

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

Wednesday, July 31, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for Shenango Unit 1H

47-103-03658-00-00

Extended Lateral Length

ANTERO RESOURCES CORPORATION

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

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

Operator's Well Number: Shenango Unit 1H

Farm Name: Dallison Lumber, Inc.

U.S. WELL NUMBER: 47-103-03658-00-00

Horizontal 6A New Drill

Date Modification Issued: 7/31/2024

Promoting a healthy environment.

API NO. 47-103	_ 03658	
OPERATOR WE	LL NO.	Shenango Unit 1H MOD
Well Pad Name	e Galmis	sh Pad

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

1) Well Operator: Antero Resource	es Corpora 494507062	103 - Wetze Green	Pine Grove 7.5'
	Operator ID	County District	Quadrangle
2) Operator's Well Number: Shenar	go Unit 1H MOD Well	Pad Name: Galmish Pad	
3) Farm Name/Surface Owner: Dall	son Lumber Inc. Public F	Road Access: McKimmie R	idge Road
4) Elevation, current ground: As-B	ilt 1160.7 Elevation, propos	ed post-construction:	
5) Well Type (a) Gas X	Oil U	nderground Storage	
Other			
(b)If Gas Shallow	X Deep		-
Horizon	al X		
6) Existing Pad: Yes or No Yes			
7) Proposed Target Formation(s), De		-	
Marcellus Shale: 7600' TVD, Anticip	ated Thickness- 55 feet, Asso	ociated Pressure- 2850#	
8) Proposed Total Vertical Depth:	600' TVD		
9) Formation at Total Vertical Depth	Marcellus		
10) Proposed Total Measured Depth	29000' MD		
11) Proposed Horizontal Leg Length	17,547' *Open to mod	lification at a later date	
12) Approximate Fresh Water Strata	Depths: 45', 130'		
13) Method to Determine Fresh Wat	er Depths: 47103025550000 Offse	t 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	oid (coal mine, karst, other): None Anticipated	
17) Does Proposed well location condirectly overlying or adjacent to an a		No X	
(a) If Yes, provide Mine Info: Na	me:		
	oth:		
Se	ım:		
Ov	ner:		

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7- 98/02/2024

API NO. 47- 103 _ 03658

OPERATOR WELL NO. Shenango 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#	29000'	29000'	CTS, 6380 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	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	

Page 2 of 3

08/02/2024

OPERATOR WELL NO. Shenango Unit 1H MOD
Well Pad Name: Galmish Pad

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

Drill a new horizontal shallow well into the Marcellus Shale.

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

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 64.40 acres
- 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.

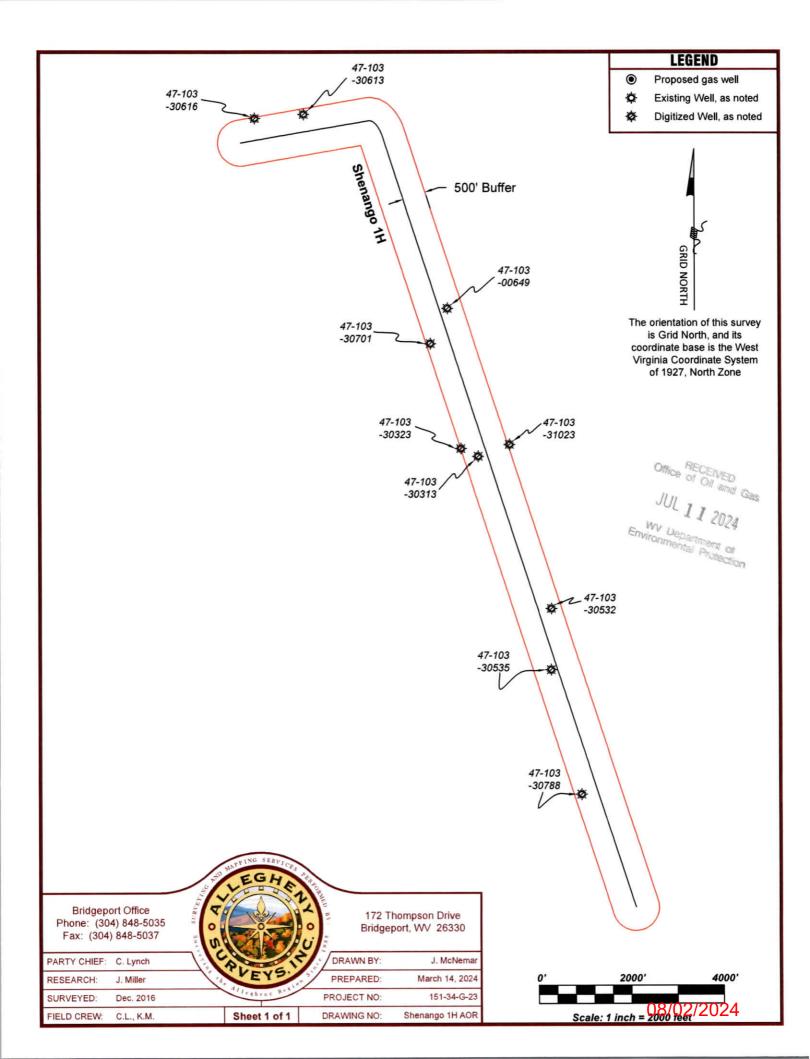
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

