

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 Mercury Unit 1H

47-085-10540-00-00

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: Mercury Unit 1H

Farm Name: Richard E Blouir ET UX

U.S. WELL NUMBER: 47-085-10540-00-00

Horizontal 6A New Drill

Date Modification Issued: 2-19-2025

Promoting a healthy environment.

API NO. 47- 085	_ 10540	
OPERATOR W	ELL NO.	Mercury Unit 1H MOD
Well Pad Nar	me: Hushe	r Pad

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

1) Well Operator: Antero Reso	ources Corporal	494507062	085 - Ritchie	Clay	Ellenboro 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: Me	rcury Unit 1H M	OD Well Pad	Name: Hushe	er Pad	
3) Farm Name/Surface Owner:	Richard E. Blouir	et ux Public Roa	d Access: Lam	berton Ro	
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	e	
(b)If Gas Shal		Deep			
6) Existing Pad: Yes or No Yes					
 Proposed Target Formation(s) Marcellus Shale: 7600' TVD, Ar 		•			
8) Proposed Total Vertical Depth	1: 7600' TVD				
9) Formation at Total Vertical De	epth: Marcellus	i			
10) Proposed Total Measured De	epth: 32,600' M	ID			
11) Proposed Horizontal Leg Ler	ngth: 22,440'	*Open to modific	ation at a later	date	
12) Approximate Fresh Water St	rata Depths:	147', 406'			
13) Method to Determine Fresh	Water Depths: 4	7085015510000, 470850888200	00 Offset well records. Dep	ths have been adju	isted according to surface elevations.
14) Approximate Saltwater Dept	hs: 1654'				
15) Approximate Coal Seam Dep	oths: N/A				
16) Approximate Depth to Possil	ole Void (coal mi	ne, karst, other):	None Anticipat	ted	
17) Does Proposed well location directly overlying or adjacent to		ns Yes	No	X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

Jenny Hart

OPERATOR WELL NO. Mercury 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#	6100'	6100'	CTS, 2484 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	32600'	32600'	CTS, 7287 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		

January Herce 1-31-25 Page 2 of 3

API NO. 47- 085 - 10540

OPERATOR WELL NO. Mercury 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.

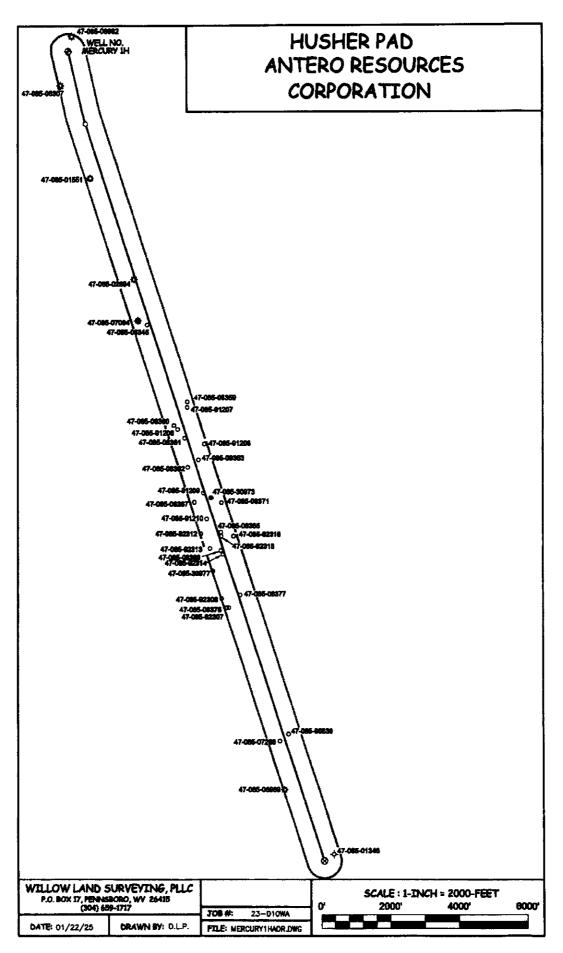
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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.

