

#### 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

### Friday, July 18, 2025 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for SHILOH UNIT 1H

47-095-02930-00-00

Lateral Extension/Forced Pooling

#### ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450

James A. Martin

Chief

Operator's Well Number: SHILOH UNIT 1H

Farm Name: JIMMY E & EARL P PATTERSON & LINDA LOU

U.S. WELL NUMBER: 47-095-02930-00-00

Horizontal 6A New Drill

Date Modification Issued: 07/18/2025

Promoting a healthy environment.

API NO. 47-095	_ 02930
OPERATOR WE	ELL NO. Shiloh Unit 1H MOD
Well Pad Nam	e: Mary Patterson Pad

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

1) Well Operator: Antero Resources Corporal 494507062 095 - Tyler Union Middlebourne
Operator ID County District Quadrangle
2) Operator's Well Number: Shiloh Unit 1H MOD Well Pad Name: Mary Patterson Pad
3) Farm Name/Surface Owner:
4) Elevation, current ground: 694.76' Elevation, proposed post-construction: 694.70'
5) Well Type (a) Gas X Oil Underground Storage Other
V
(b)If Gas Shallow X Deep Horizontal X
Horizontal X  6) Existing Pad: Yes or No Yes
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6300' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#
8) Proposed Total Vertical Depth: 6300' TVD
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 24000' MD /
11) Proposed Horizontal Leg Length: 13911.1' /
12) Approximate Fresh Water Strata Depths: 85', 185', 235'
13) Method to Determine Fresh Water Depths: 47-095-00081
14) Approximate Saltwater Depths: 718
15) Approximate Coal Seam Depths: None
16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?  Yes  No X  RECEIVED
Office of Oil and Gas
(a) If Yes, provide Mine Info: Name:  JUN 16 2025
1) It Unding 1 Depth:
9 7500 Seam: Environmental Protection
Seam:  WV Department of Environmental Protection  Solvent Solv

API NO. 47- 095 \_ 02930

OPERATOR WELL NO. Shiloh Unit 1H MOD
Well Pad Name: Mary Patterson 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	H-40	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#	2500	2500 /	CTS, 1018 Cu. Ft.
Intermediate						1	
Production	5-1/2"	New	P-110	23#	24000	24000	5120 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	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A/L	<b>~</b> 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	RECEIVED
Sizes:	N/A	Office of Oil and Gas  JUN 1 6 2025
Depths Set:	N/A	WV Department of Environmental Protection

API	NO.	47-	095	-	02930

OPERATOR WELL NO. Shiloh Unit 1H MOD Well Pad Name: Mary Patterson Pad

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.

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): 32.49 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 17.05 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

