



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

Monday, May 20, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for McKINNEY UNIT 1H
47-085-10513-00-00

Lateral Extension

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 blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: McKINNEY UNIT 1H
Farm Name: MICHAEL UNDERWOOD ET AL
U.S. WELL NUMBER: 47-085-10513-00-00
Horizontal 6A New Drill
Date Modification Issued: 5/20/2024

Promoting a healthy environment.

05/24/2024

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: McKinney 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 X Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow X Deep _____
Horizontal X _____
- 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: 27000' MD
- 11) Proposed Horizontal Leg Length: 17488' *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 X

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

CK # 4030603
7500⁰⁰

RECEIVED
Office of Oil and Gas
MAY 06 2024
WV Department of
Environmental Protection

Gregory Neal 5-2-2024

05/24/2024

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#	27000'	27000' ✓	CTS, 5876 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
Sizes:	N/A				MAY 06 2024
Depths Set:	N/A				WV Department of Environmental Protection

Gregory Hill

5-2-2024

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.

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

RECEIVED
Office of Oil and Gas

MAY 06 2024

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.

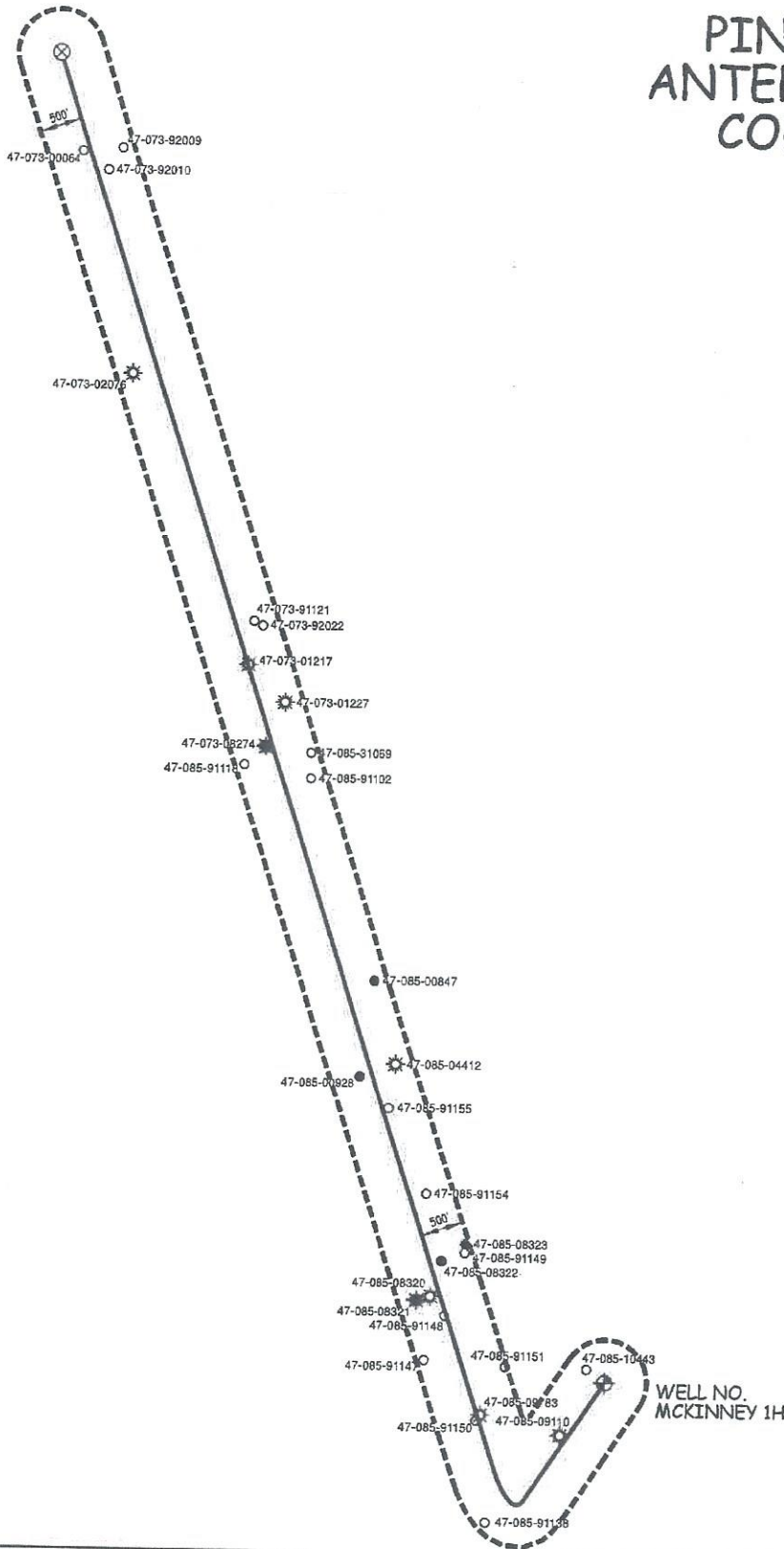
*Note: Attach additional sheets as needed.



