, Inc.	Assignment	0227/0802
Trans Energy, Inc.	Millennium Energy LLC	Assignment	0228/0624
Millennium Energy LLC	Antero Resources Corporation	Assignment	Pooled Tract
9: Lora Kathryn Adams Lease			
Lora Kathryn Adams	Antero Resources Corporation	1/8+	0336/0473

RECEIVED
Office of Oil and Gas
APR 15 2026
WV Department of
Environmental Protection

04/24/2026

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

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- (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
6: Donzel E. Betts, Et Ux Lease Docket/Cause # 457-594			
Donzel E. Betts, Et Ux	Warren R. Haught	1/8	0123/0762
Warren R. Haught	R&R Associates LTD	Assignment	0128/0548
R&R Associates LTD	Ted B. Law, Jr.	Assignment	0208/0650
Ted B. Law, Jr.	Trans Energy, Inc.	Assignment	0227/0802
Trans Energy, Inc.	Millennium Energy LLC	Assignment	0228/0624
Millennium Energy LLC	Antero Resources Corporation	Assignment	Pooled Tract
7: Robert Guy Amos, Et Al Lease			
Robert Guy Amos, Et Al	Alton Skinner	1/8	0132/0521
Alton Skinner	Alton Skinner II, Et Al	Will	0216/0391
Alton Skinner II, Et Al	Crystal G. Skinner and Desari S. Garrett	Assignment	0245/0010
Crystal G. Skinner and Desari S. Garrett	DC Petroleum, Inc.	Assignment	0218/0250
DC Petroleum, Inc.	Antero Resources Corporation	Assignment	0362/0529
19: C.O. Wise and Mabel Wise Et Al Lease			
C.O. Wise and Mabel Wise Et Al	C.A. Stricklin	1/8	0098/0125
C.A. Stricklin	Big A Oil Corporation	Assignment	0152/0591
Big A Oil Corporation	Lamar Oil and Gas Company	Assignment	0196/0320
Lamar Oil and Gas Company	Antero Resources Corporation	Assignment	0359/0001
20: Emory C. Curry, Et Ux Lease Docket/Cause # 457-594			
Emory C. Curry, Et Ux	North Hills Investment Company	1/8	0211/0541
North Hills Investment Company	J.F. Deem Oil and Gas LLC	Assignment	0252/0232
J.F. Deem Oil and Gas LLC	Antero Resources Corporation	Assignment	Pooled Tract
21: Theresa A. Swathwood Lease			
Theresa A. Swathwood	Antero Resources Corporation	1/8+	0355/0691
22: Robert E. Bell Lease			
Robert E. Bell	SEP Appalachia, LLC	1/8+	0354/0328
SEP Appalachia, LLC	Antero Resources Corporation	Agreement	0366/0524
23: Roger George and Betty George Lease			
Roger George and Betty George	Eldon J. Haught	1/8	0128/0418
Eldon J. Haught	Allstate Energy Corporation	Assignment	0130/0178
Allstate Energy Corporation	Arthur P. D. Aoust	Assignment	0142/0652
Arthur P. D. Aoust	Allstate Energy Corporation	Assignment	0206/0415
Allstate Energy Corporation	Antero Resources Corporation	Assignment	0359/0979
39: W.S. Chapman and Jennie M. Chapman Lease			
W.S. Chapman and Jennie M. Chapman	Carnegie Natural Gas Company	1/8	0041/0040
Carnegie Natural Gas Company	Carnegie Production Company	Assignment	0288/0859
Carnegie Production Company	EQT Production Company	Name Change	WVSOS
EQT Production Company	Antero Resources Corporation	Assignment	0358/0729

