



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

Tuesday, June 7, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for SMELT 1H
47-085-10423-00-00

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.

A blue ink signature of James A. Martin, Chief. The signature is written in a cursive style and is positioned above the name and title.

James A. Martin
Chief

Operator's Well Number: SMELT 1H
Farm Name: ELMER W PIERCE
U.S. WELL NUMBER: 47-085-10423-00-00
Horizontal 6A New Drill
Date Modification Issued: 6/7/2022

Promoting a healthy environment.

06/10/2022

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

1) Well Operator: Antero Resources Corpora 494507062 085-Ritchie Union Oxford 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Smelt Unit 1H MOD Well Pad Name: Cashew Pad

3) Farm Name/Surface Owner: Elmer W. Pierce Public Road Access: Pleasant Hollow Road

4) Elevation, current ground: 1040' Elevation, proposed post-construction: ~1019'

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: 6900' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 6900' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23,200' MD

11) Proposed Horizontal Leg Length: 13,654.5'

12) Approximate Fresh Water Strata Depths: 53', 236'

13) Method to Determine Fresh Water Depths: 47-085-07654, 47-085-03102

14) Approximate Saltwater Depths: 1709', 1847'

15) Approximate Coal Seam Depths: None Identified

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: _____

RECEIVED
Office of Oil and Gas
MAY 31 2022
WV Department of
Environmental Protection

SM 5/26/22 06/10/2022

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	79#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	300	300	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	23,200	23,200	CTS, 4929 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	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~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			

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): 33.75 acres

22) Area to be disturbed for well pad only, less access road (acres): 14.29 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 cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A 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.

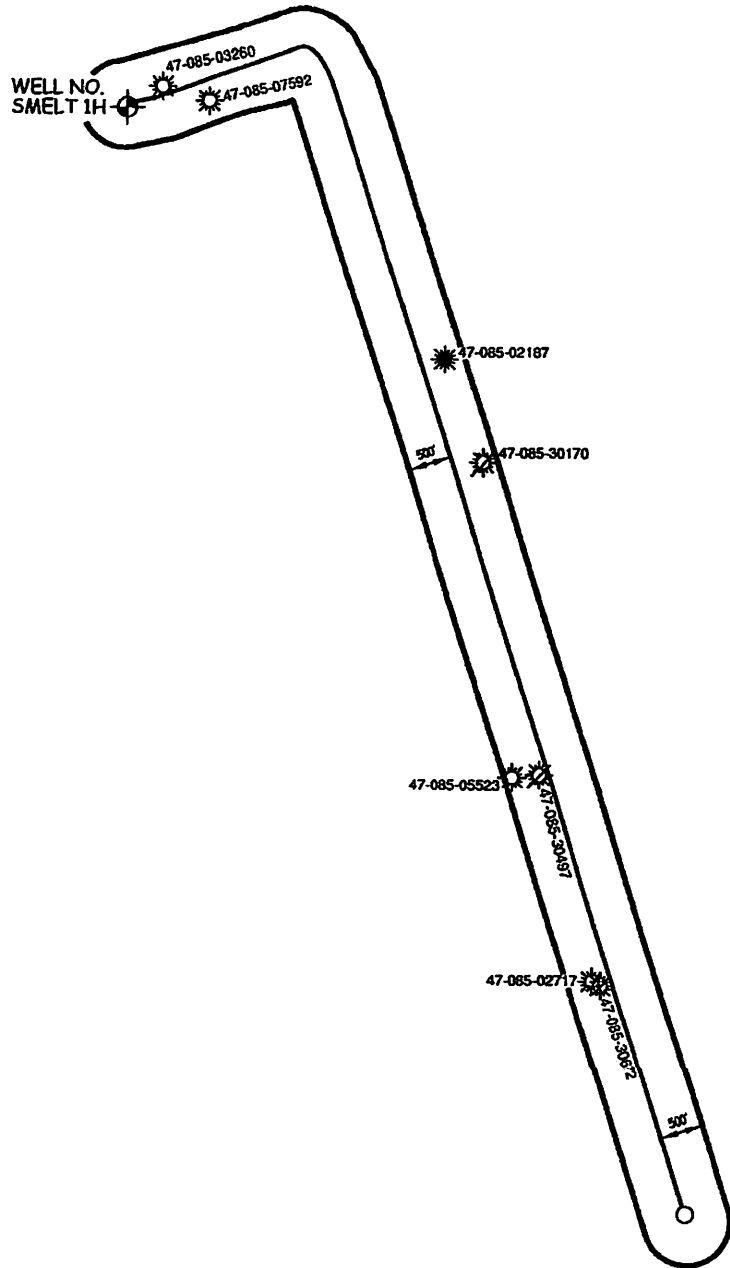
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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.