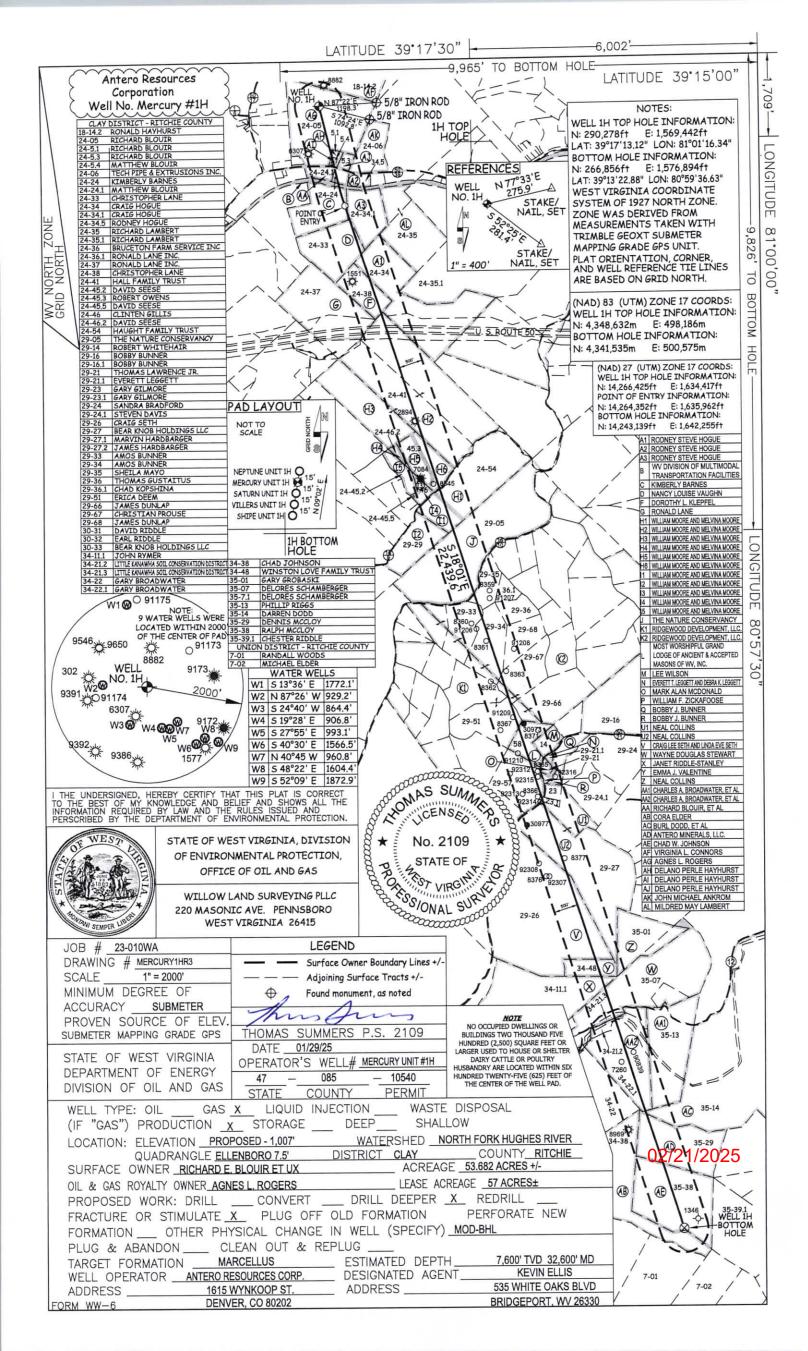
Jenny Shall

Page 3 of 3

^{*}Note: Attach additional sheets as needed.