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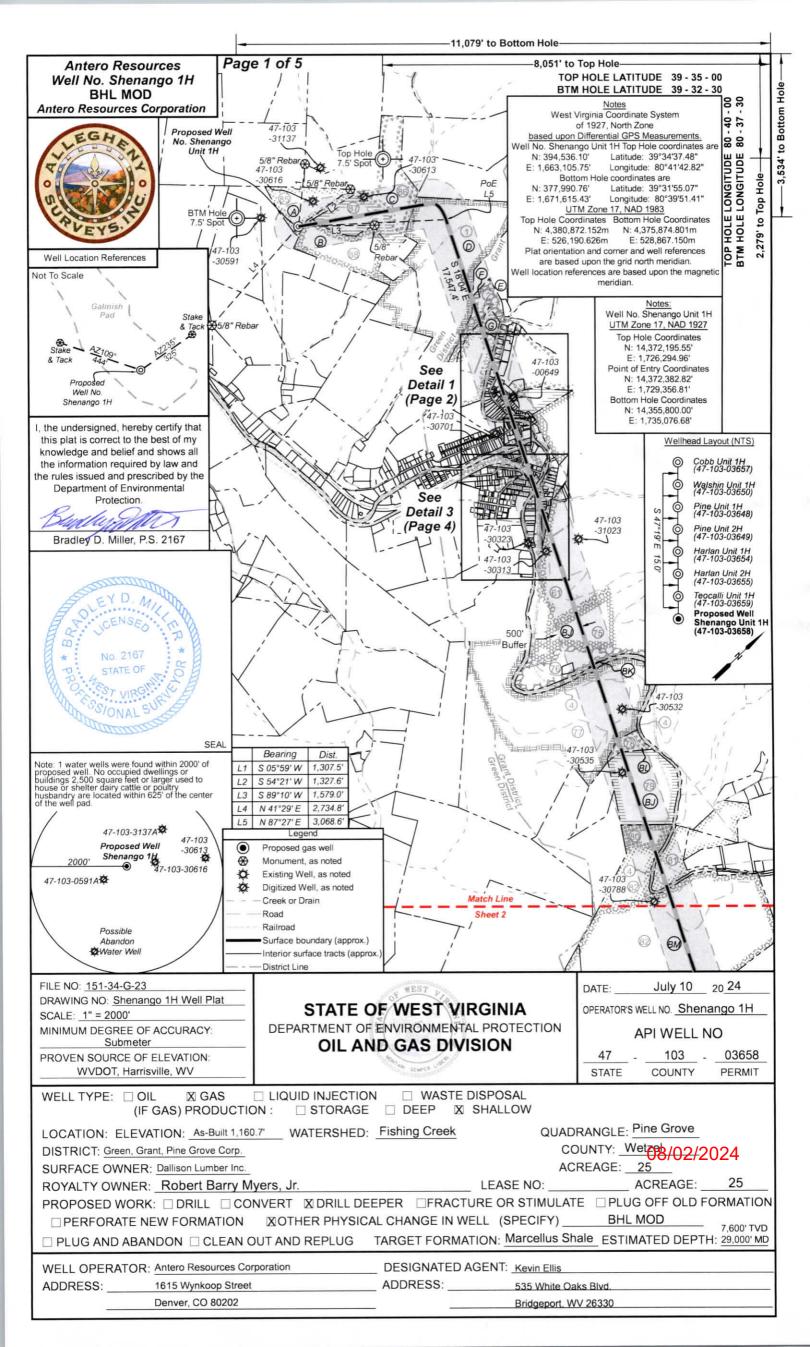
08/02/2024

7-17-24



UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103306160000	J W HAINES 1	4850	UNKNOWN	UNKNOWN	2,891		Gordon Stray, Gordon	Weir, Benson, Alexander
47103306130000	LUTHER POSTLETHWAIT 1	6024	UNKNOWN	UNKNOWN	2,742		Big Injun, Gordon Stray, Fourth	Weir, Benson, Alexander
47103006490000	J MORGAN	16	DIVERSIFIED PRODUCTION LLC	CONSOL GAS SUPLY CRP	2,720		Gordon	Weir, Benson, Alexander
47103307010000	S L JOLLIFFE 1	1694	PHILADELPHIA OIL	PITTSBURGH&W VA GAS	2,543	2530 - 2530	Gordon	Weir, Benson, Alexander
47103303230000	A C STONE	1	MILLER W H	MILLER W H				
47103303130000	T M & AMANDA STONE	1	UNKNOWN	UNKNOWN				
47103310230000	T M STONE	5	SOUTH PENN OIL	SOUTH PENN OIL	1,712		- O my san y san y	Weir, Benson, Alexander
47103305350000	L C LIEVTZ 1	3250	UNKNOWN	UNKNOWN	2,715		Big Injun, Gordon Stray, Gordon	Weir, Benson, Alexander
47103305320000	F M WATSON	1020	ALL PENN OIL & GAS	ALL PENN OIL & GAS	2,903	2690 - 2710		Weir, Benson, Alexander
47103307880000	AMOS J LOWE	685	HOPE NATURAL GAS	HOPE NATURAL GAS	2,562		Gordon Stray, Gordon	Weir, Benson, Alexander

