



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, October 4, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for PETER UNIT 1H
47-017-06933-00-00

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: PETER UNIT 1H
Farm Name: PHILLIP N HILL ET AL
U.S. WELL NUMBER: 47-017-06933-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/04/2022

Promoting a healthy environment.

CK# 4012943
5000

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

1) Well Operator: Antero Resources Corporat 494507062 017-Doddrid Grant Smithburg 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Peter Unit 1H MOD Well Pad Name: Lemley Pad

3) Farm Name/Surface Owner: Phillip N. Hill, et al Public Road Access: Hollow Run Rd

4) Elevation, current ground: 1304' AS BUILT Elevation, proposed post-construction:

5) Well Type (a) Gas X Oil Underground Storage

Other

(b) If Gas Shallow X Deep

Horizontal X

SOW
10/4/2022

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16400' MD

11) Proposed Horizontal Leg Length: 7762.5'

12) Approximate Fresh Water Strata Depths: 291', 345, 366' 790'

13) Method to Determine Fresh Water Depths: 47-017-04998, 47-017-04719. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1460', 1673', 1700', 1710'

15) Approximate Coal Seam Depths: 980'

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:

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Environmental Protection

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	X60	78.67#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	840'	840'	CTS, 583 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	3200'	3200'	CTS, 1303 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	16400'	16400'	3205 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

SDW
10/4/2022

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	24"	0.438"	1530	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"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ~1.44 & 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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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new horizontal shallow well and complete 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): 27.26 acres

22) Area to be disturbed for well pad only, less access road (acres): 4.31 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.

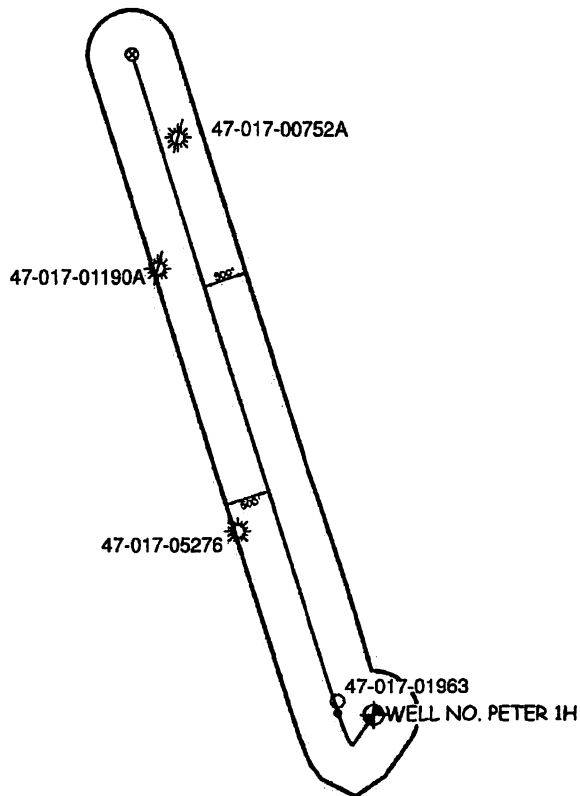
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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.

LEMLEY PAD ANTERO RESOURCES CORPORATION



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

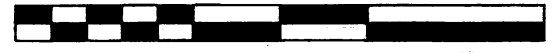
JOB #: 22-005WA

SCALE : 1-INCH = 2000-FEET
0' 2000' 4000' 6000'

DATE: 09/19/22

DRAWN BY: D.L.P.

FILE: PETER1HAOR.DWG



UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producing Formation(s) not perf'd
47017311900000	A C BALLOUZ	1			2,350		Big Injun	Warren, Speechly, Balltown, Riley, Benson
47017052760000	HAMER J C CO	8592	DIVERSIFIED PROD LLC	DOMINION EXPL&PROD	2,840	1962 - 2642	Keener, Squaw, Gordon	Warren, Speechly, Balltown, Riley, Benson
47017019630000	W BOYCE	5124	DOMINION TRANSMISSION	HOPE NATURAL GAS	2,294		Big Injun, Squaw	Alexander, Berea
47095307520000	CHARLES I MCMILLAN	4078	HOPE NATURAL GAS	HOPE NATURAL GAS	2,044		Big Injun, Squaw	Alexander, Berea

LATITUDE 39°20'00"

3,883'

6,707' TO BOTTOM HOLE
LATITUDE 39°22'30"

LONGITUDE 80°40'00"
LONGITUDE 80°40'00"
LONGITUDE 80°40'00"

2,585'

Antero Resources Corporation
Well No. Peter Unit 1H

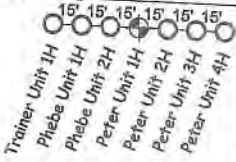
LEGEND

	Surface Owner Boundary Lines +/-
	Interior Surface Tracts +/-
	Existing Fence
	Found monument, as noted

