

#### 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, February 19, 2025 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Neptune Unit 1H

47-085-10537-00-00

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: Neptune Unit 1H

Farm Name: Richard E Blouir ET UX

U.S. WELL NUMBER: 47-085-10537-00-00

Horizontal 6A New Drill

Date Modification Issued: 2-19-2025

Promoting a healthy environment.

API NO. 47-085	_ 10537	
OPERATOR W	ELL NO.	Neptune Unit 1H MOD
Well Pad Nar	ne Hushe	r Pad

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

1) Well Operator: Antero Res	ources Corpora	494507062	085 - Ritchie	Clay	Ellenboro 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Ne	eptune Unit 1H M	OD Well Pac	d Name: Hushe	er Pad	
3) Farm Name/Surface Owner:	Richard E. Blouir	et ux Public Roa	d Access: Lam	berton Ro	d
4) Elevation, current ground:	1,007' As-Built Ele	evation, proposed	post-construction	on:	
5) Well Type (a) Gas X Other	Oil	Unde	erground Storag	е	
(b)If Gas Sha	allow X	Deep			
Но	rizontal X				
6) Existing Pad: Yes or No Ye	s		_		
<ol> <li>Proposed Target Formation(s Marcellus Shale: 7600' TVD, A</li> </ol>		•			
8) Proposed Total Vertical Dept	th: 7600' TVD				
9) Formation at Total Vertical I	Depth: Marcellus				
10) Proposed Total Measured D	epth: 31,400' M	D			
11) Proposed Horizontal Leg Le	ength: 20,666'	*Open to modific	cation at a later	date	
12) Approximate Fresh Water S	trata Depths:	147', 406'			
13) Method to Determine Fresh	Water Depths: 47	7085015510000, 470850888200	000Offset well records. Dep	hs have been adj	usted according to surface elevation
14) Approximate Saltwater Dep	ths: 1654'				
15) Approximate Coal Seam De	epths: N/A				
16) Approximate Depth to Poss	ible Void (coal mi	ne, karst, other):	None Anticipat	ed	
17) Does Proposed well location directly overlying or adjacent to			No	x	
(a) If Yes, provide Mine Info:	Name:				
(a) If Yes, provide Mine Info:	Name: Depth:				
(a) If Yes, provide Mine Info:					

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API NO. 47-\_085 \_\_\_ - 10537

OPERATOR WELL NO. Neptune Unit 1H MOD Well Pad Name: Husher 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#	456'	456'	CTS, 475 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	6300'	6300'	CTS, 2565 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	31400'	31400'	CTS, 6985 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		

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ΔPI	NO	47- 085	- 10537
AFI	INO.	4/- 000	- 10001

OPERATOR WELL NO. Neptune Unit 1H MOD
Well Pad Name: Husher 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): 20.13 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 9.66 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.

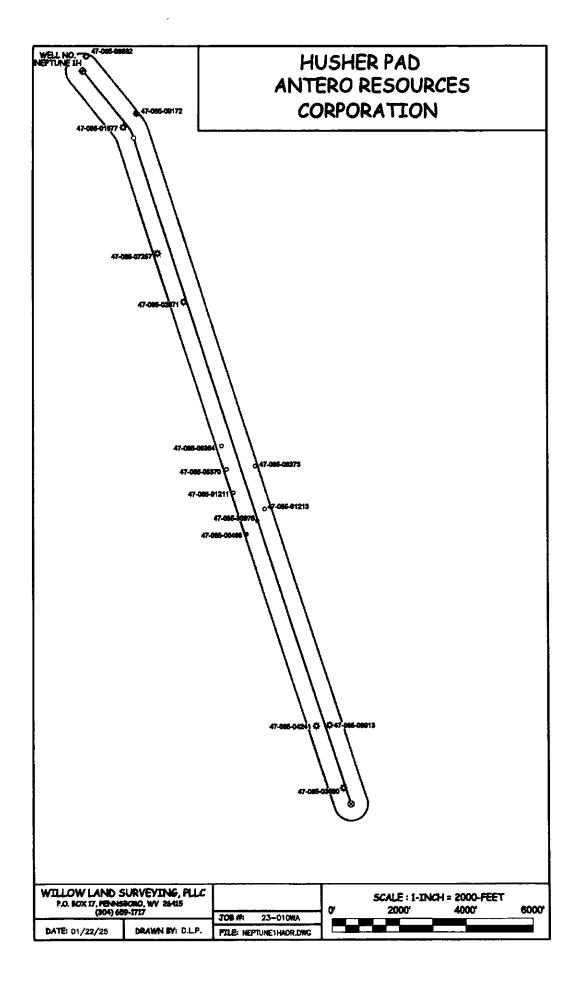
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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.