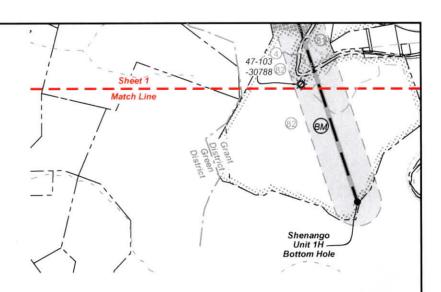


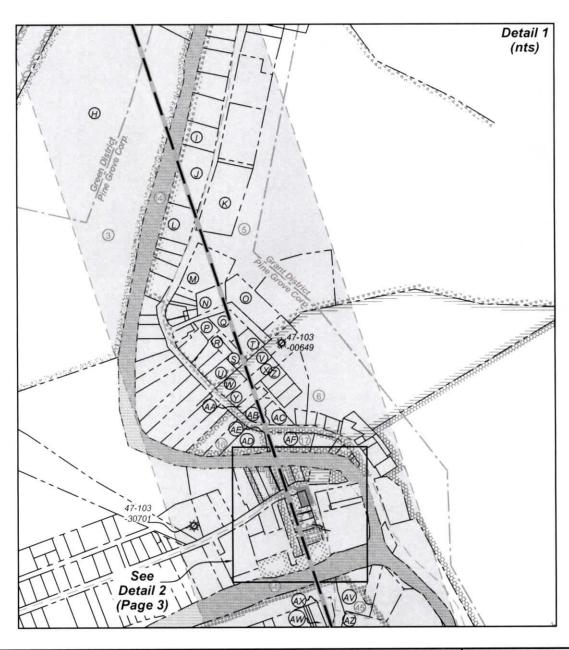


Antero Resources Well No. Shenango 1H BHL MOD Antero Resources Corporation



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FILE NO: 151-34-G-23

DRAWING NO: Shenango 1H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

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

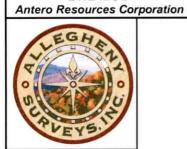
DATE: July 10 20 24

OPERATOR'S WELL NO. Shenango 1H

API WELL NO

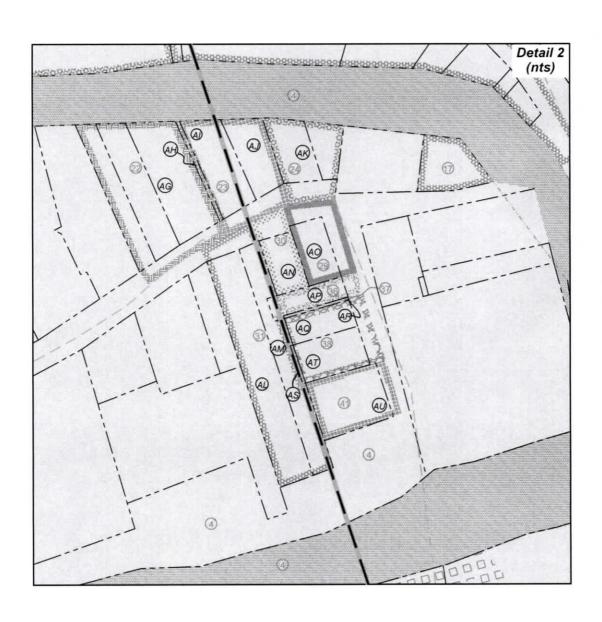
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV	SEMPER SEMPER SELECT		STATE C	OUNTY	PERMIT
		E DISPOSAL X SHALLOW			
LOCATION: ELEVATION: As-Built 1,160	.7' WATERSHED: Fishing Creek		ANGLE: Pine		
DISTRICT: Green, Grant, Pine Grove Corp.		COL	JNTY: Weter	8/02/20	24
SURFACE OWNER: Dallison Lumber Inc.			EAGE: 25		
ROYALTY OWNER: Robert Barry M	yers, Jr.	LEASE NO:	ACF	REAGE:	25
PROPOSED WORK: DRILL CO					RMATION
\square PERFORATE NEW FORMATION					7,600' TVD
☐ PLUG AND ABANDON ☐ CLEAN C	OUT AND REPLUG TARGET FOR	MATION: Marcellus Sha	le_ESTIMATE	D DEPTH:	29,000' MD
WELL OPERATOR: Antero Resources Cor	poration DESIGNATE	D AGENT: Kevin Ellis			
ADDRESS: 1615 Wynkoop Street	ADDRESS: _	535 White Oaks	s Blvd.		
Denver, CO 80202		Bridgeport, WV	26330		