CASHEW PAD ANTERO RESOURCES CORPORATION



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

DATE: 05/18/22

DRAWN BY: D.L.P.

JOB #: 22-005WA

FILE: SMELT1HAOR.DWG

SCALE : 1-INCH = 2000-FEET



SM 5/25/22

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017021870000	H J PIERCE	1	DIVERSIFIED PROD LLC	UNITED OPERATING CO	2,224		Weir	Big Injun, Pocono
47085032600000	R L KEISTER	3	R & R OIL & GAS LLC	OIL STATES SALES	2,013		Big Injun	Pocono
47017301700000	HENRY HESS 1	4887	PITTSBURGH&W VA GAS	PITTSBURGH&W VA GAS	1,905		Big Injun	Pocono
47085075920000	JETT MYRTLE ET AL	1	STALNAKER GENE INC	JETT MYRTLE ET AL	5,231	3800 - 5200	Riley, Lower Huron, Benson, Angola	Pocono
47085055290000	DEBERRY LUCILLE C	12757	ROSS & WHARTON GAS	CONSOL GAS SUPPLY CRP	5,036	1894 - 1924	Weir	Big Injun, Benson, Alexander
47085304970000	LUCILLE DEBERRY	3	DEEM F S	DEEM F S				Pocono
47085027170000	J I PIERCE	2	DALE DAVID DBA DD OI	LYNCH BRENNIE	2,460		Big Injun	Benson, Alexander
47085306720000	J I PIERCE 1	4899	PITTSBURGH&W VA GAS	PITTSBURGH&W VA GAS	2,018		Big Injun	Benson, Alexander

SM 5/26/22

LATITUDE 39°12'30"

6,958'

229' TO BOTTOM HOLE

LATITUDE 39°10'00"

Antero Resources Corporation Well No. Smelt 1H

NOTES: WELL 1H TOP HOLE INFORMATION: N: 247,495ft E: 1,615,032ft LAT: 39°10'17.52" LON: 80°51'28.35" BOTTOM HOLE INFORMATION: N: 234,720ft E: 1,621,572ft LAT: 39°08'12.22" LON: 80°50'02.91" 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: 4,335,831m E: 512,292m BOTTOM HOLE INFORMATION: N: 4,331,972m E: 514,349m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,224,424ft E: 1,680,697ft POINT OF ENTRY INFORMATION: N: 14,224,686ft E: 1,683,048ft BOTTOM HOLE INFORMATION: N: 14,211,765ft E: 1,687,446ft

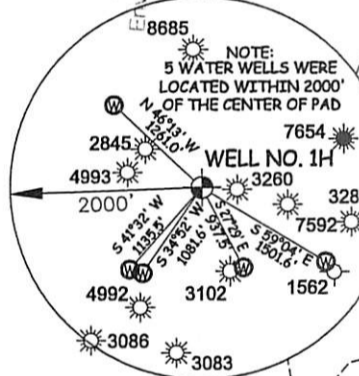
NOTE: NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

Table with 2 columns: Southwest District - Doddridge County and Union District - Ritchie County. Lists well numbers and names of owners/leases.

