

### 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, December 18, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Tennessee Unit 1H

47-095-02902-00-00

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

James A. Martin

Chief

Operator's Well Number: Tennessee Unit 1H

Farm Name: Antero Resources Corporation

U.S. WELL NUMBER: 47-095-02902-00-00

Horizontal 6A New Drill

Date Modification Issued:

Promoting a healthy environment.

API NO. 47- 095	_ 02902	
OPERATOR WE	LL NO.	Tennessee Unit 1H MOD
Well Pad Nam	e Shinn	Pad

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

1) Well Operator: Antero Reso	ources Corpora	494507062	095 - Tyler	Lincoln	Paden City
A more of Landson		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Ter	nnessee Unit 1F	MOD Well Pa	ad Name: Shir	nn Pad	
3) Farm Name/Surface Owner:	Antero Resources Corp	Public Ro	oad Access: Ba	adger Run F	Road
4) Elevation, current ground:	1043' El	evation, proposed	d post-construc	tion: 1036'	
5) Well Type (a) Gas X Other	Oil	Un	derground Stor	rage	
A service programme and a service construction	llow X izontal X	Deep			-
6) Existing Pad: Yes or No No		<del></del>	_		
7) Proposed Target Formation(s) Marcellus Shale: 6700' TVD, A					
8) Proposed Total Vertical Depth	n: 6700' TVD				
9) Formation at Total Vertical D		3			
10) Proposed Total Measured De	epth: 24200' M	ID			
11) Proposed Horizontal Leg Le	ngth: 14618.9'				
12) Approximate Fresh Water St	trata Depths:	328			
13) Method to Determine Fresh	Water Depths:	47-095-02781			
14) Approximate Saltwater Dept	ths: 1440				
15) Approximate Coal Seam De	pths: N/A				
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other)	None Anticip	oated	
17) Does Proposed well location directly overlying or adjacent to		ms Yes	1	No X	
(a) If Yes, provide Mine Info:	Name:				
9.0	Depth:				
	Seam:				
	Owner:				
		D	COED (EE		

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WW-6B	
(04/15)	

API NO. 47-\_095\_\_\_-\_02902

OPERATOR WELL NO. Tennessee Unit 1H MOD
Well Pad Name: Shinn 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#	378	378	CTS, 394 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate		-				4	
Production	5-1/2"	New	P-110	23#	24200	24200	5170 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	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		

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API NO. 47-	095	- 02902	
OPERAT	OR V	VELL NO.	Tennessee Unit 1

Well Pad Name: Shinn Pad

H MOD

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): 38.08 acres

22) Area to be disturbed for well pad only, less access road (acres): 16.29 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.

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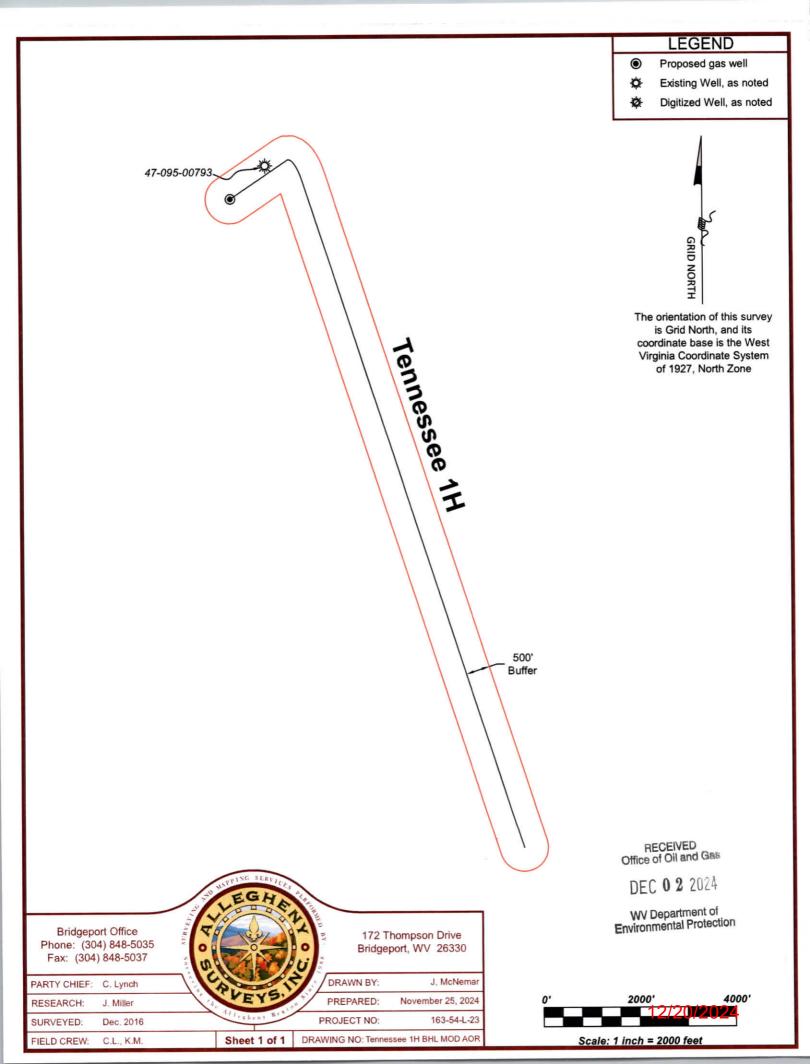
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API NO. 47-095 - 0	2902
OPERATOR WELL	NO. Tennessee Unit 1H MOD
Well Pad Name:	Shinn Pad