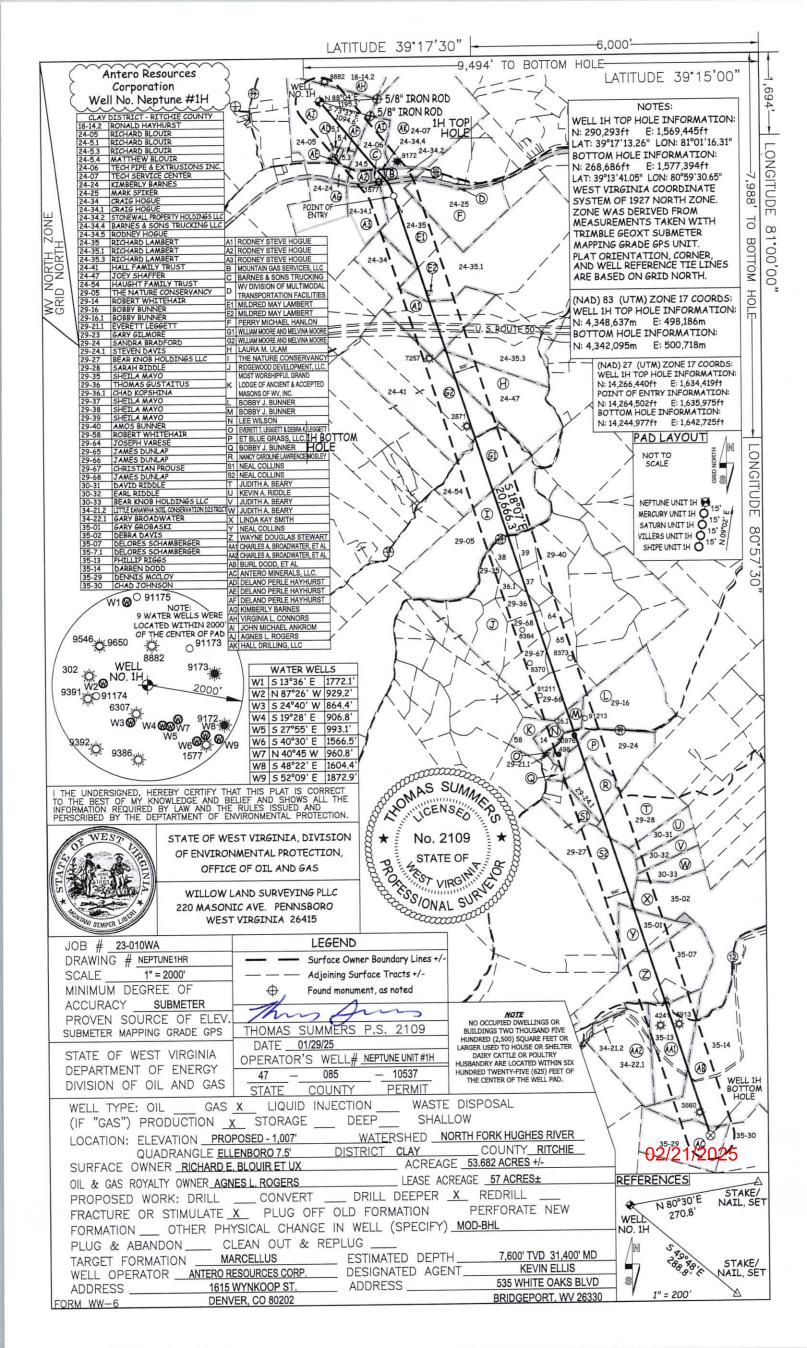
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UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085088820000	HAYHURST	1	ANJA RESOURCES	ANIA RESOURCES	3,072	1210 - 2879	Salt Sands, Big Injun, Tiona	Weir, Benson, Alexander
47085091720000	SHANLEY MARY	3	HALL DRILLING	JAY BEE PRODUCTION	3,210	1932 - 2759	Big Injun, Gordon	Weir, Benson, Alexander
	GRAIG HOGUE HEIRS	1	CHARITY GAS INC	COTTRILLE C C	1,881		Big Injun	Weir, Benson, Alexander
47085028710000	WILLIAM MOORE HRS	1	DEEM J F OIL & GAS LLC	MOSSOR W H	1,916		Big Injun	Weir, Benson, Alexander
47085072570000	NAY EVA M	6A	STANDARD OIL CO INC	PRIOR FERRELL L	5,211		Udev, Lower Huron, Java	Weir, Benson, Alexander
47085083640000	MCGINNIS	7	BIALEK OIL & GAS CORP	UNKNOWN		THE RESERVE OF THE PERSON NAMED IN		
47085083700000	MCGINNIS	14	BIALEK OIL & GAS CORP	UNKNOWN		A STATE OF THE PERSON NAMED IN		
47085912110000							the state of the s	
47085309760000	E B BUNNER	4	CHALMERS OIL & GAS	CHALMERS OIL & GAS	1,866		undetermined unit, Big Injun, undetermined unit	Weir, Benson, Alexander
47085004980000	LJ & CERA MORRIS	1	UNKNOWN	UNKNOWN	1,823	Bellevin and the second	Big Injun	Weir, Benson, Alexander
47085083730000	MCGINNIS	17	UNKNOWN	UNKNOWN				
47085912130000			Action in the party of the		404			
47085042410000	BROADWATER M M	1	SUGAR ROCK INC	LIBERTY O&G CORP	2,256	2086 - 2086	Berea	Weir, Benson, Alexander
47085069130000	BROADWATER HEIRS	1	PETRO-MARK INC	PETRO-MARK INC	2,009	1787 - 1813	Big Injun	Weir, Benson, Alexander
47085035600000	EARL WILSON	4	LUCAS WELL SERV INC	BLAUSER WELL SERVICE	2,114	1900 - 2064	Big Injun	Weir, Benson, Alexander