Antero Resources Well No. Shenango 1H BHL MOD Page 3 of 5



FILE NO: 151-34-G-23

Denver, CO 80202



DRAWING NO: Shenango 1H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Shenango 1H SCALE: 1" = 2000' DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO Submeter OIL AND GAS DIVISION 103 - 03658 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV COUNTY PERMIT WELL TYPE: □ OIL X GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ※ SHALLOW QUADRANGLE: Pine Grove LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek COUNTY: Wetzeb/02/2024 DISTRICT: Green, Grant, Pine Grove Corp. ACREAGE: 25 SURFACE OWNER: Dallison Lumber Inc. _ ACREAGE: ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: _ PROPOSED WORK: ☐ DRILL ☐ CONVERT MIDRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ MOTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 7.600' TVD □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,000' MD DESIGNATED AGENT: Kevin Ellis WELL OPERATOR: Antero Resources Corporation ADDRESS: _ ADDRESS: 1615 Wynkoop Street 535 White Oaks Blvd.

WEST

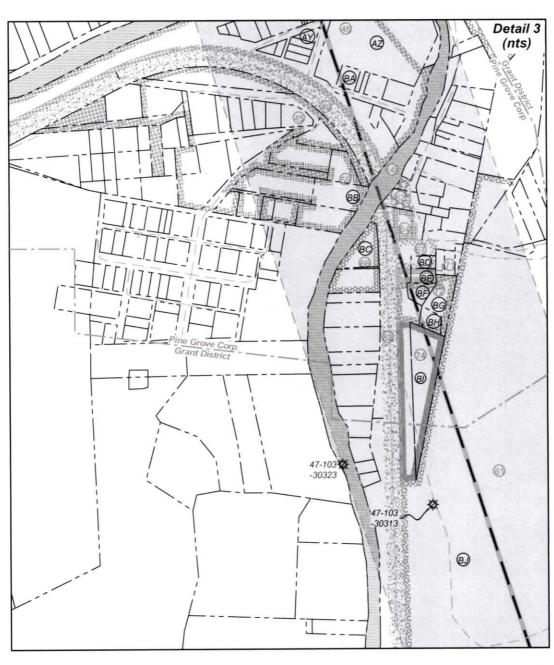
July 10 20 24

DATE:

Bridgeport, WV 26330

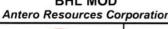
Antero Resources Well No. Shenango 1H BHL MOD Page 4 of 5





DATE: __ FILE NO: 151-34-G-23 July 10 20 24 DRAWING NO: Shenango 1H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Shenango 1H SCALE: 1" = 2000' DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO OIL AND GAS DIVISION Submeter 103 - 03658 47 PROVEN SOURCE OF ELEVATION: COUNTY WVDOT, Harrisville, WV **PERMIT** OIL 🛮 GAS 🗆 LIQUID INJECTION 🗀 WASTE DISPOSAL (IF GAS) PRODUCTION : 🗆 STORAGE 🗆 DEEP 🛣 SHALLOW WELL TYPE: □ OIL QUADRANGLE: Pine Grove LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek COUNTY: Weten 102/2024 DISTRICT: Green, Grant, Pine Grove Corp. ACREAGE: 25 SURFACE OWNER: Dallison Lumber Inc. ACREAGE: LEASE NO: ROYALTY OWNER: Robert Barry Myers, Jr. PROPOSED WORK: ☐ DRILL ☐ CONVERT ☑ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION BHL MOD ☐ PERFORATE NEW FORMATION ☐ MOTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,600' TVD □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,000' MD WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis _ ADDRESS: _ ADDRESS: 1615 Wynkoop Street 535 White Oaks Blvd. Denver, CO 80202 Bridgeport, WV 26330

Antero Resources Well No. Shenango 1H BHL MOD Antero Resources Corporation





	Leases
1	Jay Michael Myers
2	Priscilla M. Grimm
3	Midwest Energy, Inc.
4	WVDNR
5	F.F & M.V. Morgan
6	J.W & Lizzie Morgan
16	Scott R. Adams
17	Robert Barry Myers, Jr.
22	Thomas R. & Deborah S. Fluharty
23	Chapel of Victory
24	Town of Pine Grove
29	Karen Sue Adams
30	Joshua R. Bates
31	Richard D., Jr. & Joanne Chapple
36	Michael Pellegrino
	Lisa Van Dyne Supplemental
37	Special Needs Trust
	Darren Phillip & Amanda
38	Suzanne Underwood Brown
	The Pine Grove Methodist
41	Episcopal Church
45	Three Rivers Royalty II, LLC
49	CSX Transportation
59	Kristina Louise Earley
61	T.M. Stone & Amanda C. Stone
62	Larry D. & Mary A. Huggins
64	P&P Fujimo, LLC
66	Jordan Ray Stackpole
67	The Pine Grove Public Library, Inc.
71	Robert Leroy Edgell
72	Robert Leroy Edgell Cheryl J. Haywood Supplemental
74	Cheryl J. Haywood Supplemental Needs Trust
75	CNX Gas Company, LLC
76	Kimble White, et al
77	H3, LLC
78	Bounty Minerals, LLC
79	Betty M. Prine
80	American Heart Association, Inc.
81	A.H. Low, et ux
82	EQT Production Company
85	Robert Barry Myers, Jr.
86	Antero Minerals, LLC
87	Robert Barry Myers, Jr.
88	Aunix Energy, LLC

