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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, May 1, 2024  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for CONKLIN UNIT 1H  
47-085-10510-00-00

**Lateral Extension/ Forced Pooling**

ANTERO RESOURCES CORPORATION

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

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

A handwritten signature in blue ink, appearing to read "James A. Martin", is written over a faint circular stamp.

James A. Martin  
Chief

Operator's Well Number: CONKLIN UNIT 1H  
Farm Name: MICHAEL UNDERWOOD ET AL  
U.S. WELL NUMBER: 47-085-10510-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 05/01/2024

Promoting a healthy environment.

05/03/2024

4708510510

WW-6B  
(04/15)

API NO. 47-085 - 10510  
OPERATOR WELL NO. Conklin Unit 1H MOD  
Well Pad Name: Pinewood Pad

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

- 1) Well Operator: Antero Resources Corporation 494507062 085 - Ritchie Clay Ellenboro 7.5'  
Operator ID County District Quadrangle
- 2) Operator's Well Number: Conklin Unit 1H MOD Well Pad Name: Pinewood Pad
- 3) Farm Name/Surface Owner: Michael Underwood Et Al Public Road Access: Pinewood Lane
- 4) Elevation, current ground: 1066' - AS BUILT Elevation, proposed post-construction: \_\_\_\_\_
- 5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#
- 8) Proposed Total Vertical Depth: 6700' TVD
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 24800' MD
- 11) Proposed Horizontal Leg Length: 16788' \*Open to modification at a later date
- 12) Approximate Fresh Water Strata Depths: 200', 378', 878'
- 13) Method to Determine Fresh Water Depths: 47085088860000, 47085077500000 Offset well records. Depths have been adjusted according to surface elevations.
- 14) Approximate Saltwater Depths: 1490'
- 15) Approximate Coal Seam Depths: N/A
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

CK # 4030601  
# 7500

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05/03/2024

WW-6B  
(04/15)

API NO. 47- 085 - 10510  
 OPERATOR WELL NO. Conklin Unit 1H MOD  
 Well Pad Name: Pinewood 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#	928'	928' ✓	CTS, 967 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3000'	3000' ✓	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	24800'	24800' ✓	CTS, 5321 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"	0.375"	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				RECEIVED Office of Oil and Gas APR 26 2024
Sizes:	N/A				WV Department of Environmental Protection
Depths Set:	N/A				

*James Paul*

4-23-2024

WW-6B  
(10/14)

API NO. 47- 085 - 10510

OPERATOR WELL NO. Conklin Unit 1H MOD

Well Pad Name: Pinewood 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): 19.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.21 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.

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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

WV Department of  
Environmental Protection

25) Proposed borehole conditioning procedures:

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

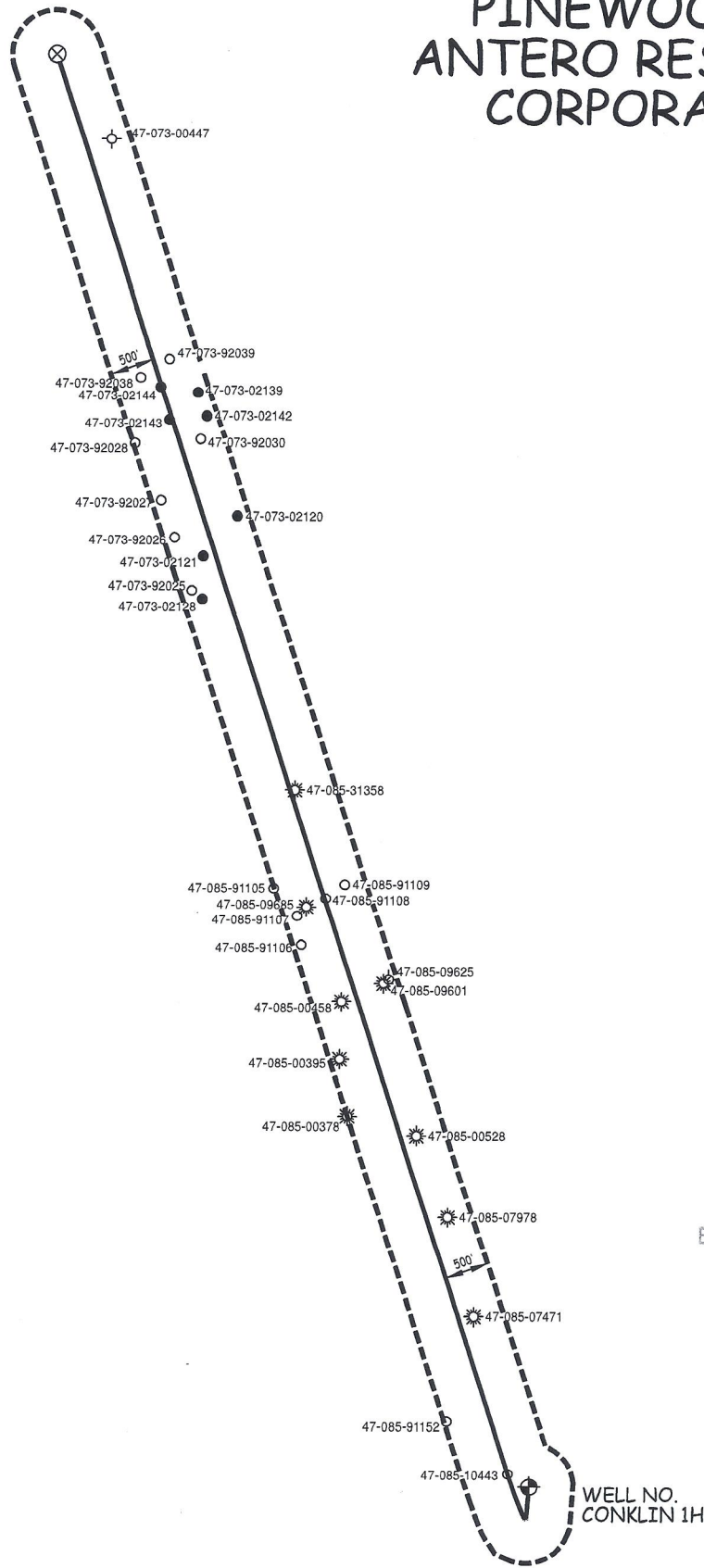
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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

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

\*Note: Attach additional sheets as needed.

# PINEWOOD PAD ANTERO RESOURCES CORPORATION



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WILLOW LAND SURVEYING, PLLC  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

JOB #: 23-024WA

DATE: 11/29/23

DRAWN BY: D.R.R.