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## 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
AJ: Agnes L. Rogers Lease Agnes L. Rogers Jenkins Energy Corporation Clarence W. Mutschelknaus	Jenkins Energy Corporation Clarence W. Mutschelknaus Antero Resources Corporation	1/8 Assignment Assignment	0204/0778 0273/0692 <b>0274/1002</b>
Al: John Michael Ankrom Lease John Michael Ankrom	Antero Resources Corporation	1/8	0283/1042
C: Barnes & Sons Trucking Lease Barnes & Sons Trucking	Antero Resources Corporation	1/8+	0348/0441
B: Mountain Gas Services, LLC Lease Mountain Gas Services, LLC	Antero Resources Corporation	Assignment	Pooled Tract
D: WV Division of Multimodal Transportation Facilities Lease WV Division of Multimodal Transportation Facilities	Antero Resources Corporation	1/8+	0336/0335
E1: Mildred May Lambert Lease Mildred May Lambert Oil Development Company Alan Gable Oil Development Energy Trust GasSearch Corporation Linn Energy Holdings, LLC XTO Energy, Inc.	Oil Development Company Alan Gable Oil Development Energy Trust GasSearch Corporation Linn Energy Holdings, LLC XTO Energy, Inc. Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment	0157/0769 0207/0623 0207/0628 0239/0118 0246/0814 0295/0836
E2: Mildred May Lambert Lease Mildred May Lambert Oil Development Company Alan Gable Oil Development Energy Trust GasSearch Corporation Linn Energy Holdings, LLC XTO Energy, Inc.	Oil Development Company Alan Gable Oil Development Energy Trust GasSearch Corporation Linn Energy Holdings, LLC XTO Energy, Inc. Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment	0157/0769 0207/0623 0207/0628 0239/0118 0246/0814 <b>0295/0836</b>
E1: Mildred May Lambert Lease Mildred May Lambert Oil Development Company Alan Gable Oil Development Energy Trust GasSearch Corporation Linn Energy Holdings, LLC XTO Energy, Inc.	Oil Development Company Alan Gable Oil Development Energy Trust GasSearch Corporation Linn Energy Holdings, LLC XTO Energy, Inc. Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment	0157/0769 0207/0623 0207/0628 0239/0118 0246/0814 0295/0836
A1: Rodney Steve Hogue Lease Rodney Steve Hogue	Antero Resources Corporation	1/8+	0347/0887