Α	TM-Par	Owner	Bk/Pg	Acres
	14-9	Dallison Lumber, Inc.	474/290	25.00
В	14-12	Freeda M. Brown	W79/104	70.06
С	14-10	Sandra Jane Fortney	446/700	61.78
D	14-15.1	Community Sportsman's Club of Pine Grove	210/63	82.00
Е	11-26	Keith E. & Rebecca K. Rush	426/789	105.9
F	11-35	Allen Byard Jr.	282/18	12.50
G	1-1	Allen S. Jr. & Beverly S. Byard	419/163	3.00
Н	11-40	Michael J. Scyoc	341/102	22.09
1	1-8	Rachel Wyatt	488/886	0.32
J	1-9	Paul C. Tallman, Jr.	W84/612	0.81
K	11-41	Paul C. Tallman, Jr.	W84/612	1.00
L	1-10	Mary Pyles	398/604	0.47
М	1-38	Cindie Conley	492/642	0.66
N	1-44	Cindie Conley	492/642	0.27
0	1-45	James L. & Nila L. Smith	233/339	0.55
P	1-50	Sharon Ann McCoy	W67/221	0.55
Q	1-52			_
		Kenneth D. & Janet Nice	359/413	0.28
R	1-54.1	William C. & Jennifer J. Barker	309/15	0.08
S	1-54	William C. & Jennifer J. Barker	309/15	0.41
T	1-53	Debra L. Thomas	397/526	0.23
U	1-56	William C. & Jennifer J. Barker	455/181	0.15
٧	1-56.2	William C. & Jennifer J. Barker	455/181	0.17
W	1-56.1	William C. & Jennifer J. Barker	455/181	0.15
X	1-56.3	William C. & Jennifer J. Barker	455/181	0.14
Υ	1-57	David A. Pelikan	408/356	0.17
Z	1-60	Richard E. & Karen J. Palmer	384/687	0.11
AA	1-58	Jason A. Snider	W96/691	0.11
AB	1-59	Richard E. & Karen J. Palmer	390/12	0.17
AC	1-59.1	Palmer Funeral Home, Inc.	377/158	0.16
AD	1-27	Scott R. Adams	410/184	0.50
AE	1-28.2	Paul C. Tallman, Jr.	W84/612	0.11
AF	1-28.1	American Legion Benton M. Lowe Post 81	347/540	0.39
_	1-76			
AG AH		Thomas R. & Deborah S. Fluharty	410/856	0.15
_	1-77.1	Chapel of Victory Church	395/13	0.01
Al	1-77	Chapel of Victory Church	395/13	0.11
AJ	1-78	Chapel of Victory Church	395/11	0.08
AK	1-79	Town of Pine Grove	281/137	0.08
AL	1-94.1	Richard D. Jr. & Joanne Chapple	373/116	0.12
AM	1-94	Richard D. Jr. & Joanne Chapple	373/116	0.21
AN	1-95	Joshua R. Bates	475/352	0.05
	1-96			
AO	, 00	Karen S. Kinkade & Perry L. Adams	347/660	0.05
AO AP	1-97			
_		Karen S. Kinkade & Perry L. Adams	347/660	0.04
AP	1-97	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust	347/660 485/701 423/415	0.04
AP AQ	1-97 1-98 1-98.1	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust	347/660 485/701 423/415 485/701	0.04 0.05 0.01
AP AQ AR AS	1-97 1-98 1-98.1 1-94.2	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown	347/660 485/701 423/415 485/701 423/415	0.04 0.05 0.01 0.01
AP AQ AR AS AT	1-97 1-98 1-98.1 1-94.2 1-99	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown	347/660 485/701 423/415 485/701 423/415 423/415	0.04 0.05 0.01 0.01
AP AQ AR AS AT AU	1-97 1-98 1-98.1 1-94.2 1-99 1-100	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church	347/660 485/701 423/415 485/701 423/415 423/415 102/29	0.04 0.05 0.01 0.01 0.07 0.11
AP AQ AR AS AT AU AV	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92	0.04 0.05 0.01 0.01 0.07 0.11 3.00
AP AQ AR AS AT AU AV AW	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201	0.04 0.05 0.01 0.01 0.07 0.11 3.00 0.11
AP AQ AR AS AT AU AV AW	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191	0.04 0.05 0.01 0.07 0.11 3.00 0.11
AP AQ AR AS AT AU AV AW AX	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.14
AP AQ AR AS AT AU AV AW AX AY	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.04 3.00
AP AQ AR AS AT AU AV AW AX AY AZ BA	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.04 3.00 0.17
AP AQ AR AS AT AU AV AW AX AY AZ BA BB	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.14 0.04 3.00 0.17 0.48
AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.14 0.04 3.00 0.17 0.48
AP AQ AR AS AT AU AV AW AX AY AZ BA BB	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.14 0.04 3.00 0.17 0.48 0.52
AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr.	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.14 0.04 3.00 0.17 0.48 0.52 0.13
AP AQ AR AS AT AU AV AW AX AY BA BB BC BD	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr. Pine Grove Public Library, Inc.	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72 424/777	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.14 0.04 3.00 0.17 0.48 0.52 0.13
AP AQ AR AS AT AU AV AW AX AY BA BB BB BB BB BB BB	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165 2-170 2-171	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr. Pine Grove Public Library, Inc. Shari Ann Letterman	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72 424/777 431/393 383/376	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.14 0.04 3.00 0.17 0.48 0.52 0.13
AP AQ AR AS AT AU AV AX AY AZ BA BB BC BD BE BF BG	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165 2-170 2-171 2-171	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr. Pine Grove Public Library, Inc. Shari Ann Letterman Shari Ann Letterman	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72 424/777 431/393 383/376 383/376	0.040 0.011 0.011 0.011 3.000 0.111 0.144 0.044 3.000 0.177 0.130 0.130 0.130 0.130 0.130
AP AQ AR AS AT AU AV AW AX AY BA BB BC BB	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165 2-170 2-171 2-171 2-172	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr. Pine Grove Public Library, Inc. Shari Ann Letterman Shari Ann Letterman	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72 424/777 431/393 383/376 383/376	0.040 0.055 0.011 0.011 0.044 0.044 0.522 0.133 0.155 0.139 0.700
AP AQ AR AS AT AU AV AW AX AY BA BB BC BB	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165 2-170 2-171 2-171 2-172	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr. Pine Grove Public Library, Inc. Pine Grove Public Library, Inc. Shari Ann Letterman Shari Ann Letterman Shari Ann Letterman	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72 424/777 431/393 383/376 383/376 /	0.04 0.05 0.01 0.01 0.01 0.01 0.14 0.04 3.00 0.17 0.48 0.52 0.13 0.15 0.13 0.15 0.10
AP AQ AR AS AT AU AV AW AX AZ BA BB BC BD BE BF BG BH BI BJ	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165 2-170 2-171 2-172 2-173 2-174 16-8	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr. Pine Grove Public Library, Inc. Pine Grove Public Library, Inc. Shari Ann Letterman Shari Ann Letterman Shari Ann Letterman State Highway Commission Dominion Gathering & Processing, Inc.	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72 424/777 431/393 383/376 383/376 / 460/781	0.04 0.05 0.01 0.07 0.11 3.00 0.11 0.04 3.00 0.17 0.48 0.52 0.13 0.13 0.13 0.70
AP AQ AR AS AT AU AV AW AX AY BA BB BC BB	1-97 1-98 1-98.1 1-94.2 1-99 1-100 1-89 2-70 2-71 2-72 2-78 2-79 2-140 3-69 2-165 2-170 2-171 2-171 2-172	Karen S. Kinkade & Perry L. Adams Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Lisa Van Dyne Supplemental Needs Trust Darren Phillip Brown Darren Phillip Brown M.E. Church Deetta L. Sell Edgar Shrum, Jr. & Logan Shrum Weldon P. Williams Lawrence K. & Tabatha L. Mason Wetzel County BOE Wetzel County BOE Kristina Louise Earley Connie I. & Stephen C. Nixon, Sr. Pine Grove Public Library, Inc. Pine Grove Public Library, Inc. Shari Ann Letterman Shari Ann Letterman Shari Ann Letterman	347/660 485/701 423/415 485/701 423/415 423/415 102/29 237/92 483/201 454/191 412/302 / 453/295 402/516 436/72 424/777 431/393 383/376 383/376 /	0.05 0.04 0.05 0.01 0.01 0.01 3.00 0.11 0.14 0.04 3.00 0.17 0.13 0.15 0.13 0.70 1.06 0.15 0.15 0.15 0.16 0.16 0.16 0.16 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17