WV NORTH ZONE GRID NORTH

RECEIVED Office of Oil and Gas MAY 20 2022

WV Department of Environmental Protection



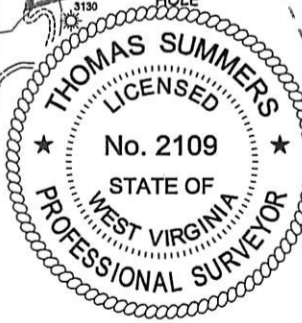
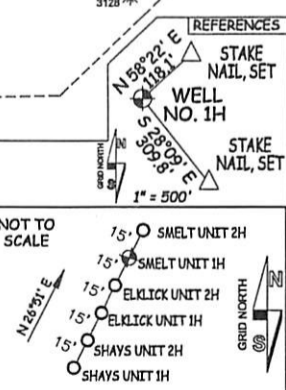
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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 # 21-015WA DRAWING # SMELT1HR2 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 05/16/22 OPERATOR'S WELL# SMELT 1H



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 085 - 10423 MOD (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,040' - ORIGINAL 1,019' - PROPOSED WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE OXFORD 7.5' DISTRICT UNION COUNTY RITCHIE SURFACE OWNER ELMER W. PIERCE ACREAGE 67.78 ACRES +/- OIL & GAS ROYALTY OWNER R. F. KEISTER ET AL; B. GUY WHITEHAIR ET UX; RALPH JETT ET UX; LEASE ACREAGE 70 AC.±; 17 AC.±; 148 AC.±; DAVID D. BALL, JR.; ENID W. ZINN ET AL; JAY-BEE ROYALTY, LLC; T. M. GRIFFIN ET UX; JAMES V. PIERCE ET UX; WALLACE B. HAUGHT ET AL; 260 AC.±; 40 AC.±; 38 AC.±; 140 AC.±; 31 AC.±; 100 AC.±; E. W. SUMMERS ET UX; LUCILLE DEBERRY; MARY LUCILLE DEBERRY; ANTERO MINERALS LLC; LUCILLE DEBERRY ET VIR 125 AC.±; 46.79 AC.±; 147 AC.±; 107.16 AC.±; 90 AC.± PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,900' TVD 23,200' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

10,904' TO BOTTOM HOLE

13,404'

LONGITUDE 80°50'00"

LONGITUDE 80°50'00"

06/10/2022

COUNTY NAME

PERMIT

LATITUDE 39°12'30"

6,958'

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Table listing landowners and lease information for various tracts. Columns include District (Southwest or Union), Tract Number, and Owner Name. Owners listed include David Ball, Trustees of Baptist Church, South Fork Cemetery, Kevin Ball, Isaac Richards, James Haught, Jeffrey Bailey, Brown Goodwin, Charles Leonard, Arden Cogar, Danita Hiley, Larry Gander, WF Smith, Lois Gander, Elmer Pierce, Larry Gander, Brian Vansant, Brian Vansant, Brian Vansant, Brian Vansant, Brian Vansant, Brian Vansant, James Beck, Harvey Shepler, James Beck, Brian Harriman, Mark Vansant, Danita Hiley, Brian Harriman, Randall Hess, Steven Lusk, Kenny Osbourne, Kenny Osbourne, Kenny Osbourne, Kent Grotjan, Joshua Friedman, Miles Ball, M E Church, Kenny Osbourne, Kenny Osbourne, Brian Vansant, James Haught, Miles Ball, Kent Grotjan, Douglas Maxson, Douglas Maxson, Douglas Maxson, Mary Deberry, Linda Jennings, Clarence Bush, Patricia Shepler, Daryl Shepler, Terrell Henderson, Sami Tralano, Sami Tralano, Sami Tralano, Clarence Bush, Jon Bonnell, Jon Bonnell, Daryl Shepler, Darlene Nailor, Harold Pierce, WV DOT.

WV NORTH ZONE GRID NORTH

10,904' TO BOTTOM HOLE

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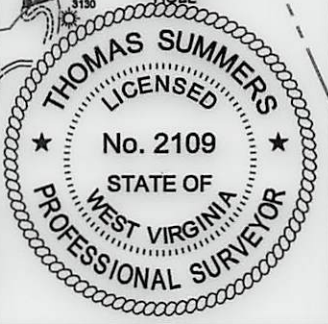
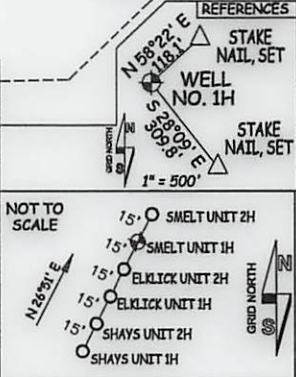
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STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 05/16/22 OPERATOR'S WELL# SMELT 1H