Neptune Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
E1: Mildred May Lambert Lease			
Mildred May Lambert	Oil Development Company	1/8	0157/0769
Oil Development Company	Alan Gable Oil Development Energy Trust	Assignment	0207/0623
Alan Gable Oil Development Energy Trust	GasSearch Corporation	Assignment	0207/0628
GasSearch Corporation	Linn Energy Holdings, LLC	Assignment	0239/0118
Linn Energy Holdings, LLC	XTO Energy, Inc.	Assignment	0246/0814
XTO Energy, Inc.	Antero Resources Corporation	Assignment	0295/0836
H: Laura M. Ulam Lease			
Laura M. Ulam	Antero Resources Corporation	1/8+	0317/0635
G2: William Moore and Melvina Moore Lease			
William Moore and Melvina Moore	Pittsburgh & West Virginia Gas Company	1/8	0045/0163
Pittsburgh & West Virginia Gas Company	A.W. Barnhart	Assignment	0046/0329
A.W. Barnhart	H.G. Hardbarger	Assignment	0083/0248
H.G. Hardbarger	Mossor Enterprises, Inc.	Assignment	0198/0193
Mossor Enterprises, Inc.	J. Frank Deem Et Al	Assignment	0201/0163
J. Frank Deem Et Al	J. F. Deem Oil & Gas, LLC	Assignment	0228/0230
J. F. Deem Oil & Gas, LLC	CHK Louisiana, LLC	Assignment	0247/0624
CHK Louisiana, LLC	Chesapeake Appalachia, LLC	Assignment	0247/0933
Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	0280/0707
SWN Production Company, LLC	Antero Resources Corporation	Assignment	0328/0780
G1: William Moore and Melvina Moore Lease			
William Moore and Melvina Moore	Pittsburgh & West Virginia Gas Company	1/8	0045/0163
Pittsburgh & West Virginia Gas Company	A.W. Barnhart	Assignment	0046/0329
A.W. Barnhart	H.G. Hardbarger	Assignment	0083/0248
H.G. Hardbarger	Mossor Enterprises, Inc.	Assignment	0198/0193
Mossor Enterprises, Inc.	J. Frank Deem Et Al	Assignment	0201/0163
J. Frank Deem Et Al	J. F. Deem Oil & Gas, LLC	Assignment	0228/0230
J. F. Deem Oil & Gas, LLC	CHK Louisiana, LLC	Assignment	0247/0624
CHK Louisiana, LLC	Chesapeake Appalachia, LLC	Assignment	0247/0933
Chesapeake Appalachia, LLC	SWN Production Company, LLC	Assignment	0280/0707
SWN Production Company, LLC	Antero Resources Corporation	Assignment	0328/0780
I: The Nature Conservancy Lease			
The Nature Conservancy	Antero Resources Corporation	Assignment	Pooled Tract
J: Ridgewood Development, LLC Lease			
Ridgewood Development, LLC	Antero Resources Corporation	1/8+	0346/0138
M: Bobby J. Bunner Lease			
Bobby J. Bunner	Antero Resources Corporation	1/8+	0338/0996
L: Booby J. Bunner Lease			
Bobby J. Bunner	Antero Resources Corporation	1/8+	0338/0990
P: ET Blue Grass, LLC Lease		on the same	Decide to be a second or
ET Blue Grass, LLC	Antero Resources Corporation	1/8+	0343/0564