FILE NO: 151-34-G-23 DRAWING NO: Shenango 1H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE: July 10 20 24 OPERATOR'S WELL NO. Shenango 1H API WELL NO 47 - 103 - 03658 STATE COUNTY PERMIT
	☐ LIQUID INJECTION ☐ WASTE DISPOSAL DN: ☐ STORAGE ☐ DEEP ☒ SHALLOW	
LOCATION: ELEVATION: As-Built 1,160	.7' WATERSHED: Fishing Creek QUAD	RANGLE: Pine Grove
DISTRICT: Green, Grant, Pine Grove Corp.	CC	OUNTY: Wetze 8/02/2024
SURFACE OWNER: Dallison Lumber Inc.		REAGE: <u>25</u>
ROYALTY OWNER: Robert Barry M	yers, Jr. LEASE NO:	ACREAGE:25
PROPOSED WORK: ☐ DRILL ☐ CO	NVERT ⊠ DRILL DEEPER □FRACTURE OR STIMULAT	E □ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION	XOTHER PHYSICAL CHANGE IN WELL (SPECIFY)	BHL MOD 7.600' TVD
☐ PLUG AND ABANDON ☐ CLEAN C	OUT AND REPLUG TARGET FORMATION: Marcellus Sh	eale ESTIMATED DEPTH: 29,000' MD
WELL OPERATOR: Antero Resources Cor	poration DESIGNATED AGENT: Kevin Ellis	
ADDRESS: 1615 Wynkoop Street	ADDRESS:535 White Oa	iks Blvd.
Denver, CO 80202	Bridgeport, W	V 26330