5-2-2024

05/24/2024

PINEWOOD PAD ANTERO RESOURCES CORPORATION



RECEIVED
Office of Oil and Gas
MAY 06 2024
WV Department of
Environmental Protection

J. R.

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

JOB #: 23-026WA

FILE: MCKINNEY1HAOR.DWG

DATE: 11/28/23

DRAWN BY: D.R.R.

SCALE : 1-INCH = 2000-FEET



05/24/2024

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Productible Formation(s) not perf'd
47085104430000	AR PINEWOOD	5V	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP				
47085911380000								
47085911500000								
47085911470000								
47085911480000								
47085083210000	MOSSOR KENNETH	2	KENNETH EVERETT MOSSOR	MOSSOR KENNETH				
47085083200000	MOSSOR KENNETH	1	KENNETH EVERETT MOSSOR	MOSSOR KENNETH				
47085002800000	J MIHLBAUER	3	HALL JAMES H	HALL JAMES H	1,806		Keener	Weir, Gordon, Benson, Alexander
47085911180000								
47073082740000								
47073020760000	JAY ROBERT & MADGE	1	SCHULTZ RUN GAS	PARDEE GAS	5,169	4931 - 4937		Weir, Gordon, Benson, Alexander
47073000640000	N H WILLIAMSON	1	UNKNOWN	UNKNOWN				
47073920100000								
47073911210000								
47073920220000								
47073012170000	MORRISON J R	1	PIN OAK OPERATING LLC	SHAFFER OIL & GAS	4,855	2790 - 4843	Squaw	Weir, Gordon, Benson, Alexander
47073012270000	MORRISON J R	2	PIN OAK OPERATING LLC	KLONDIKE DEVELOPMENT	5,003	2734 - 4894	Big Injun	Weir, Gordon, Benson, Alexander
47085310690000								
47085911020000								
47085008470000	W C BUTCHER	5	COLT OIL CORP	FALCON SCIENCES INC	1,746		Keener	Weir, Gordon, Benson, Alexander
47085044120000	MCKINNEY DELMAS	1	COLT OIL CORP	KEY OIL INC	2,888	2190 - 2674	Big Injun, Weir, Berea, Thirty Foot, Gordon	Benson, Alexander
47085911550000								
47085911540000								
47085083230000	MOSSOR	4	KENNETH EVERETT MOSS	MOSSOR KENNETH	1,927		Keener	Weir, Gordon, Benson, Alexander
47085911490000								
47085083220000	MOSSOR	3	KENNETH EVERETT MOSS	MOSSOR KENNETH			Keener	Weir, Gordon, Benson, Alexander
47085911510000								
47085091830000								
47085091100000								