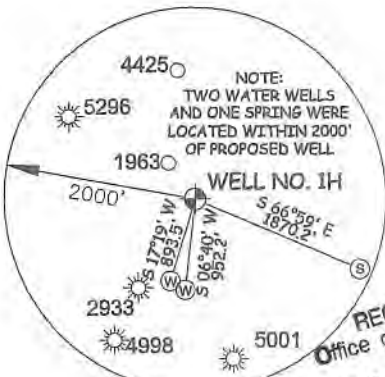
NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 303,126ft E: 1,666,087ft
 LAT: 39°19'34.45" LON: 80°40'49.41"
 BOTTOM HOLE INFORMATION:
 N: 310,553ft E: 1,663,359ft
 LAT: 39°20'47.50" LON: 80°41'25.37"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,353,039m E: 527,563m
 BOTTOM HOLE INFORMATION:
 N: 4,355,069m E: 526,680m

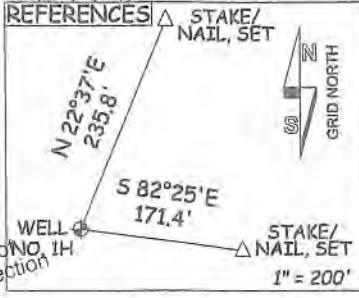
PAD LAYOUT
NOT TO SCALE



(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,280,879ft E: 1,730,799ft
 POINT OF ENTRY INFORMATION:
 N: 14,280,895ft E: 1,730,401ft
 BOTTOM HOLE INFORMATION:
 N: 14,288,257ft E: 1,727,949ft



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SEP 21 2022
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JOB # 13-012WA
 DRAWING # PETER1HR3
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1,304' AS BUILT WATERSHED MCELROY CREEK
 QUADRANGLE SMITHBURG 7.5' DISTRICT GRANT COUNTY DODDRIDGE

SURFACE OWNER BRIAN D. LEMLEY & CHRISTY M. LEMASTER ET AL ACREAGE 59.08 ACRES +/-
 OIL & GAS ROYALTY OWNER MARIETTE LEMLEY ET AL; CNX GAS COMPANY, LLC; LEASE ACREAGE 66.87 ACRES +/-; 19.56 ACRES +/-
 CREED JONES ET AL; PHILLIP McMILLAN ET UX; ETHLYN McMILLAN; E. B. ROBINSON ET UX 72 ACRES +/-; 75 ACRES +/-; 1.5 ACRES +/-; 214 ACRES +/-

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER REDRILL ___ FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,700' TVD 16,400' MD

DIANNA STAMPER
 CT CORPORATION SYSTEM
 5400 D BIG TYLER ROAD
 CHARLESTON, WV 25313

COUNTY NAME PERMIT

LATITUDE 39°20'00"

3,883'

6,707' TO BOTTOM HOLE
LATITUDE 39°22'30"

Antero Resources Corporation
Well No. Peter Unit 1H

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Existing Fence
- Found monument, as noted