Shenango Unit 1H MOD

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
85: Robert Barry Myers, Jr. Lease Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	300A/0634
88: Aunix Energy, LLC Lease AUnix Energy, LLC	Antero Resources Corporation	1/8+	305A/0014
87: Robert Barry Myers, Jr. Lease Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	304A/0413
86: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8+ Office RECEIVED	292A/0739
1: Jay Michael Myers Lease Jay Michael Myers Gastar Exploration USA Inc. Stone Energy Corporation EQT Production Company	Gastar Exploration USA Inc. Stone Energy Corporation EQT Production Company Antero Resources Corporation	1/8+ Office of Oil and 1/8 Assignment Assig	4 4004 (0005
<u>2: Priscilla M. Grimm Lease</u> Priscilla M. Grimm	Antero Resources Corporation	1/8+	306A/0195
3: Midwest Energy, Inc. Lease Midwest Energy, Inc.	Antero Resources Corporation	1/8+	297A/0395
4: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	323A/0541
5: F.F. & M. V. Morgan Lease F. F. Morgan & M. V. Morgan South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc Blazer Energy Corporation Eastern States Oil & Gas Inc Equitable Production - Eastern States Inc	South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc Blazer Energy Corporation Eastern States Oil & Gas Inc Equitable Production - Eastern States Inc Equitable Production Company	12.50% Assignment Assignment Assignment Name Change Assignment Name Change Name Change Name Change	0053/0144 028A/0280 0233/0387 066A/0069 0013/0151 076A/0232 0012/0253 0012/0259 0013/0014 0013/0014
Equitable Production Company EQT Production Company	EQT Production Company Antero Resources Corporation	Name Change Assignment	0013/0014 230A/0801

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
C. I.W. S. Lineia Mannau Lanca			
6: J.W. & Lizzie Morgan Lease J. W. Morgan & Lizzie Morgan	South Penn Oil Company	12.50%	0046/0262
South Penn Oil Company	Hope Natural Gas Company	Assignment	009A/0230
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
	Consolidated Gas Transmission Corporation		066A/0069
Consolidated Gas Supply Corporation		Assignment	
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
Eastern States Oil & Gas Inc	Blazer Energy Corporation	Name Change	0012/0253
Blazer Energy Corporation	Eastern States Oil & Gas Inc	Name Change	0012/0259
Eastern States Oil & Gas Inc	Equitable Production - Eastern States Inc	Name Change	0013/0014
Equitable Production - Eastern States Inc	Equitable Production Company	Name Change	0013/0014
Equitable Production Company	EQT Production Company	Name Change	0013/0014
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
17: Robert Barry Myers, Jr. Lease			
Robert Barry Myers, Jr.	Antero Resources Corporation	1/8+	343A/0633
4: WVDNR Lease			
WVDNR	Antero Resources Corporation	1/8+	323A/0541
23: Chapel of Victory Lease		- 12	
Chapel of Victory	Antero Resources Corporation Office RECE	IVED 1/8+	347A/0187
30: Joshua R. Bates Lease	Antero Resources Corporation Office RECE Of Oil	and Gas	
Joshua R. Bates	Antero Resources Corporation	1/8+	324A/0329
21. Bishard D. Jr. & Joanna Channia Lasca	Wy	2024	
31: Richard D., Jr. & Joanne Chapple Lease Richard D., Jr. & Joanne Chapple	Antero Resources Corporation	9nt of 1/8+	345A/0167
	Antero Resources Corporation Environmental P	Totection	- 10. 4 1
36: Michael Pellegrino Lease			2404/0505
Michael Pellegrino	Antero Resources Corporation	1/8+	349A/0685
38: Darren Phillip & Amanda Suzanne			
Underwood Brown Lease			
Darren Phillip & Amanda Suzanne Underwood			
Brown	Antero Resources Corporation	1/8	Pooled Tract
31: Richard D., Jr. & Joanne Chapple Lease			
Richard D., Jr. & Joanne Chapple	Antero Resources Corporation	1/8+	345A/0167
4: W//DNR Loaco			
4: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	323A/0541
WVDIKK	Antero Resources corporation	2/61	3237,0341
45: Three Rivers Royalty II, LLC Lease		7-92	
Three Rivers Royalty II, LLC	CNX Gas Company, LLC	1/8+	293A/0373
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	343A/0487
49: CSX Transportation Lease			
CSX Transportation	Antero Resources Corporation	1/8+	372A/0324
The second of the second secon	and the second		08/02/2024
			00/02/2024