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

1) Well Operato	or: Antero	Resources	Corpora	494507062	095 - T	yler Lincoln	Paden City
•				Operator ID	County	Distric	t Quadrangle
2) Operator's W	Vell Numbe	r: Tennesse	e Unit 1F	H MOD Well	Pad Name:	Shinn Pad	
3) Farm Name/S	Surface Ow	ner: Antero Re	esources Corp	poration Public	Road Access	Badger Rur	Road
4) Elevation, cu	irrent groun	id: 1043'	El	levation, propos	sed post-cons	truction: 103	6'
5) Well Type	(a) Gas Other	X	_ Oil	t	Inderground	Storage	
	(b)If Gas	Shallow Horizontal	X	Deep	-		
6) Existing Pad	: Yes or No						
7) Proposed Tar Marcellus Sh	-			cipated Thickne ess- 55 feet, Ass			s):
8) Proposed To	tal Vertical	Depth: 670	00' TVD		ei		
9) Formation at			Marcellus	S			
10) Proposed T	otal Measu	red Depth:	24200' N	1D			
11) Proposed H	Iorizontal L	eg Length:	14618.9'				
12) Approxima	te Fresh Wa	ater Strata D	epths:	328			
13) Method to l	Determine l	Fresh Water	Depths:	47-095-02781			
14) Approxima	te Saltwate	r Depths: 1	440				
15) Approxima	ite Coal Sea	m Depths:	N/A				
16) Approxima	te Depth to	Possible Vo	id (coal m	ine, karst, othe	r): None An	ticipated	
17) Does Propo directly overlyi				Yes _		_ No X	RECEIVED Office of Oil and Gas
(a) If Yes, pro	ovide Mine	Info: Name	e:				DEC 0 2 2024
3 6			h:				WV Department of Environmental Protection
	403687 ₹7500° 11/17/2	Seam	n:				rotection
,	,,,,,,,	Own	er:				
	11/10/2	2019					