FILE: CONKLIN1HAOR.DWG

SCALE : 1-INCH = 2000-FEET



UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085104430000	AR PINEWOOD	5V	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
47085911520000					1,755		Benson	Weir, Gordon, Alexander
47085003780000			COLT OIL CORP	UNKNOWN	1,876		Big Injun, Weir	Weir, Gordon, Benson, Alexander
47085003950000			COLT OIL CORP	UNKNOWN	1,840		Big Injun	Weir, Gordon, Benson, Alexander
47085004580000	W C BUTCHER	4	TRAXLER JOHN M	TRAXLER JOHN M				
47085911060000								
47085911070000								
47085096850000	COOL JOHN	2	KEY OIL CO	KEY OIL CO	4,920	4795 - 4798	Benson	Weir, Gordon, Alexander
47085911050000								
47073021280000	JAMES LAMP	3	BEECHLUCK OIL INC	BIG KNOT OIL CO				
47073920250000								
47073021210000	JOHN FRELAND	7	WV WELLS LTD	BIG KNOT OIL CO	2,006		Big Injun, Squaw	Weir, Gordon, Benson, Alexander
47073920260000								
47073920270000								
47073920280000								
47073021430000	R WEEKLEY HRS	3	WV WELLS LTD	BIG KNOT OIL CO	1,857		Big Injun	Weir, Gordon, Benson, Alexander
47073021440000	R WEEKLEY HRS	7	WV WELLS LTD	BIG KNOT OIL CO	1,809		2nd 3rd Salt Sand, Maxton, Big Injun	Weir, Gordon, Benson, Alexander
47073920380000								
47073004470000	EDNA MORGAN	1	SCOTT L V	SCOTT L V	1,930		Big Injun	Weir, Gordon, Benson, Alexander
47073920390000								
47073021390000	M RYAN	1	WV WELLS LTD	BIG KNOT OIL CO				
47073021420000	R WEEKLEY HRS	1	WV WELLS LTD	BIG KNOT OIL CO	1,806			
47073920300000								
47073021200000	JOHN FRELAND	6	WV WELLS LTD	BIG KNOT OIL CO	2,022			
4708513580000	HANLON J M WHALEY 2	2	HANLON OIL & GAS CO	HANLON OIL & GAS CO	1,912		Salt Sands, Keener	Weir, Gordon, Benson, Alexander
47085911090000								
47085911080000								
47085096250000	COOL JOHN	15	KEY OIL COMPANY	KEY OIL COMPANY	4845		Benson	
47085096010000	COOL JOHN	1	KEY OIL CO	KEY OIL CO	3,300			
47085005280000	W S CORBIN	1	UNKNOWN	TRAXLER JOHN M	1,737		Salt Sands	Weir, Gordon, Benson, Alexander
47085079780000	NICHOLS MICHAEL	5	HARPER CROSBY HOLDINGS LLC	RARE EARTH ENERGY	2,933	2005 - 2874	Big Injun, Weir, Gordon	Benson, Alexander
47085074710000	NICHOLS MICHAEL D ET AL	2	HARPER CROSBY HOLDINGS LLC	RARE EARTH ENERGY	5,207	2708 - 5088	Big Injun, Weir, Fifth, Riley, Alexander	Weir, Gordon, Benson

4708510510

05/03/2024

LATITUDE 39°20'00"

8,680'

LATITUDE 39°22'30" 2,557' TO BOTTOM HOLE

Antero Resources Corporation Well No. Conklin #1H

NOTES: WELL 1H TOP HOLE INFORMATION: N: 298,178ft E: 1,566,896ft LAT: 39°18'30.76" LON: 81°01'50.44" BOTTOM HOLE INFORMATION: N: 314,207ft E: 1,561,503ft LAT: 39°21'08.26" LON: 81°03'02.56" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 4,351,026m E: 497,370m BOTTOM HOLE INFORMATION: N: 4,355,882m E: 495,645m

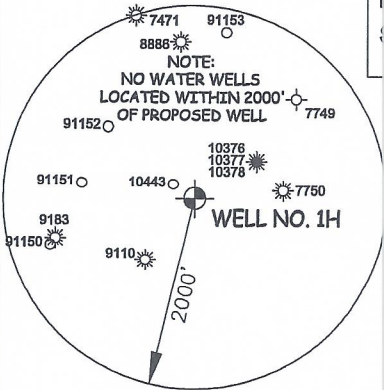
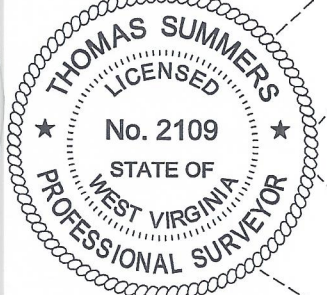
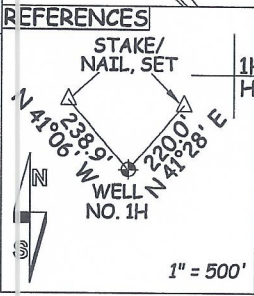
(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,274,278ft E: 1,631,739ft POINT OF ENTRY INFORMATION: N: 14,274,336ft E: 1,631,528ft BOTTOM HOLE INFORMATION: N: 14,290,210ft E: 1,626,082ft

WV NORTH ZONE GRID NORTH

Table listing landowners in Lafayette District, Pleasants County, WV, including names like Sheryl Byrd, Christopher Hackathorn II, Rex Cox, etc.