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Grantor, lessor, etc.	rantor, lessor, etc. Grantee, lessee, etc.		Book/Page
4: WVDNR Lease			
WVDNR	Antero Resources Corporation	1/8+	323A/0541
49: CSX Transportation Lease CSX Transportation	Antero Resources Corporation	1/8+	372A/0324
CSA Transportation	Antero resources corporation	1/6+	3724/0324
64: P&P Fujimo, LLC Lease P&P Fujimo, LLC	Antero Resources Corporation	1/8+	313A/0566
* *			•
67: The Pine Grove Public Library, Inc. Lease The Pine Grove Public Library, Inc.	Antero Resources Corporation	1/8+	345A/0767
71: Robert Leroy Edgell Lease		. (2)	250.10.40
Robert Leroy Edgell	Antero Resources Corporation	1/8+	350A/0142
72: Robert Leroy Edgell Lease	O#:-	RECEIVE 1/8+	3504/0143
Robert Leroy Edgell	Antero Resources Corporation	of Oil and	350A/0142
74: Cheryl J. Haywood Supplemental Needs	JUI	7 - Gas	
<u>Trust Lease</u> Cheryl J. Haywood Supplemental Needs Trust	Antero Resources Corporation	RECEIVED 1/8+ of Oil and Gas I I 2024 1/8+ Partment of tal Protection 12.50% Assignment	360A/0510
61: T.M. Stone & Amanda C. Stone Lease	ronmen	fairment of	
T.M. Stone & Amanda C. Stone	South Penn Oil Company	Ofection 12.50%	0046/0270
South Penn Oil Company	Hope Natural Gas Company	Assignment	002A/0299
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
CNG Transmission Corporation	CNG Development	Assignment	067A/0453
CNG Development	CNG Producing Company	Name Change	wvsos
CNG Producing Company	Dominion Exploration& Production, Inc	Name Change	WVSOS
Dominion Exploration& Production, Inc	Antero Resources Appalachian Corporation	Assignment	095A/0937
Antero Resources Appalachian Corporation	Dominion Exploration& Production, Inc	Assignment	098A/0219
Dominion Exploration& Production, Inc	CONSOL Gas Company	Name Change	0013/0108
CONSOL Gas Company	CNX Gas Corporation Merger		0096/0307
CNX Gas Corporation	Antero Resources Corporation	Assignment	365A/0106
75: CNX Gas Company, LLC Lease			
CNX Gas Company, LLC	Antero Resources Corporation	1/8+	343A/0498
76: Kimble White, et al Lease			
Kimble White, et al	Hope Natural Gas Company	12.50%	0126/0216
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyance	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyance	0311/0184
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
CNG Transmission Corporation	CONSOL Gas Company	Merger	0013/0114
CONSOL Gas Company	CNX Gas Company, LLC	Merger	0096/0307
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	365A/0129

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
4: WVDNR Lease			
WVDNR	Antero Resources Corporation	1/8+	323A/0541
77: H3, LLC Lease			
H3, LLC	Antero Resources Corporation	1/8+	347A/0174
78: Bounty Minerals, LLC Lease			
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	329A/0048
79: Betty M. Prine Lease			9
Betty M. Prine	Antero Resources Corporation	1/8+	349A/0788
80: American Heart Association, Inc. Lease		- 10	
American Heart Association, Inc.	Antero Resources Corporation	1/8+	362A/0078
4: WVDNR Lease		1/0.	2224/0544
WVDNR	Antero Resources Corporation	1/8+	323A/0541
81: A.H. Low, et ux Lease	Hope Natural Gas Company	12.50%	010A/0423
A.H. Low, et ux Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merge	0013/0151
CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
Eastern States Oil & Gas Inc	Equitable Production - Eastern States Inc	Name Change	0013/0014
Equitable Production - Eastern States Inc	Equitable Production Company	Name Change	0013/0014
Equitable Production Company	EQT Production Company	Name Change	0013/0014
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
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^{*}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.

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Rovaltv	Book/Page
82: EQT Production Company Lease		, , , , , , , , , , , , , , , , , , , ,	riojunij	Dook i age
	EQT Production Company	Antero Resources Corporation	1/8+	230A/0877

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

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- · WV Division of Water and Waste Management
- · WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

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