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	ANJA RESOURCES	3,072	1210 - 2879	Salt Sands, Big Injun, Tiona	Weir, Benson, Alexander
	BLOUIR RE & M L	3	MUTSCHELKNAUS CLARENCE W	JENKINS ENERGY		4632 - 5704	Rig Injun, Riley, Benson, Rhinestreet	Weir, Benson, Alexander
47085015510000		1	LEMON PHILIP	LEMON PHILIP	1,945		Big Injun	Weir, Benson, Alexander
	WILLIAM MOORE HRS	2	MOSSOR W H	MOSSOR W H	2,095			
47085070840000	NAY EVA M AGENT	1A	STANDARD OIL CO INC	TOWER DRILLING	5,130	3300 - 5060	Udev, Lower Huron, Angola	Weir, Benson, Alexander
47085083450000	WILLIAM MOORE	1	APPLIED MECHANICS	APPLIED MECHANICS	1			
47085083590000	MCGINNIS	2	BIALEK OIL & GAS CORP	UNKNOWN				
47085912070000							THE RESERVE OF THE PARTY OF THE	
47085083600000	MCGINNIS	3	BIALEK OIL & GAS CORP	UNKNOWN				
47085912060000					200			
47085083610000		4	BIALEK OIL & GAS CORP	UNKNOWN				
47085912080000				The second second				
47085083630000	MCGINNIS	6	BIALEK OIL & GAS CORP	UNKNOWN		THE RESERVE OF THE RE		
47085083620000		5	BIALEK OIL & GAS CORP	UNKNOWN				
47085912090000								
47085083670000	COLUMN TO SECURE	10	BIALEK OIL & GAS CORP	UNKNOWN		Section of the sectio	THE RESERVE OF THE PARTY OF THE	
47085309730000	A V MCGINNIS HEIRS	3	CHALMERS OIL & GAS	CHALMERS OIL & GAS	1,950		Big Injun	Welr, Benson, Alexander
47085083710000	GINNIS MC	15	BIALEK OIL & GAS CORP	CHARITY GAS INC	1,950	AND DESCRIPTION OF THE PERSON		
47085912100000								MARKET CONTRACTOR
47085923120000				A STATE OF THE STA				
47085923130000								
47085083660000	MCGINNIS	9	BIALEK OIL & GAS CORP	UNKNOWN			THE RESERVE AND ADDRESS OF THE PARTY OF THE	
47085923140000								
47085309770000	T J MCDOUGAL	2	CHALMERS OIL & GAS	CHALMERS OIL & GAS	1,811			
47085086350000	MAXSON	2	KEY OIL CO	KEY OIL CO	5,347	3233 - 5099	Warren, Riley, Benson, Alexander	Weir
47085923160000			Property and the same of the s			TO SERVICE MENTERS OF THE PARTY		
47085923150000								
47085923080000			CHECK THE CONTRACT OF THE CONTRACT OF				THE RESERVE OF THE PARTY OF THE	
47085083760000	MCGINNIS	20/C&L	CHARITY GAS INC	UNKNOWN	0			
47085923070000								
47085083770000	MCGINNIS	21/C&L	CHARITY GAS INC	UNKNOWN			STATE OF THE PARTY OF THE PARTY.	Mark the property of the state
47085908390000								
47085072600000	BROADWATER ARNOLD	6	CHARITY GAS INC	PETRO-MARK INC	1,961	THE RESERVE OF THE PERSON NAMED IN		
47085089690000	ELDER CORA	5-279-2	STALNAKER ENERGY	STALNAKER ENERGY	5,286	2826 - 4900	Fifth, Elizabeth, Warren, Balltown, Riley, Benson	Weir, Alexander
47085013460000	R M CALHOUN ET AL	1	RICHARDS CONNARD W&J	RICHARDS CONNARD W&J	1,840			