RECEIVED
Office of Oil and Gas

JUN 16 2025 WV Department of

**Environmental Protection** 

#### 25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

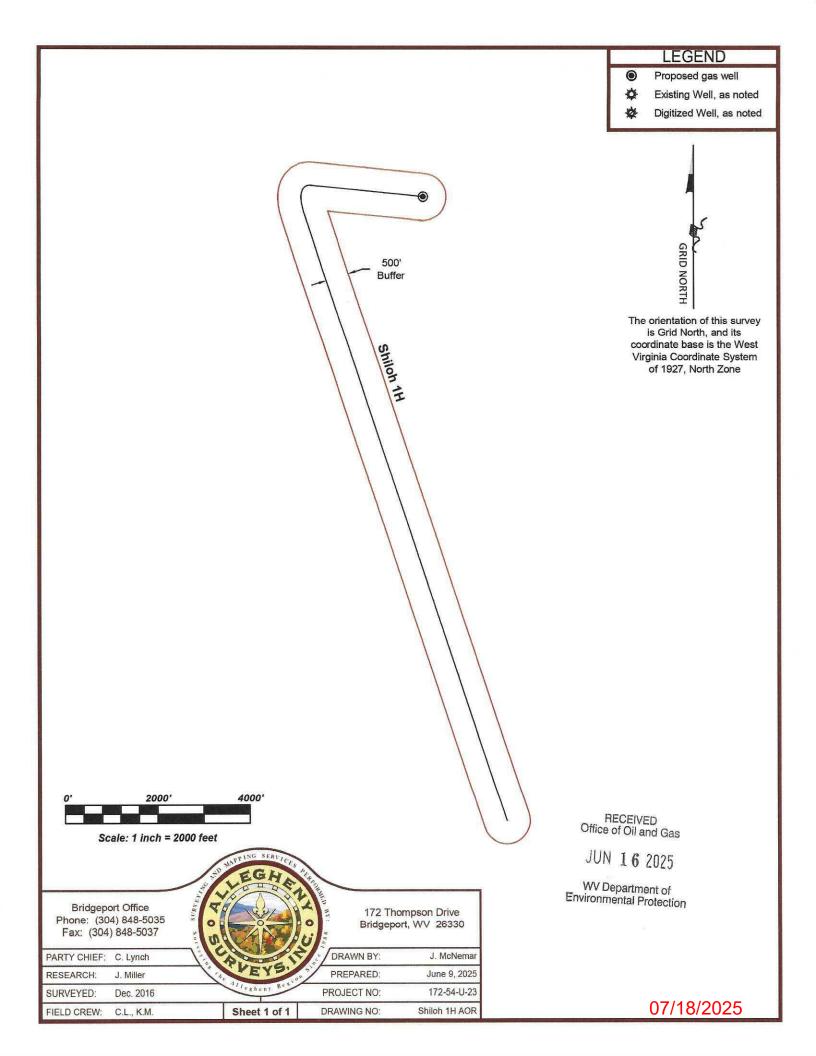
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

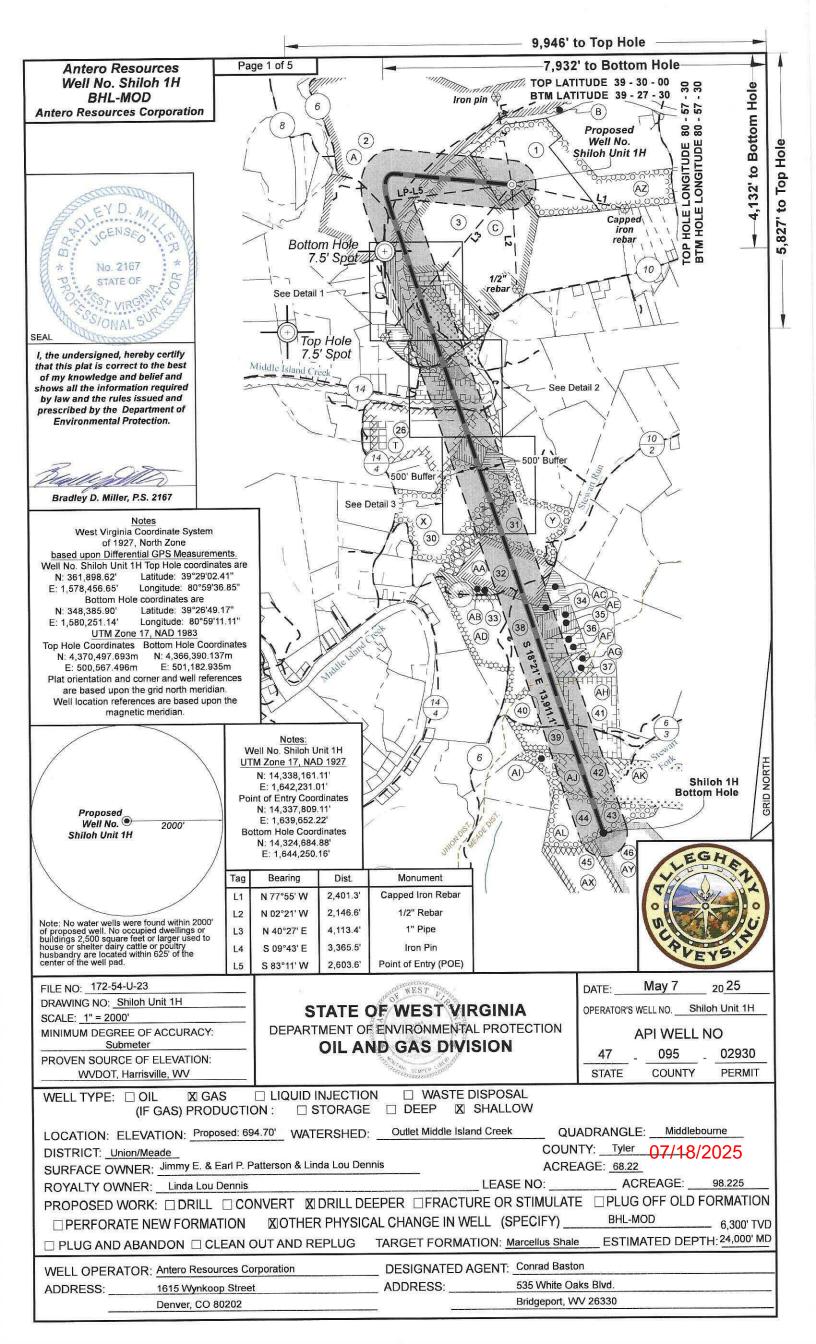
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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.