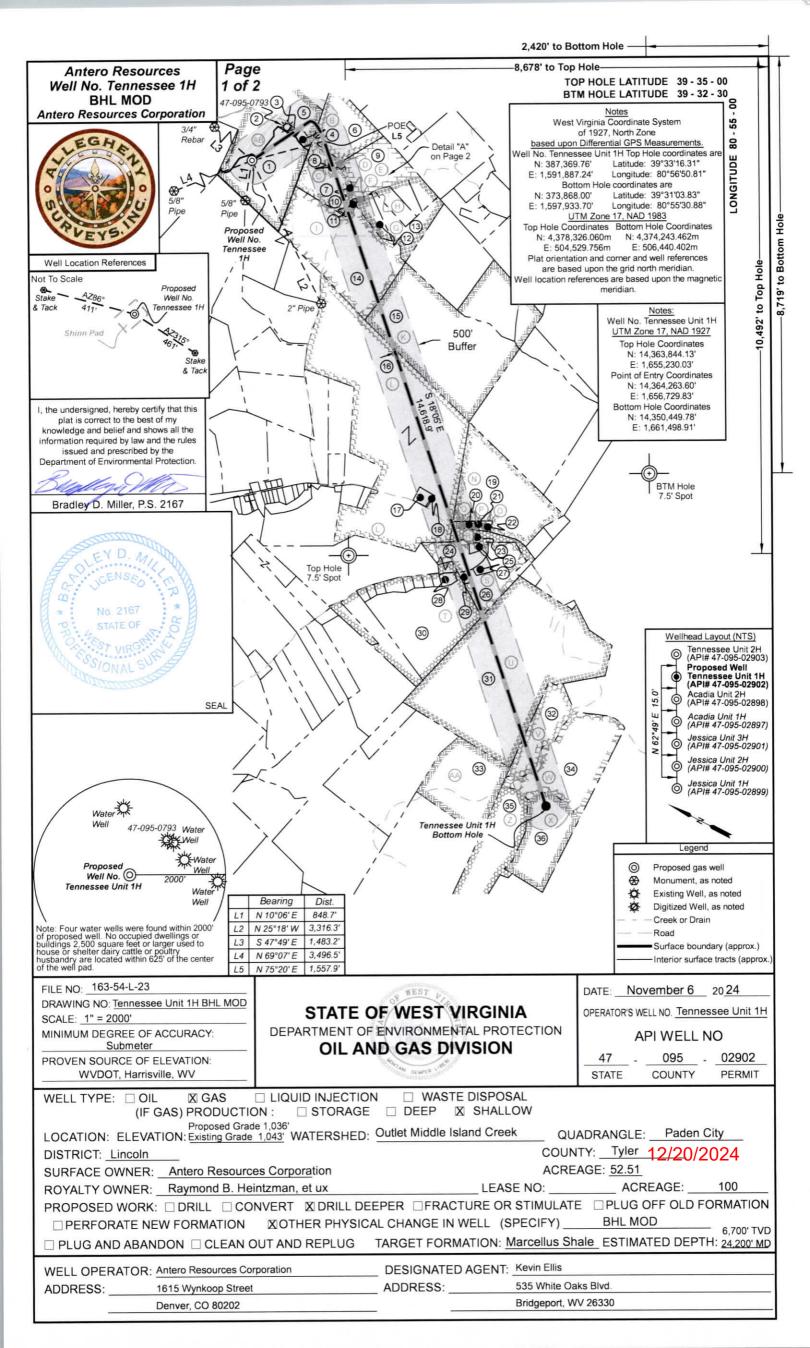


UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	ТО	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
	HEINTZMAN RAYMOND B	1	PIN OAK OPERATING LLC	CARTER JONES LUMBER	3,407	2641 - 3256	Fifth, Warren First	Alexander, Weir, Berea, Warren

Office of Oil and Gas

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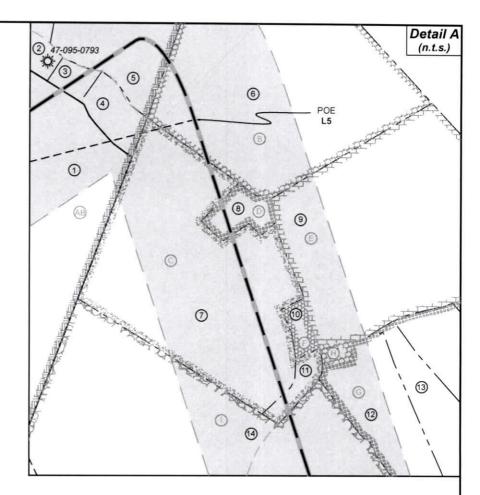


Antero Resources Well No. Tennessee 1H BHL MOD

Antero Resources Corporation

EGHK O G

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ID	TM-Par	Owner	Bk/Pg	Acres
1	8-21.2	Antero Resources Corporation	296/494	35.52
2	8-21	Antero Resources Corporation	296/490	52.51
3	8-21.3	Adam Nathaniel Wayne	236/556	0.79
4	8-21.4	Jodie E. Michael	373/544	1.78
5	8-21.1	Justin P. & Stephanie M. Richards	411/189	11.24
6	8-23	Elden Jackson & Jennifer Lynn Wryosdick	385/343	30.00
7	8-22	David E. & Ila Grace Kyle	270/206	24.63
8	8-22.2	Michael V. Smith	219/609	1.44
9	8-27	Sharon M. Jeffrey Darrin Deaton	349/176	24.65
10	8-22.1	Thomas H. & Sabrina Kyle	325/186	0.67
11	8-28	David E. & Ila Grace Kyle	184/232	0.88
12	8-30	Neven J. Moffitt	644/625	6.27
13	8-30.2	Neven J. Moffitt	332/25	16.38
14	8-41	David E. & Ila Grace Kyle	272/189	118.10
15	8-61	G.R. Meckley Family Trust	OR50/28	106.51
16	12-71	Shaun M. & Carrie A. Meckley	393/423	266.33
17	12-72	Billy J. & Lois M. Stern	214/439	2.15
18	12-71.2	Billy J. & Lois M. Stern	393/434	0.22
19	13-9.6	G.R. Meckley Family Trust	OR50/28	65.48
20	13-10	Richard G. & Nancy S. Lemasters	206/15	1.37
21	13-11	John H. Booher	393/564	0.45
22	13-12	Kevin A. Bliss	324/555	1.20
23	13-22	Deborah L. & David R. Starcher	475/380	7.87
24	13-9.3	James Perry & Melissa Flesher	284/78	16.03
25	13-9.5	Evan Cline	OR80/142	1.97
26	13-9	David A. Starcher	475/378	31.68
27	13-9.1	Bryan Jason & Stafanie Suter	483/807	1.90
28	12-54.7	Jeffrey L. & Nicola S. Stewart	458/662	1.91
29	13-13	David A. Starcher	475/378	1.00
30	12-54	David A. Starcher	591/22	60.95
31	13-15	Cathy J. Meredith Trust	634/684	200.86
32	13-17	Rene Hickman, et al	WB45/145	24.00
33	13-20	Jim Winland	304/421	50.75
34	9-32	Janet L. Cline	331/921	61.25
35	14-1	James A. & Carol Winland	WB31/209	47.48
36	14-2	Robert L. & Donald E. Reed	188/726	42.00