LESSOR table listing names from A to V, including Pamela L. Nichols, The Heplin Mineral Rights Partnership, Rex A. Cox and Pamela L. Cox, etc.

Table listing landowners in Clay District, Ritchie County, WV, including names like Kenneth Mossor, Consolidated Timberlands LLC, Donald Ritchey, etc.



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC, 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 23-024WA DRAWING # CONKLIN1HPR1 SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND: Surface Owner Boundary Lines +/-, Adjoining Surface Tracts +/-, Found monument, as noted. Signature of Thomas Summers.

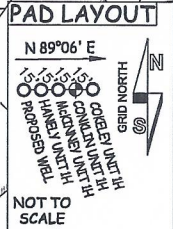
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS. WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 085 10510 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT

DATE 02/21/24 OPERATOR'S WELL# CONKLIN UNIT #1H

LOCATION: ELEVATION 1,066' - AS BUILT WATERSHED NORTH FORK HUGHES RIVER QUADRANGLE ELLENBORO 7.5' DISTRICT CLAY COUNTY RITCHIE SURFACE OWNER MICHAEL UNDERWOOD ET AL ACREAGE 50 ACRES +/- LEASE ACREAGE 266.83 ACRES±

PROPOSED WORK: DRILL DEEPER X REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL X (SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,700' TVD 24,800' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD

8,271' TO BOTTOM HOLE LONGITUDE 81°02'30" LONGITUDE 81°00'00"



COUNTY NAME PERMIT

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
<u>V: Ronnel Underwood Et Al Lease</u> Ronnel Underwood Et Al Walter C. Alkire The Walter C. Alkire, Jr. Family Trust	Walter C. Alkire The Walter C. Alkire, Jr. Family Trust Antero Resources Corporation	1/8 Agreement Assignment	0233/0273 0313/0400 0271/0834
<u>U: Ronnel Underwood Et Al Lease</u> Ronnel Underwood Et Al Walter C. Alkire The Walter C. Alkire, Jr. Family Trust	Walter C. Alkire The Walter C. Alkire, Jr. Family Trust Antero Resources Corporation	1/8 Agreement Assignment	0233/0273 0313/0400 0271/0834
<u>T: Steven Alkire Lease</u> Steven Alkire	Antero Resources Corporation	1/8+	0340/0291
<u>U: Ronnel Underwood Et Al Lease</u> Ronnel Underwood Et Al Walter C. Alkire The Walter C. Alkire, Jr. Family Trust	Walter C. Alkire The Walter C. Alkire, Jr. Family Trust Antero Resources Corporation	1/8 Agreement Assignment	0233/0273 0313/0400 0271/0834
<u>S: Ridgetop Capitol VI, LP Lease</u> Ridgetop Capitol VI, LP	Antero Resources Corporation	1/8+	0336/0893
<u>R: Ridgetop Capitol VI, LP Lease</u> Ridgetop Capitol VI, LP	Antero Resources Corporation	1/8+	0336/0887
<u>Q: Andrea S. Mahaney Lease</u> Andrea S. Mahaney	Antero Resources Corporation	1/8+	0336/0263
<u>R: Ridgetop Capitol VI, LP Lease</u> Ridgetop Capitol VI, LP	Antero Resources Corporation	1/8+	0336/0887
<u>N: Sarah B. Mihlbauer Et Al Lease</u> Sarah B. Mihlbauer Et Al Falcon Sciences, Inc. Colt Oil Corporation HERC Oil & Gas, LLC Black Fern Resources, LP Charles T. McCord, III Colt Oil Corporation Five Star Operating, Inc.	Falcon Sciences, Inc. Colt Oil Corporation HERC Oil & Gas, LLC Black Fern Resources, LP Charles T. McCord, III Colt Oil Corporation Five Star Operating, Inc. Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment	0150/0707 0172/0688 0282/0480 0313/0538 0331/0266 0331/0826 0334/0990 0343/0733
<u>O: Robert W. Ward, Jr. Lease</u> Robert W. Ward, Jr.	Antero Resources Corporation	1/8+	0341/0374
<u>L: Heritage Resources-Marcellus Minerals, L.C. Lease</u> Heritage Resources-Marcellus Minerals, LLC	Antero Resources Corporation	1/8+	0340/0664