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
R: Nancy Caroline Lawrence Mosley Lease Nancy Caroline Lawrence Mosley	Antero Resources Corporation	1/8+	0347/0900
<u>T: Judith A. Beary Lease</u> Judith A. Beary	Antero Resources Corporation	1/8+	0340/0260
S2: Neal Collins Lease Neal Collins	Antero Resources Corporation	1/8+	0344/0204
X: Linda Kay Smith Lease Linda Kay Smith	Antero Resources Corporation	1/8+	0346/0095
Y: Neal Collins Lease Neal Collins	Antero Resources Corporation	1/8+	0344/0204
Z: Wayne Douglas Stewart Lease Wayne Douglas Stewart	Antero Resources Corporation	1/8+	0337/0680
AA1: Charles A. Broadwater, Et Al Lease		- 10	
Charles A. Broadwater, Et Al	Roy Guthrie	1/8	0126/0720
Roy Guthrie Liberty Oil & Gas Company, Inc.	Liberty Oil & Gas Company, Inc. Loren E. Bagley & Richard Hudson	Assignment Assignment	0132/0228 0153/0459
Loren E. Bagley & Richard Hudson	Petromark, Inc.	Affidavit	0164/0746
Petromark, Inc.	Energy Processing, Inc.	Assignment	0210/0506
Energy Processing, Inc.	Antero Resources Corporation	Assignment	0313/0660
AB: Burl Dodd, Et Al Lease			
Burl Dodd, Et Al	Dennis D. Blauser	1/8	0118/0318
Dennis D. Blauser	Thomas H. Burrows	Assignment	0118/0792
Thomas H. Burrows	Cedar Petroleum	Assignment	0118/0790
Cedar Petroleum	Donald V. Belatini	Affidavit	0265/0645
Donald V. Belatini	Blauser Energy Corporation	Assignment	0169/0352
Blauser Energy Corporation	Antero Resources Corporation	Assignment	0265/0648

\*\*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.

<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>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.

WW-6A1 (5/13)

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Number .	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
AC: Antero Minerals, LLC Lease				
	Antero Minerais, LLC	Antero Resources Corporation	1/8+	0337/0042

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

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

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

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

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

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

Well Operator: Antero Resources Corporation

By: Max Green

Vice President of Land

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API NO. 47-085	_ 10537	
OPERATOR WE	L NO.	Neptune Unit 1H MOD
Well Pad Name	Hushe	r Pad

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

1) Well Operator:	Antero Res	ources Corpor	494507062	085 - Ritchie	Clay	Ellenboro 7.5'
• •			Operator ID	County	District	Quadrangle
2) Operator's Wel	l Number: Ne	eptune Unit 1H	MOD Well Pac	d Name: Hushe	er Pad	
3) Farm Name/Sur	rface Owner:	Richard E. Blou	ir et ux Public Roa	nd Access: Lam	berton Ro	<u>.</u>
4) Elevation, curre	ent ground:	1,007' As-Built ]	Elevation, proposed	post-construction	on:	
5) Well Type (a)	) Gas X	Oil _	Unde	erground Storag	e	
Ot	ther					
(b	)If Gas Sha	ıllow X	Deep			
	Ho	rizontal X				
6) Existing Pad: Y	es or No Yes	<u> </u>		_		
·	•	• • • • •	icipated Thickness a ness- 55 feet, Associa	-	` '	
8) Proposed Total	Vertical Dept	h: 7600' TVD				
9) Formation at To	otal Vertical D	epth: Marcelli	us			
10) Proposed Tota	l Measured D	epth: 31,400'	MD			
11) Proposed Hori	zontal Leg Le	ength: 20,666'	*Open to modific	cation at a later	date	
12) Approximate 1	Fresh Water S	trata Depths:	147', 406'	- M		
13) Method to Det	termine Fresh	Water Depths:	47085015510000, 470850888200	000Offset well records. Dept	hs have been adju	usted according to surface elevation
14) Approximate S	Saltwater Dep	ths: 1654'				
15) Approximate (	Coal Seam De	pths: N/A				
l6) Approximate l	Depth to Possi	ible Void (coal r	nine, karst, other):	None Anticipat	ed	
17) Does Proposed directly overlying				No	X	
(a) If Yes, provide	de Mine Info:	Name:				
		Depth:				of Oil and Gas
		Seam:			1/	NI 9 / 2025
		Owner:	-		Jr	114 # 1 LUES
		<u></u>	NT 403787	λ		Department of immental Protection
		$\cup$	N 1500			
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02/21/2025