	Leases
В	Drilling Appalachian Corporation
С	Bounty Minerals, LLC
D	Michael V. Smith
Е	M. Sharon Deaton
F	Thomas H. & Sabrina M. Kyle, JTWROS
G	Larry A. & Karen B. Wells
Н	Neven J. Moffitt
1	Bounty Minerals, LLC
K	Arien Gien Wells, Jr.
L	Lois M. & Billy J. Stern, JTWROS
Ν	Gerald W. Meckley, Jr., et al
0	Kevin A. Bliss
Р	John H. & Susan Booher
Q	John Stanley Starkey
R	Deborah L. Starcher
S	Teresa Starcher Burgey
Т	BRC Appalachian Minerals I, LLC
U	Cathy Jane Meredith, acting as Trustee for The Cathy Jane Meredith Trust
٧	James W. Thomas, et ux
w	Townshend, Susan, Executor of the Last Will and Testament of Ruth B. Thomas
Х	Mildred A. Reed
Z	James Andrew Winland
AA	James Andrew Winland
AB	Raymond B. Heintzman, et ux

FILE NO: \_163-54-L-23

DRAWING NO: Tennessee Unit 1H BHL MOD

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: _	Novemb	er 6	2024
OPERATO	R'S WELL NO.	Tenne	essee Unit 1H

API WELL NO

47 - 095 - 02902

STATE COUNTY PERMIT

		- Children		SIAIE	COUNTY	PERIVIT
WELL TYPE: ☐ OIL	☐ LIQUID INJECTIO	N WASTE DISPOS	SAL			
(IF GAS) PRODUCTION						
Proposed Grad LOCATION: ELEVATION: Existing Grade	e 1,036' 1,043' WATERSHED:	Outlet Middle Island Cree	ek QU	ADRANGLE	Paden (	City
DISTRICT: Lincoln				TY: Tyler		
SURFACE OWNER: _ Antero Resource	es Corporation		ACRE	AGE: <u>52.51</u>		
ROYALTY OWNER: Raymond B. Hei	ntzman, et ux	LEAS	SE NO:	ACF	REAGE:	100
PROPOSED WORK: ☐ DRILL ☐ COI	NVERT X DRILL DE	EPER FRACTURE OF	RSTIMULATE	PLUG	OFF OLD F	ORMATION
□ PERFORATE NEW FORMATION   ☑OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  6,700' TVD						
$\square$ PLUG AND ABANDON $\square$ CLEAN C	OUT AND REPLUG	TARGET FORMATION:	Marcellus Sh	ale_ESTIMA	TED DEPT	H: <u>24,200' MD</u>
WELL OPERATOR: Antero Resources Cor	poration	_ DESIGNATED AGENT:	Kevin Ellis			
ADDRESS: 1615 Wynkoop Street		_ ADDRESS:	535 White Oa	ks Blvd.		
Denver, CO 80202			Bridgeport, W	V 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	
AB: Raymond B. Heintzman, et ux <u>Lease</u>				
Raymond B. Heintzman, et ux	McCombs Conrad & Barrett	1/8	207/136	
McCombs Conrad & Barrett	Appalachian Exploration & Development, Inc	Assignment	207/487	
Appalachian Exploration & Development, Inc	The Carter-Jones Lumber Company	Assignment	233/563	
The Carter-Jones Lumber Company	Applied Mechanics Corporation	Assignment	258/132	
Applied Mechanics Corporation	Triad Hunter, LLC	Assignment	385/5 <del>66</del>	
Triad Hunter, LLC	Antero Resources Corporation	Assignment	496/776	
8: Drilling Appalachian Corporation Lease				
Drilling Appalachian Corporation	Antero Resources Corporation	1/8+	296/19	
C: Bounty Minerals, LLC Lease				
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	301/448	
D: Michael V. Smith Lease	<u>.</u>	- 10	245/403	
Michael V. Smith	Antero Resources Corporation	1/8+	315/187	
C: Bounty Minerals, LLC Lease		410	201/440	
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	301/448	
1: Bounty Minerals, LLC Lease		4/0.	301/448	
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	301/448	
K: Arlen Glen Wells, Jr Lease		1/0.	211/509	
Arlen Glen Wells, Jr	Antero Resources Corporation	1/8+	211/303	
L: Lois M. & Billy J. Stern, JTWROS Lease	A. A B	1/8+	324/268	
Lois M. & Billy J. Stern, JTWROS	Antero Resources Corporation	1/07	324/200	
N: Gerald W. Meckley Jr, et al Lease	Total Human II C	1/8+	409/514	
Gerald W. Meckley Jr, et al	Triad Hunter LLC	Merger	104/354	
Triad Hunter LLC	Blue Ridge Mountain Resources, Inc	Merger	104/357	
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Name Change	WVSOS	
Eclipse Resources I, LP	SWN Production, LLC	Assignment	235/291	
SWN Production, LLC	Antero Resources Corporation	Assignment	233/231	
Q: John Stanley Starkey Lease		4.00	204/702	
John Stanley Starkey	Antero Resources Corporation	1/8+	294/792	
R: Deborah L. Starcher Lease		4/0.	222/220	
Deborah L. Starcher	Antero Resources Corporation	1/8+	323/339	
S: Teresa Starcher Burgey Lease	RECEIVED	110	C34   F43	
Teresa Starcher Burgey	Antero Resources Corporation Office of Oil and Gar	1/8+	631/517	