07718/2025 Stephen Mccoy Digitally signed by Stephen Mccoy Date: 2025.06.09 10:14:51 -04'00'



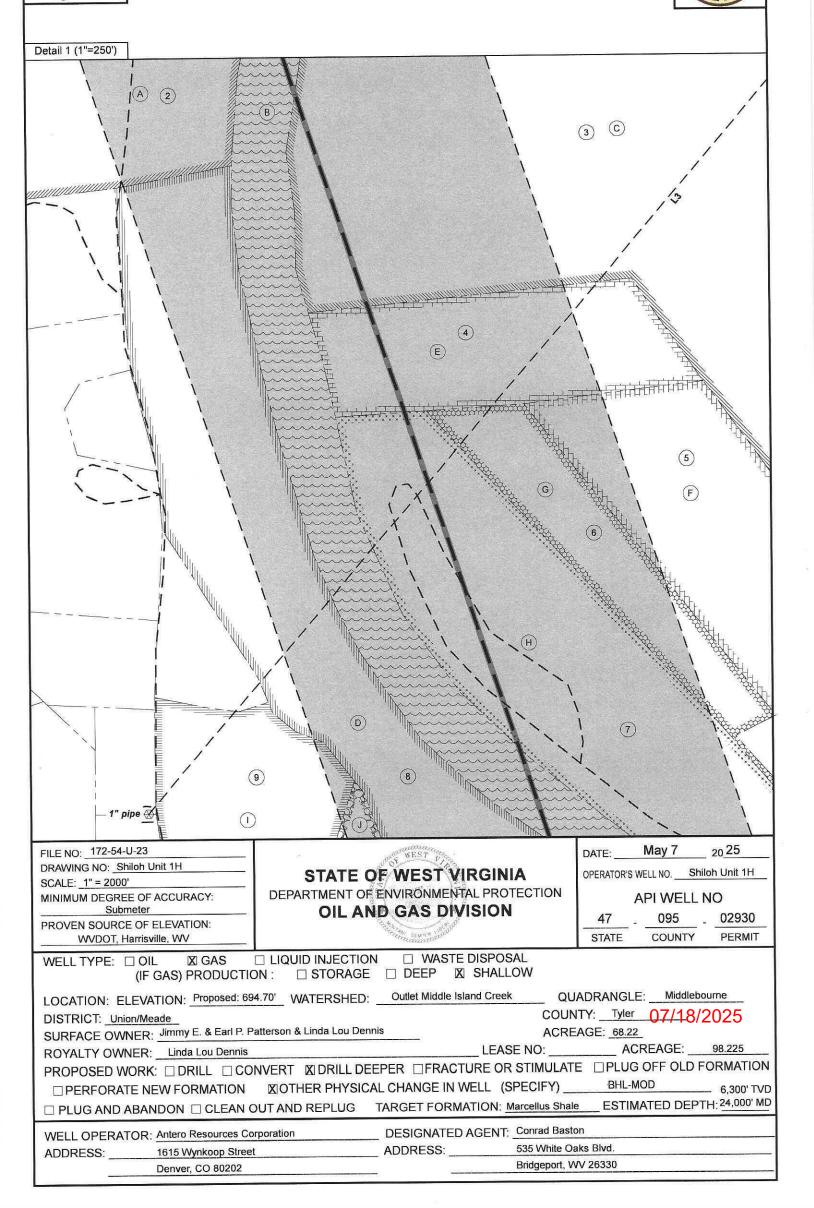


Antero Resources Well No. Shiloh 1H BHL-MOD

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Antero Resources Corporation