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 APR 15 2024  
 WV Department of Environmental Protection



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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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b><u>K: J.R. Morrison Et Al Lease</u></b>			
J.R. Morrison Et Al	Shafer Gas & Oil Company	1/8	0152/0289
Shafer Gas & Oil Company	Earl Grissom	Agreement	0170/0017
Earl Grissom	Frank A. Browning	Agreement	0171/0119
Frank A. Browning	W.E.B. Well Trending Services	Assignment	0245/0256
W.E.B. Well Trending Services	Triad Energy Corporation	Assignment	0255/0669
Triad Energy Corporation	Triad Hunter, LLC	Assignment	0277/0482
Triad Hunter, LLC	Blue Ridge Mountain Resources, Inc.	Assignment	0344/0319
Blue Ridge Mountain Resources, Inc.	Eclipse Resources I, LP	Assignment	0344/0312
Eclipse Resources I, LP	Antero Resources Corporation	Assignment	Pooled Tract
<b><u>J: Donna Mossor Lease</u></b>			
Donna Mossor	Antero Resources Corporation	1/8+	0359/0540
<b><u>I: Ada Weekly Et Al Lease</u></b>			
Ada Weekly Et Al	R.T. Browse and B.H. Hall	1/8	0037/0326
R.T. Browse and B.H. Hall	H.J. Varner, J.M. Varner, J.M. Gruver and M.L. Zahnizer	Assignment	0038/0073
H.J. Varner, J.M. Varner, J.M. Gruver and M.L. Zahnizer	H.W. Master	Assignment	0045/0135
H.W. Master	Harry Gore	Assignment	0048/0386
Harry Gore	J. Howard McBride, et ux	Assignment	0048/0387
J. Howard McBride, et ux	James Heneghan and E. I. Hanlon	Assignment	0056/0198
James Heneghan and E. I. Hanlon	Heneghan & Hanlon Inc	Assignment	0066/0061
Heneghan & Hanlon Inc	E.I. Hanlon	Assignment	0086/0115
E.I. Hanlon	Hanlon Oil Company	Assignment	0086/0467
Hanlon Oil Company	Charles E. Reed	Assignment	0120/0003
Charles E. Reed	Chief Drilling Inc.	Assignment	0120/0031
Chief Drilling Inc.	Ralph J. Hunter	Assignment	0125/0344
Ralph J. Hunter	Big Knot Oil Company Inc	Assignment	0125/0340
Big Knot Oil Company Inc	Glass Development Company	Assignment	0286/0538
Glass Development Company	Noble Energy	Assignment	0300/0156
Noble Energy	CNX Gas Company LLC	Assignment	0311/0670
CNX Gas Company LLC	Antero Resources Corporation	Assignment	Pooled Tract
<b><u>H: Ira M. Haught Lease</u></b>			
Ira M. Haught	Antero Resources Corporation	1/8+	0338/0586
<b><u>B: The Heflin Mineral Rights Partnership Lease</u></b>			
The Heflin Mineral Rights Partnership	Antero Resources Corporation	1/8+	0356/0412
<b><u>C: Rex A. Cox and Pamela L. Cox Lease</u></b>			
Rex A. Cox and Pamela L. Cox	Antero Resources Corporation	1/8+	0353/0394

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Office of Oil and Gas  
APR 15 2024  
WV Department of Environmental Protection

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

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- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
A: <u>Pamela L. Nichols Lease</u>	Pamela L. Nichols	Antero Resources Corporation	1/8+	0350/0297

\*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 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

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Office of Oil and Gas  
APR 15 2014  
WV Department of  
Environmental Protection

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

Well Operator: Antero Resources Corporation  
 By: Max Green  
 Its: Vice President of Land