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WV Department of Environmental Protection

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page	
T: BRC Appalachian Minerals I, LLC Lease				
BRC Appalachian Minerals I LLC	<b>BRC Working Interest Company LLC</b>	1/8+	369/300	
BRC Working Interest Company LLC	Chesapeake Appalachia, LLC	Assignment	369/784	
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc	Assignment	378/764	
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	470/668	
SWN Exchange Titleholder LLC	SWN Production Company LLC	Merger	9/404	
SWN Production Company LLC	Antero Exchange Properties	Assignment	544/242	
Antero Exchange Properties	Antero Resources Corporation	Merger	525/315	
U: Cathy Jane Meredith, acting as Trustee for				
The Cathy Jane Meredith Trust Lease				
Cathy Jane Meredith, acting as Trustee for	SEP Appalachia, LLC	1/8+	324/233	
The Cathy Jane Meredith Trust			626	
SEP Appalachia, LLC	Antero Resources Corporation	Agreement	JOA	
V: James W. Thomas, et ux Lease		_		
James W. Thomas, et ux	Triad Hunter LLC	1/8	380/122	
Triad Hunter LLC	Blue Ridge Mountain Resources, Inc.	Merger	104/354	
Blue Ridge Mountain Resources, Inc.	Eclipse Resources I, LP	Merger	104/357	
Eclipse Resources I, LP	SWN Production, LLC	Name Change	WVSOS	
SWN Production, LLC	Antero Resources Corporation	Assignment	235/291	
W: Townshend, Susan, Executor of the Last				
Will and Testament of Ruth B. Thomas Lease		1/8	380/119	
Townshend, Susan, Executor of the Last Will	Triad Hunter LLC	1/8	380/119	
and Testament of Ruth B. Thomas			104/354	
Triad Hunter LLC	Blue Ridge Mountain Resources, Inc	Merger	104/357	
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Merger	WVSOS	
Eclipse Resources I, LP	SWN Production, LLC	Name Change	235/291	
SWN Production, LLC	Antero Resources Corporation	Assignment	233/231	

<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.

<sup>\*</sup>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.

<sup>\*\*</sup>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.	Royalty	Book/Page
X: Mildred A. Reed Lease	Mildred A. Reed Triad Hunter LLC Blue Ridge Mountain Resources, Inc Eclipse Resources I, LP SWN Production, LLC	Triad Hunter LLC Blue Ridge Mountain Resources, Inc Eclipse Resources I, LP SWN Production, LLC Antero Resources Corporation	1/8+ Merger Merger Name Change Assignment	383/100 104/354 104/357 WVSOS 235/291

#### 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

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, reptates of on 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:

By: Antero Resources Corporation

Tim Rady

Senior Vice President of Land

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