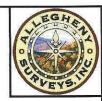
Page 2 of 5



Antero Resources Well No. Shiloh 1H BHL-MOD Antero Resources Corporation Page 3 of 5 Detail 2 (1"=250') (8) (16) (18) (17) N P 22 (19) (23) (R) (S) (20) (25) (27) (26) (U) (T) FILE NO: 172-54-U-23 May 7 20 25 DATE: WEST DRAWING NO: Shiloh Unit 1H STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Shiloh Unit 1H SCALE: 1" = 2000' DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: **API WELL NO** OIL AND GAS DIVISION Submeter 095 02930 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV COUNTY ☐ LIQUID INJECTION ☐ WASTE DISPOSAL X GAS WELL TYPE: □ OIL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP X SHALLOW LOCATION: ELEVATION: Proposed: 694.70' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne DISTRICT: Union/Meade SURFACE OWNER: Jimmy E. & Earl P. Patterson & Linda Lou Dennis ACREAGE: 68.22 ROYALTY OWNER: Linda Lou Dennis LEASE NO: ACREAGE: \_ PROPOSED WORK: ☐ DRILL ☐ CONVERT MIDRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION **BHL-MOD** XIOTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_ ☐ PERFORATE NEW FORMATION 6,300' TVD ESTIMATED DEPTH: 24,000' MD TARGET FORMATION: Marcellus Shale □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG DESIGNATED AGENT: Conrad Baston WELL OPERATOR: Antero Resources Corporation 535 White Oaks Blvd. ADDRESS: ADDRESS: 1615 Wynkoop Street Bridgeport, WV 26330 Denver, CO 80202

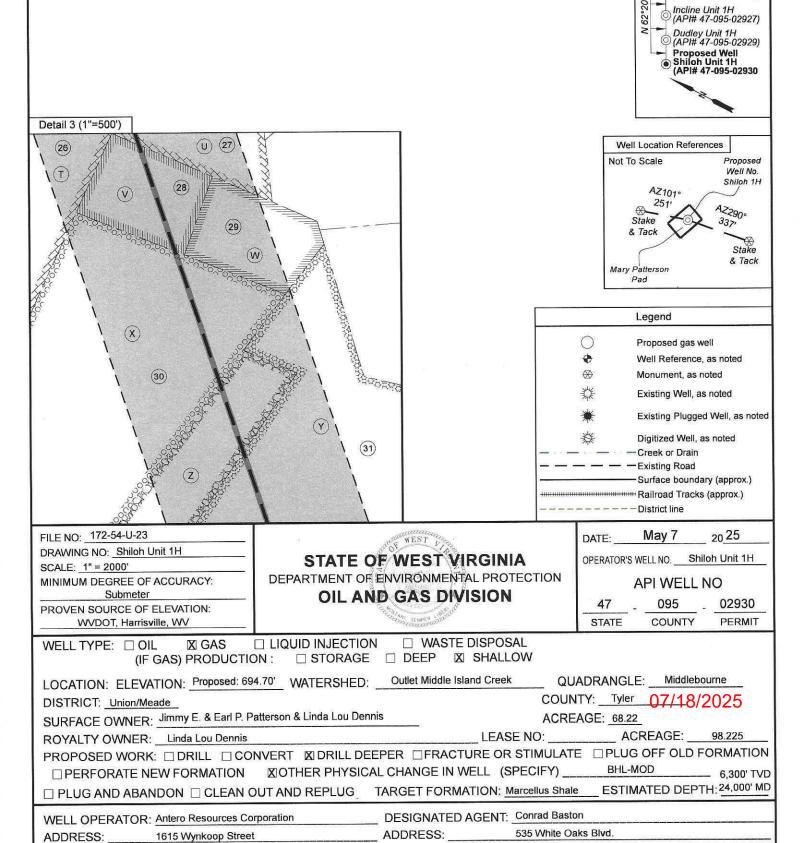
Antero Resources Well No. Shiloh 1H BHL-MOD Antero Resources Corporation