Mercury 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
AG: Agnes L. Rogers Lease			
Agnes L. Rogers	Jenkins Energy Corporation	1/8	0204/0778
Jenkins Energy Corporation	Clarence W. Mutschelknaus	Assignment	0273/0692
Clarence W. Mutschelknaus	Antero Resources Corporation	Assignment	0274/1002
AH: Delano Perle Hayhurst Lease			
Delano Perle Hayhurst	Antero Resources Corporation	1/8+	0300/0649
Al: Delano Perle Hayhurst Lease			
Delano Perle Hayhurst	Antero Resources Corporation	1/8+	0300/0649
AA: Richard Blouir Et Al Lease			
Richard Blouir Et Al	Antero Resources Corporation	1/8+	0299/0762
C: Kimberly Barnes Lease			
Kimberly Barnes	Antero Resources Corporation	1/8+	0311/290
B: WV Division of Multimodal Transportation			
Facilities Lease			
WV Division of Multimodal Transportation			
Facilities	Antero Resources Corporation	1/8+	0336/0335
C: Kimberly Barnes Lease			
Kimberly Barnes	Antero Resources Corporation	1/8+	0311/0290
A3: Rodney Steve Hogue Lease			
Rodney Steve Hogue	Antero Resources Corporation	1/8+	0347/0887
D: Nancy Louise Vaughn Lease			
Nancy Louise Vaughn	Antero Resources Corporation	1/8+	0343/0647
A1: Rodney Steve Hogue Lease			
Rodney Steve Hogue	Antero Resources Corporation	1/8+	0347/0887
F: Dorothy L. Klepfel Lease			
Dorothy L. Klepfel	Antero Resources Corporation	1/8+	0343/0268
H2: 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	0348/0780

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
H5: 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	0348/0780
H1: 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	0348/0780
11: 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	0348/0780
J: The Nature Conservancy Lease			
The Nature Conservancy	Antero Resources Corporation	Assignment	Pooled Tract
K2: Ridgewood Development, LLC Lease			
Ridgewood Development, LLC	Antero Resources Corporation	1/8+	0346/0138
K1: Ridgewood Development, LLC Lease			
Ridgewood Development, LLC	Antero Resources Corporation	1/8+	0346/0138
L: Most Worshipful Grand Lodge of Ancient &			
Accepted Mason of WV, Inc. Lease			
Most Worshipful Grand Lodge of Ancient &			
Accepted Masons of WV, Inc.	Antero Resources Corporation	1/8+	0348/0806

Mercury Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
K1: Ridgewood Development, LLC Lease Ridgewood Development, LLC	Antero Resources Corporation	1/8+	0346/0138
U1: Neal Collins Lease Neal Collins	Antero Resources Corporation	1/8+	0344/0204
U2: Neal Collins Lease Neal Collins	Antero Resources Corporation	1/8+	0344/0204
V: Craig Lee Seth and Linda Eve Seth Lease Craig Lee Seth and Linda Eve Seth	Antero Resources Corporation	1/8+	0349/0227
Y: Emma J. Valentine Lease Emma J. Valentine	Antero Resources Corporation	1/8+	0354/0879
X: Janet Riddle-Stanley Lease Janet-Riddle Stanley	Antero Resources Corporation	1/8+	0352/0092
W: Wayne Douglas Stewart Lease Wayne Douglas Stewart	Antero Resources Corporation	1/8+	0337/0680
AA2: Charles A. Broadwater, Et Al Lease Charles A. Broadwater, Et Al Roy Guthrie Liberty Oil & Gas Company, Inc. Loren E. Bagley & Richard Hudson Petromark, Inc. Energy Processing, Inc. AC: Burl Dodd, Et Al Lease Burl Dodd, Et Al Dennis D. Blauser Thomas H. Burrows	Roy Guthrie Liberty Oil & Gas Company, Inc. Loren E. Bagley & Richard Hudson Petromark, Inc. Energy Processing, Inc. Antero Resources Corporation Dennis D. Blauser Thomas H. Burrows Cedar Petroleum	1/8 Assignment Assignment Assignment Assignment Assignment 1/8 Assignment Assignment	0126/0720 0132/0228 0153/0459 0164/0746 0210/0506 0313/0660 0118/0318 0118/0792 0118/0790
Cedar Petroleum Donald V. Belatini	Donald V. Belatini Blauser Energy Corporation Antero Resources Corporation	Assignment Assignment Assignment	0265/0645 0169/0352
AD: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8+	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.

^{*}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.

WW-6A1 (5/13)

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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
AE; Chad W. Johnson Lease				
	Ched W. Johnson	Antero Resources Corporation	1/8+	0346/0126

^{*}Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcelius and any other formations completed with this well.

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

**Pooling/Unitization — Antero has filed a horizoncal 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

Its:

Vice President of Land

Page 1 of 1