RECEIVED
Office of Oil and Gas
APR 29 2024
WV Department of
Environmental Protection

05/24/2024

LATITUDE 39°20'00"

8,695'

LATITUDE 39°22'30" 3,842' TO BOTTOM HOLE

Antero Resources Corporation
Well No. McKinney #1H

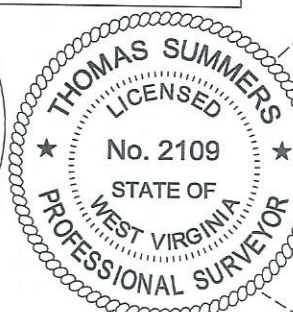
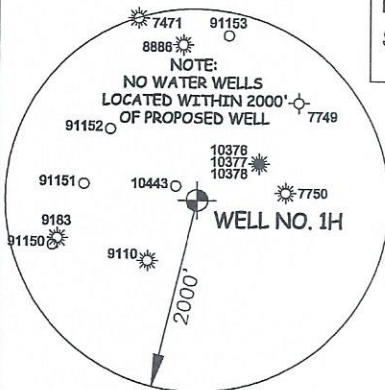
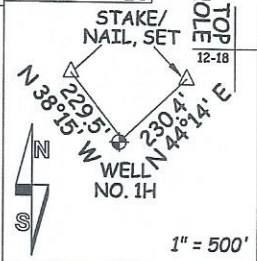
NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 298,178ft E: 1,566,881ft
LAT: 39°18'30.75" LON: 81°01'50.63"
BOTTOM HOLE INFORMATION:
N: 313,755ft E: 1,560,210ft
LAT: 39°21'03.57" LON: 81°03'18.91"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT 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: 497,365m
BOTTOM HOLE INFORMATION:
N: 4,355,738m E: 495,254m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,274,278ft E: 1,631,724ft
POINT OF ENTRY INFORMATION:
N: 14,273,197ft E: 1,630,462ft
BOTTOM HOLE INFORMATION:
N: 14,289,736ft E: 1,624,797ft

NOTE
NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

REFERENCES



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 PERSCRIBED 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 # 23-026WA
DRAWING # MCKINNEY1HPR1
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND
--- Surface Owner Boundary Lines +/-
--- Adjoining Surface Tracts +/-
⊕ Found monument, as noted
THOMAS SUMMERS P.S. 2109
DATE 02/21/24
OPERATOR'S WELL# MCKINNEY UNIT #1H

Table listing landowners in Clay District, Ritchie County and Lafayette District, Pleasants County.

Table listing lessors A through V, including names like Pamela L. Nichols, Antero Minerals, LLC, etc.

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 085 - 10513
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
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 +/-
OIL & GAS ROYALTY OWNER RONNEL L. UNDERWOOD ET AL LEASE ACREAGE 266.83 ACRES

PROPOSED WORK: DRILL ___ CONVERT ___ 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 27,000' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS
ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