Page 4 of 5



Wellhead Layout (NTS)

Conaway Unit 2H (API# 47-095-02926) Conaway Unit 1H (API# 47-095-02925)



Denver, CO 80202

Bridgeport, WV 26330

Antero Resources Corporation

Page 5 of 5



Tag	Lessor			
Tract A	Gregory L. Michael & Shirley F. Michael, h/w			
Tract B	WVDNR			
Tract C	Ted A. & Darlene K. Koerber, JTWROS			
Tract D	Michael Alison Michaels			
Tract E	Arlington Cabins, Inc.			
Tract F	Paul Thomas Gist, Jr. & Patricia Jo Gist, JTWROS			
Tract G	Linda Sue Hayes			
Tract H	Arlington Cabins, Inc.			
Tract I	David Paul Resources, LLC			
Tract J	David Paul Resources, LLC			
Tract K	Michael A. Michaels			
Tract L	WVDOT, Division of Highways			
Tract M	WVDOT, Division of Highways			
Tract N	Larry A. Hayes & Linda S. Hayes JTWROS			
Tract P	Linda Sue Hayes			
Tract Q	Antero Minerals, LLC			
Tract R	John Ladie			
Tract S	Allen R. Ladie			
Tract T	Ridgetop Appalachia, LLC			
Tract U	Daniel A. Maxwell			
Tract V	Frank L. Fluharty, et ux			
Tract W	BC Farms Investments, LLC			
Tract X	Kimberly Elain Morton			
Tract Y	James Arthur Watson & Angel C. Watson			
Tract Z	Robert M. Starkey			
Tract AA	Martha Werner, AIF for Anna M. Brown			
Tract AB	Michael Ray Martin & Marchel Lynn Martin, JTWRO			
Tract AC	Catherine E. Eddy			
Tract AD	Ann W. Clutter			
Tract AE	Kevin Ray Roberts			
Tract AF	Melvia J. Fox			
Tract AG	Kevin Ray Roberts			
Tract AH	Larry D. McMullen			
Tract Al	Ridgewood Development, LLC			
Tract AJ	Nancy P. Bailey			
Tract AK	Nancy P. Bailey			
Tract AL	Nancy P. Bailey			
Tract AX	Roy D. Hadley			
Tract AY	Janie DeNoon Trust			
Tract AZ	Linda Lou Dennis			