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05/10/2022

COUNTY RITCHIE 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>R.F. Keister, et al Lease</u>			
R.F. Keister, et al	G.L. Yaste	1/8	0105/0504
G.L. Yaste	D.L.Y., Inc.	Assignment	0112/0302
D.L.Y.m Inc.	Betty Jean Stalkner and Rosalee Roberts	Assignment	0132/0565
Betty Jean Stalkner and Rosalee Roberts	R & S Gas Company	Assignment	0147/0548
R & S Gas Company	BET-RO Inc	Assignment	0147/0554
BET-RO Inc	Roberts Energy Corporation	Assignment	0240/0036
Roberts Energy Corporation	Antero Resources Corporation	Assignment	0329/0138
<u>B. Guy Whitehair Lease</u>			
B. Guy Whitehair, et ux	L.E. Mossor and Harry Haddox	1/8	0107/0343
L.E. Mossor and Harry Haddox	Francis Friestad	Assignment	0089/0497
Francis Friestad	W.H. Thomson	Assignment	0152/0213
W.H. Thomson	BET-RO Inc	Assignment	0177/0011
BET-RO Inc.	Jesam Energy	Assignment	0204/0134
Jesam Energy	Roberts Energy	Assignment	0204/0705
Roberts Energy	Key Oil Company	Assignment	0258/0619
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0263/0629
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
<u>Ralph Jett, et ux Lease</u>			
Ralph Jett, et ux	W.R. Development Co. Inc.	1/8	0191/0378
W.R. Development Co. Inc.	Whittle Corporation	Assignment	0254/0910
Whittle Corporation	Antero Resources Appalachian Corporation	Assignment	0255/0526
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0702
<u>David D. Ball, et ux Lease</u>			
David Dale Ball Jr.	Antero Resources Corporation	1/8+	04170123
<u>Enid W. Zinn et al Lease</u>			
Enid W. Zinn, et al	Consolidated Gas Supply Corporation	1/8	0103/0080
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0139/0041
CNG Development Company	CNG Producing Company	Merger	0167/0210
CNG Producing Company	Dominion Exploration and Production, Inc	Merger	0049/0340
Dominion Exploration and Production, Inc	CONSOL Gas Company	Name Change	0293/0252
CONSOL Gas Company	CNX Gas Company	Merger	0293/0252
CNX Gas Company	Antero Resources Corporation	Assignment	0409/0672
<u>Jay-Bee Royalty, LLC Lease</u>			
Jay-Bee Royalty, LLC	Antero Resources Corporation	1/8+	0330/0506

5/26/23 SM
06/10/2022

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>T.M. Griffin, et ux Lease</u>			
T.M. Griffin, et ux	The Philadelphia Company of West Virginia	1/8	0029/0385
The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	Assignment	0032/0253
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	Conveyance	0126/0473
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	EQT Capital Corporation	Merger	0006/0751
EQT Capital Corporation	Equitable Resources, Inc.	Merger	0023/0032
Equitable Resources, Inc.	Equitrans, LP	Assignment	0329/0645
Equitrans, LP	Equitable Production - Eastern States, Inc	Assignment	0234/0830
Equitable Production - Eastern States, Inc	Equitable Production Company	Merger	0281/0346
Equitable Production Company	EQT Production Company	Name Change	0218/0346
<u>EQT Production Company</u>	Antero Resources Corporation	Assignment	0323/0964
<u>Enid W. Zinn et al Lease</u>			
Enid W. Zinn, et al	Consolidated Gas Supply Corporation	1/8	0103/0080
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0139/0041
CNG Development Company	CNG Producing Company	Merger	0167/0210
CNG Producing Company	Dominion Exploration and Production, Inc	Merger	0049/0340
Dominion Exploration and Production, Inc	CONSOL Gas Company	Name Change	0293/0252
CONSOL Gas Company	CNX Gas Company	Merger	0293/0252
CNX Gas Company	Antero Resources Corporation	Assignment	0409/0672
<u>James V. Pierce, et ux Lease</u>			
James V. Pierce	Consolidated Gas Supply Corporation	1/8	0102/0228
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0139/0041
CNG Development Company	CNG Producing Company	Merger	0167/0210
CNG Producing Company	Dominion Exploration and Production, Inc	Merger	0049/0340
Dominion Exploration and Production, Inc	CONSOL Gas Company	Name Change	0293/0252
CONSOL Gas Company	CNX Gas Company	Merger	0293/0252
CNX Gas Company	Antero Resources Corporation	Assignment	0409/0672
<u>Wallace B Haught, et al Lease</u>			
Wallace B. Haught, et al	Consolidated Gas Supply Corporation	1/8	0095/0375
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0139/0041
CNG Development Company	CNG Producing Company	Merger	0167/0210
CNG Producing Company	Dominion Exploration and Production, Inc	Merger	0049/0340
Dominion Exploration and Production, Inc	CONSOL Gas Company	Name Change	0293/0252
CONSOL Gas Company	CNX Gas Company	Merger	0293/0252
CNX Gas Company	Antero Resources Corporation	Assignment	0409/0672