05/24/2024

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	1/8	0233/0273
Walter C. Alkire	The Walter C. Alkire, Jr. Family Trust	Agreement	0313/0400
The Walter C. Alkire, Jr. Family Trust	Antero Resources Corporation	Assignment	0271/0834
<u>S: Ronnel Underwood Et Al Lease</u>			
Ronnel Underwood Et Al	Walter C. Alkire	1/8	0199/0020
Walter C. Alkire	The Walter C. Alkire, Jr. Family Trust	Agreement	0313/0400
The Walter C. Alkire, Jr. Family Trust	Antero Resources Corporation	Assignment	0271/0834
<u>T: M.B. Leaseburg Et Ux Lease</u>			
M.B. Leaseburg Et Ux	A.C. Mercer	1/8	0080/0261
A.C. Mercer	Florizel Woodford	Assignment	0080/0267
Florizel Woodford	Rich Oil & Gas Company	Assignment	0081/0236
Rich Oil & Gas Company	W.H. Mossor	Assignment	0098/0256
W.H. Mossor	J&J Enterprises, Inc.	Assignment	0133/0004
J&J Enterprises, Inc.	Term Energy Corporation	Assignment	0172/0336
Term Energy Corporation	Antero Resources Corporation	Assignment	0283/0595
<u>R: Rose Alkire Et Al Lease</u>			
Rose Alkire Et Al	Walter C. Alkire	1/8	0143/0521
Walter C. Alkire	The Walter C. Alkire, Jr. Family Trust	Agreement	0313/0400
The Walter C. Alkire, Jr. Family Trust	Antero Resources Corporation	Assignment	0289/0050
<u>P: Steven Alkire Lease</u>			
Steven Alkire	Antero Resources Corporation	1/8+	0340/0291
<u>O: Nathanel Lyle Mason Lease</u>			
Nathanel Lyle Mason	Antero Resources Corporation		Pending Pooling Application
<u>N: Sarah B. Mhlbauer Et Al Lease</u>			
Sarah B. Mhlbauer Et Al	Falcon Sciences, Inc.	1/8	0150/0707
Falcon Sciences, Inc.	Colt Oil Corporation	Assignment	0172/0688
Colt Oil Corporation	HERC Oil & Gas, LLC	Assignment	0282/0480
HERC Oil & Gas, LLC	Black Fern Resources, LP	Assignment	0313/0538
Black Fern Resources, LP	Charles McCord, III	Assignment	0331/0266
Charles McCord, III	Colt Oil Corporation	Assignment	0331/0826
Colt Oil Corporation	Five Star Operating, Inc.	Assignment	0334/0990
Five Star Operating, Inc.	Antero Resources Corporation	Assignment	0343/0733
<u>M: Sheila R. McDonald Lease</u>			
Sheila R. McDonald	Antero Resources Corporation	1/8+	0331/0857

RECEIVED
Office of Oil and Gas
APR 29 2024
WV Department of
Environmental Protection

05/24/2024

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>K: J.R. Morrison Et Al Lease</u>			
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
<u>J: Riverside Resources, LLC Lease</u>			
Riverside Resources, LLC	Antero Resources Corporation	1/8+	0357/0019
<u>G: Ada Weekly Et Al Lease</u>			
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
<u>H: Robert H. Jay and Madge V. Jay Lease</u>			
Robert H. Jay and Madge V. Jay	Pardee Gas Company	1/8	0219/0454
Pardee Gas Company	Pardee Exploration Company	Merge	0228/0648
Pardee Exploration Company	Pardee Resource Group	Merge	0007/0346
Pardee Resource Group	Pardee Minerals, LLC	Assignment	0006/0726
Pardee Minerals, LLC	Irish Resources, Inc.	Assignment	0298/0435
Irish Resources, Inc.	Antero Resources Corporation	Assignment	0300/0449
<u>D: Sonya G. Poling Lease</u>			
Sonya G. Poling	Antero Resources Corporation	1/8+	0350/0634
<u>B: Antero Minerals, LLC Lease</u>			
Antero Minerals, LLC	Antero Resources Corporation	1/8+	0353/0003

RECEIVED
Office of Oil and Gas
APR 29 2024
WV Department of
Environmental Protection

05/24/2024

**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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
A: Pamela L. Nichols Lease				
	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

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.

RECEIVED
Office of Oil and Gas
APR 29 2024
WV Department of
Environmental Protection

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



April 26, 2024

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Mr. Taylor Brewer
601 57th Street
Charleston, WV 25304

Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modification for approved well on the existing Pinewood Pad: McKinney Unit 1H (47-085-10513) Expedited.

Attached you will find the following:

- AOR
- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat

If you have any questions please feel free to contact me at (303) 357-6959.

Thank you in advance for your consideration.

Sincerely,

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

Enclosures

RECEIVED
Office of Oil and Gas
APR 29 2024
WV Department of
Environmental Protection

05/24/2024