		Tyler County		
No.	TM / Par	Owner	Bk/Pg	Ac.
1	9/8	Jimmy E. Patterson, et al	OR49 / 645	68.22
2	9/3	Gregory L. & Shirley F. Michael	357 / 131	293.00
3	9/7.2	Ted A. & Darlene K. Koerber	301 / 157	112.09
4	9/7.4	Arlington Cabins, Inc.	333 / 200	5.66
5	9/7.1	Patricia J. & Paul T. Gist, Jr.	349 / 197	11.03
6	9/39	Teddy A. Kemp	OR183 / 560	5.59
7	9/38	Arlington Cabins, Inc.	296 / 16	13.80
8	9/28	Michael Michaels	OR264 / 754	20.00
9	9 / 26.10	Richard D. & Patricia G. Munson	399 / 711	5.63
10	9 / 26.11	Richard D. & Patricia G. Munson	399 / 711	4.16
11	9 / 38.1	WV Department of Transportation	332 / 10	0.49
12	9/29	Martha Michaels	163 / 529	0.79
13	9 / 29.1	WV Department of Transportation	331 / 432	0.20
14	9/34	Linda S. Hayes	377 / 713	0.30
15	9 / 33.1	Larry A. & Linda S. Hayes	223 / 135	0.23
16	9/31.1	Larry A. & Linda S. Hayes	251 / 261	0.20
17	9/31	Larry A. & Linda S. Hayes	310 / 518	0.41
18	9/30	Larry A. & Linda S. Hayes	335 / 176	0.56
19	9 / 26.6	Betty J. Renzella	262 / 180	8.00
20	9/36	William A. Ladie, et al	W49 / 465	7.19
21	9/33	Larry A. & Linda S. Hayes	186 / 265	0.58
22	9/35	Linda S. Hayes	378 / 613	2.00
23	9/37	Allen R. & David R. Ladie	317 / 289	9.15
24	13 / 18	Robert W. & Kimberly D. Maxwell	652/319	0.43
25	13 / 13	Jackie E. Peckens & Melissa D. Cox		30.00
26	13/14	Norman Todd Estate	582 / 593	27.93
27	13/19	Kimberly D. & Robert W. Maxwell	334 / 17	11.16
28	13/16	Patricia N. Cline	577/98	6.50
29	13/17	Laura E. Wilcox	207 / 249	6.50
30	13/30	Robert M. Starkey	353 / 629	82.18
31	13/28	James A. Watson	338 / 132	41.90
32	13/29	Aaron C. & Kelly J. Cecil	345 / 569	40.00
33	1/1.6	Michael R. & Marchel L. Martin	359 / 108	8.05
34	1/7.2	Carolyn G. Flannery	OR169 / 756	8.83
35	1/7.3	Kevin R. Roberts	327 / 806	8.82
36	1/7.4	Christopher & Heather Fox	AR54/349	8.82
37	1/7	Michael L. & Jason W. Roberts	327 / 893	8.82
38	1/1.5	Mark R. & Marie Dillaman	286 / 16	87.30
39	1/1.4	James P. Flesher	643 / 710	20.00
40	1/1	Gary W. & Shawn McDonald	344 / 429	14.65
41	1/1.2	Gary W. & Barbara A. Whitley	270 / 263	42.00
42	1/5	Nancy P. Bailey Flesher	334 / 284	84.42
43	4/1.1	Nancy P. Bailey Flesher	334 / 284	44.25
		Janie DeNoon Trust &	120500000000000000000000000000000000000	
44	4/1	William S. DeNoon Trustee	319 / 135	44.24
45	4/6	Coastal Lumber Company	301 / 131	36.00
46	4/1	WSD Properties, LLC	463 / 451	35.50

FILE NO: 172-54-U-23

DRAWING NO: Shiloh Unit 1H

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

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

WEST

DATE:	May 7	<sub>20</sub> 25
OPERATOR'S	WELL NO	Shiloh Unit 1H
	API WE	LL NO
47	095	_ 02930
STATE	COUN	TY PERMIT

WELL TYPE: ☐ OIL	[1947]		
LOCATION: ELEVATION: Proposed: 694.70' WATERSHED	Outlet Middle Island Creek	QUADRANGLE:	
DISTRICT: Union/Meade		COUNTY:Tyler	_07/18/2025
SURFACE OWNER: Jimmy E. & Earl P. Patterson & Linda Lou Der	nnis	ACREAGE: 68.22	
ROYALTY OWNER: Linda Lou Dennis	LEASE	NO: ACR	REAGE:98.225
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☑ DRILL DE	EEPER  FRACTURE OR S	STIMULATE PLUG	OFF OLD FORMATION
□ PERFORATE NEW FORMATION ■OTHER PHYSIC	CAL CHANGE IN WELL (SP	ECIFY)BHL-MC	0D 6,300' TVD
$\square$ PLUG AND ABANDON $\square$ CLEAN OUT AND REPLUG	TARGET FORMATION: Ma	rcellus Shale ESTIMA	TED DEPTH: 24,000' MD
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AGENT: _	Conrad Baston	
ADDRESS: 1615 Wynkoop Street	ADDRESS:5	35 White Oaks Blvd.	
Denver, CO 80202	E	ridgeport, WV 26330	