06/10/2022
5/20/22
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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
<u>E.W. Summers, et ux Lease</u>			
E.W. Summers, et ux	G.W. Thompson	1/8	0025/0260
G.W. Thompson	The Philadelphia Company of West Virginia	Assignment	Unrecorded
The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	Assignment	0032/0253
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	Conveyence	0126/0473
Equitable Gas Company	Equitrans, Inc	Assignment	0154/0475
Equitrans, Inc	EQT Capital Corporation	Merger	0006/0751
EQT Capital Corporation	Equitable Resources, Inc	Merger	0023/0032
Equitable Resources, Inc	Equitrans, LP	Assignment	0329/0645
Equitrans, LP	Equitable Production – Eastern States, Inc	Assignment	0234/0830
Equitable Production – Eastern States, Inc	Equitable Production Company	Merger	0218/0346
Equitable Production Company	EQT Production Company	Name Change	0218/0346
EQT Production Company	Antero Resources Corporation	Assignment	0487/0641
<u>Lucille DeBerry Lease</u>			
Lucille DeBerry, widow	Consolidated Gas Supply Corporation	1/8	0096/0201
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0332/0563
CNG Transmission Corporation	Mike Ross Inc	Assignment	0227/0130
Mike Ross Inc	Antero Resources Corporation	Assignment	0455/0632
<u>Mary Lucille DeBerry Lease</u>			
Mary Lucille De Berry	Antero Resources	1/8+	0330/0338
<u>Antero Minerals, LLC Lease</u>			
Antero Minerals, LLC	Antero Resources Corporation	1/8	0394/0103

*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.

06/10/2022
 SM 5/26/22

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Lucille Deberry, et vir Lease</u>				
	Lucille Deberry, et vir	Hope Natural Gas Company	1/8	0081/0474
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Name Change	WV SOS
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0169/0756
	Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
	CNG Development Company	CNG Producing Company	Merger	WV SOS
	CNG Producing Company	Dominion Exploration & Production Inc	Merger	WV SOS
	Dominion Exploration & Production Inc	CONSOL Gas Company	Name Change	0006/0634
	CONSOL Gas Company	CNX Gas Company LLC	Merger	0006/0634
	CNX Gas Company LLC	Antero Resources Corporation	Assignment	0308/0581

*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.

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: Tim Rady
 Its: VP of Land

5/26/22 SP 06/10/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

**Expedited Modification Horizontal H6A Well Work Permits API: (47-085-10421 & 47-085-10423)
CORRECTED**

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Jun 8, 2022 at 2:28 PM

To: Mallory Stanton <mstanton@anteroresources.com>, Diane Blair <dblair@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>, Arlene Mossor <amossor@wvassessor.com>

CORRECTED SUBJECT LINE

On Wed, Jun 8, 2022 at 2:27 PM Stansberry, Wade A <wade.a.stansberry@wv.gov> wrote:

I have attached a copy of the newly issued well [permit](#) numbers:**47-085-10421 - SHAYS 1H****47-085-10423 - SMELT 1H**

These will serve as your copy.

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov****06/10/2022**