04/24/2026

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
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- (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
41: Patty W. Cox and Billie C. Cox Lease			
Patty W. Cox and Billie C. Cox	Ronald Six	1/8	0224/0187
Ronald Six	Murvin & Meier Oil Co	Assignment	0224/0256
Murvin & Meier Oil Co	Antero Resources Appalachian Corporation	Assignment	0257/0110
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705
40: John Goff and Hilda M. Goff Lease			
John Goff and Hilda M. Goff	Kanawha Drilling Company Incorporated	1/8	0153/0276
Kanawha Drilling Company Incorporated	Waco Oil and Gas Company Incorporated	Assignment	0206/0042
Waco Oil and Gas Company Incorporated	Ashland Incorporated	Assignment	0221/0001
Ashland Incorporated	Ashland Exploration Incorporated	Name Change	0222/0169
Ashland Exploration Incorporated	All State Energy Corporation	Assignment	0222/0809
All State Energy Corporation	Antero Resources Corporation	Assignment	0359/0979
42: John Goff Lease Docket/Cause # 457-594			
John Goff	Ferrell Prior	1/8	0130/0170
Ferrell Prior	Ken Matthews	Assignment	0130/0231
Ken Matthews	Rep-Aid Corporation	Assignment	0139/0791
Rep-Aid Corporation	Sandra Matthews	Assignment	0366/0469
Sandra Matthews	Antero Resources Corporation	Assignment	0367/0129
44: Jay K. Goff and Edith A. Goff Lease Docket/Cause # 457-594			
Jay K. Goff and Edith A. Goff	Prior Oil Company	1/8	0131/0319
Prior Oil Company	Waco Oil and Gas Company	Assignment	0206/0042
Waco Oil and Gas Company	Ashland, Inc.	Assignment	0221/0001
Ashland, Inc.	Ashland Exploration, Inc.	Assignment	0222/0169
Ashland Exploration, Inc.	Allstate Energy Corporation	Assignment	0222/0809
Allstate Energy Corporation	Antero Resources Corporation	Assignment	0316/0811
47: Hurley D. Robinson and Clarice V. Robinson Lease			
Hurley D. Robinson and Clarice V. Robinson	Vearl Summers	1/8	0129/0499
Vearl Summers	Amy C. Haught, nee Summers	Will	0045/0739
Amy C. Haught, nee Summers	Antero Resources Corporation	Partial Assignment	0358/0823
46: Joe Goff and Ruth B. Goff Lease			
Joe Goff and Ruth B. Goff	Ferrell Prior	1/8	0129/0818
Ferrell Prior	Waco Oil and Gas Company, Incorporated	Assignment	0206/0042
Waco Oil and Gas Company, Incorporated	Antero Resources Corporation	Assignment	0275/0233
49: Joe W. Goff and Ruth B. Goff Lease			
Joe W. Goff and Ruth B. Goff	Kanawha Drilling Company	1/8	0152/0246
Kanawha Drilling Company	David Tolle	Assignment	0151/0424
David Tolle	Cogeneration Corporation	Assignment	0151/0432
Cogeneration Corporation	Summers Petroleum Inc.	Assignment	0204/0325
Summers Petroleum Inc.	Ritchie Petroleum Corporation	Assignment	0223/0156
Ritchie Petroleum Corporation	Antero Resources Appalachian Corporation	Assignment	0260/0723
Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	0015/0705

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51: Joe W. Goff and Ruth B. Goff			
Joe W. Goff and Ruth B. Goff	Kanawha Drilling Company	1/8	0152/0246
Kanawha Drilling Company	David Tolle	Assignment	0151/0424
David Tolle	Cogeneration Corporation	Assignment	0151/0432
Cogeneration Corporation	Summers Petroleum Inc.	Assignment	0204/0325
Summers Petroleum Inc.	Ritchie Petroleum Corporation	Assignment	0223/0156
Ritchie Petroleum Corporation	Antero Resources Appalachian Corporation	Assignment	0260/0723
Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	0015/0705
52: Roy Bee and Theo Bee Lease			
Roy Bee and Theo Bee	W.H. Mossor	1/8	0085/0271
W.H. Mossor	TERM Energy Corporation	Assignment	0132/0314
TERM Energy Corporation	Ritchie Petroleum	Assignment	0253/1056
Ritchie Petroleum	Antero Resources Corporation	Assignment	0358/0814
53: Calla E. Britton Lease Docket/Cause # 457-594			
Calla E. Britton	James L. Goff	1/8	0155/0427
James L. Goff	Kanawha Drilling Company	Assignment	0156/2288
Kanawha Drilling Company	Tiara, Inc.	Assignment	0158/0238
Tiara, Inc.	Lamar Oil & Gas Company	Assignment	0194/0350
Lamar Oil & Gas Company	Optimist Oil and Gas Company, Inc.	Assignment	0199/0008
Optimist Oil and Gas Company, Inc.	Lamar Oil & Gas Company	Assignment	0284/0314
Lamar Oil & Gas Company	W. Kevin Snider, individually & Ritchie Petroleum Corporation	Assignment	0223/0587
W. Kevin Snider, individually & Ritchie Petroleum Corporation	Antero Resources Corporation	Assignment	0284/0522

*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.

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

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

04/24/2026

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
54: Harret M. Jarvis, Et Al Lease	Docket/Cause # 457-594			
	Harriet M. Jarvis, Et Al	Delaware Gas Company	1/8	0086/0057
	Delaware Gas Company	Consolidated Gas Supply Corporation	Assignment	0162/0124
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0169/0756
	Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	WV SOS
	CNG Transmission Corporation	Dominion Transmission, Inc.	Merger	WV SOS
	Dominion Transmission, Inc.	Consol Energy Holdings LLC XVI	Assignment	0251/0648
	Consol Energy Holdings LLC XVI	Consol Gas Company	Merger	0006/0576
	Consol Gas Company	CNX Gas Company	Merger	0006/0634
	CNX Gas Company	Noble Energy, Inc.	Assignment	0304/0287
	Noble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	0357/0398
	HG Energy II Appalachia, LLC	Antero Resources Corporation	Assignment	0357/0398

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Office of Oil and Gas

APR 15 2026

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: Tim Rady

Its: Senior Vice President of Land



April 14, 2026

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

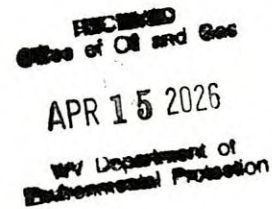
Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Minear Pad: Mantle Unit 1H (47-085-10573) and Mantle Unit 2H (47-085-10574) 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".

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

Enclosures

04/24/2026