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

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

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
AZ: Linda Lou Dennis Lease Linda Lou Dennis	Antero Resources Corporation	1/8+	234/5
C: Ted A. & Darlene K. Koerber, JTWROS Lease Ted A. & Darlene K. Koerber, JTWROS	Antero Resources Corporation	1/8+	234/13
B: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	339/518
A: Gregory L. Michael & Shirley F. Michael, h/w Lease			
Gregory L. Michael & Shirley F. Michael, h/w SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	251/87 <b>350/586</b>
B: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	339/518
C: Ted A. & Darlene K. Koerber, JTWROS Lease Ted A. & Darlene K. Koerber, JTWROS	Antero Resources Corporation	1/8+	234/13
/ E: Arlington Cabins, Inc. Lease Arlington Cabins, Inc	Antero Resources Corporation	1/8+	234/21
H: Arlington Cabins, Inc. Lease Arlington Cabins, Inc.	Antero Resources Corporation	1/8+	234/21
B: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	234/21
D: Michael Alison Michaels Lease Michael Alison Michaels	Antero Resources Corporation	RECEIVED Office of Oil and Gas	270/14
Michael A. Michaels Lease Michael A. Michaels	Antero Resources Corporation	JUN 1 6 2025	311/251
L: WVDOT, Division of Highways Lease WVDOT, Division of Highways	Antero Resources Corporation	WV Department of Environmental Protection	357/595
K: Michael A. Michaels Lease Michael A. Michaels	Antero Resources Corporation	1/8+	311/251
N: Larry A. Hayes & Linda S. Hayes JTWROS  Lease  Larry A. Hayes & Linda S. Hayes, JTWROS	Antero Resources Corporation	1/8+	349/529
O: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8+	185/98

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
P: Linda Sue Hayes Lease Linda Sue Hayes	Antero Resources Corporation	1/8+	302/110
S: Allen R. Ladie Lease Allen R. Ladie	Antero Resources Corporation	1/8+	306/70
B: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	339/518
T: Ridgetop Appalachia, LLC Lease Ridgetop Appalachia, LLC	Antero Resources Corporation	1/8+	308/794
U: Daniel A. Maxwell Lease Daniel A. Maxwell	Antero Resources Corporation	1/8+	323/318
V: Frank L. Fluharty, et ux Lease Frank L. Fluharty, et ux	Antero Resources Corporation	1/8+	316/284
X: Kimberly Elain Morton Lease Kimberly Elain Morton	Antero Resources Corporation	1/8+	291/604
Z: Robert M. Starkey Lease Robert M. Starkey SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	244/622 <b>350/586</b>
Y: James Arthur Watson & Angel C. Watson Lease James Arthur Watson & Angel C. Watson SEP Exploration, LLC	SEP Exploration, LLC Antero Resources Corporation	1/8+ Agreement	244/566 <b>350/586</b>
AA: Martha Wemer, AIF for Anna M. Brown Lease		RECEIVED Office of Oil and Gas	
Martha Wemer, AIF for Anna M. Brown	Antero Resources Corporation	1/8+ JUN 1 6 2025	297/184
Ann W. Clutter Lease Ann W. Clutter	Antero Resources Corporation	1/8+ WV Department of Environmental Protection	507/553
AJ: Nancy P. Bailey <u>Lease</u> Nancy P. Bailey	Antero Resources Corporation	1/8+	331/322

<sup>\*</sup>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 07/18/2025

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

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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:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
AL: Nancy P. Bailey Lease				0
	Nancy P. Bailey	<b>Antero Resources Corporation</b>	1/8+	585/576

#### 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

RECEIVED Office of Oil and Gas

JUN 16 2025

WV Department of Environmental Protection

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 Ledy		
Its:	Senior Vice President of Land		

Page 4 of 4



June 13th, 2025

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Mr. Taylor Brewer 601 57<sup>th</sup> 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 modification for approved well on the Mary Patterson Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Shiloh Unit 1H well.

Attached you will find the following documents:

- > REVISED Form WW-6B, which shows the revised MD and Production Casing/Cement program
- > REVISED Form WW-6A1, which shows the leases we will be drilling into
- > REVISED Mylar Plat, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-7373.

Thank you in advance for your consideration.

Sincerely,

Carly Wren
Permitting Agent

Antero Resources Corporation

Enclosures

RECEIVED
Office of Oil and Gas

JUN 16 2025

WV Department of Environmental Protection