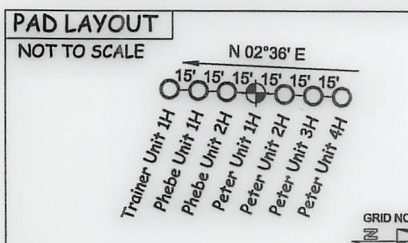
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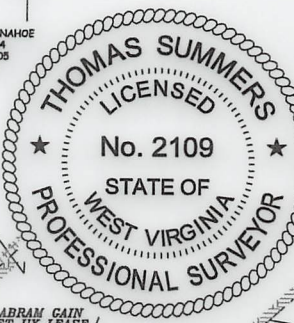
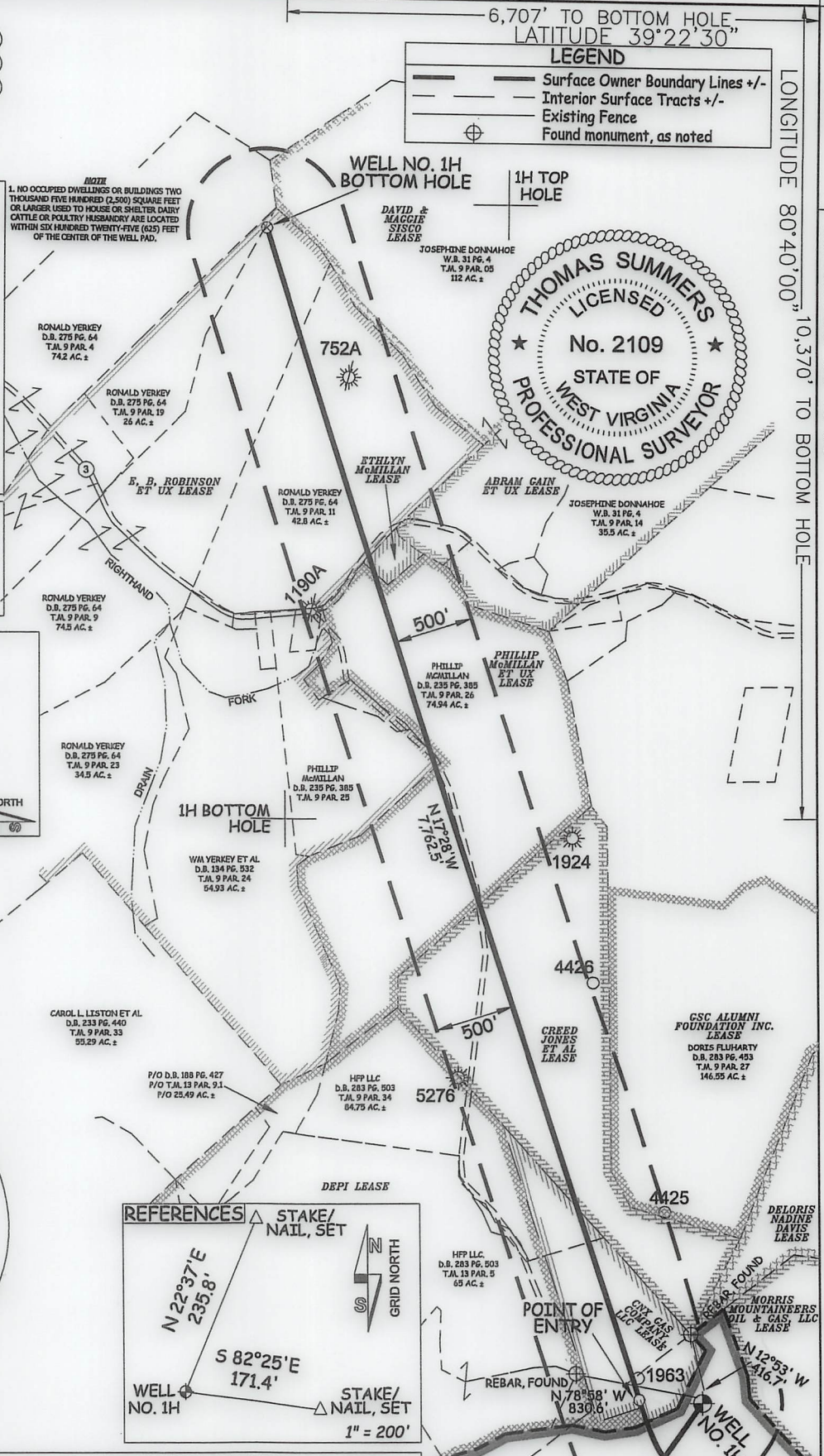
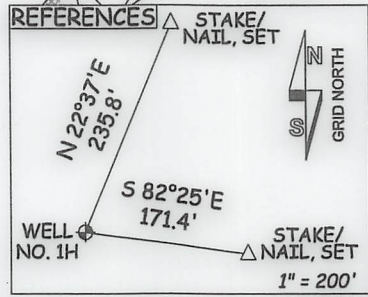
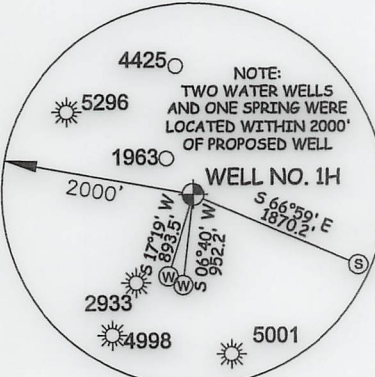
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JOB # 13-012WA
DRAWING # PETER1HR3
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MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

THOMAS SUMMERS P.S. 2109
Thomas Summers

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

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

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TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,700' TVD 16,400' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

DATE 9/07/22 OPERATOR'S WELL # PETER UNIT #1H
API WELL # 47 - 017 - 06933 MOD
STATE COUNTY PERMIT

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>Mariette Lemley, et al Lease</u>			
Mariette Lemley, et al	S&K Land Company	1/8	0114/0075
S&K Land Company	Mert Development, Inc.	Assignment	0115/0110
Mert Development, Inc.	Continental Reserves 1980-E	Assignment	0123/0022
Continental Reserves 1980-E	Appalachian Energy Development Corporation	Assignment	0150/0251
Appalachian Energy Development Corporation	Appalachian Energy Reserves, Inc.	Affidavit of Identity	0019/0210
Appalachian Energy Reserves, Inc.	Jay Shearer	Assignment	0179/0146
Jay Shearer	Clowser Production Company	Assignment	0285/0420
Clowser Production Company	Antero Resources Appalachian Corporation	Assignment	0285/0417
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
<u>DEPI Lease</u>			
Dominion Exploration & Production Inc.	Dominion Appalachian Development, LLC	1/8	0230/0569
Dominion Appalachian Development, LLC	Antero Resources Appalachian Corporation	Assignment	0231/0145
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
<u>CNX Gas Company LLC Lease</u>			
CNX Gas Company LLC	Antero Resources Corporation	Assignment	506/507
<u>Creed Jones et al Lease</u>			
Creed Jones, et al	Charles A. F. Randolph	1/8	0028/0409
Charles A. F. Randolph	Hope Natural Gas Company	Assignment	0034/0237
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger	0051/0795
CNG Transmission Corporation	Dominion Transmission, Inc.	Merger	0058/0362
Dominion Transmission, Inc.	Antero Resources Appalachian Corporation	Assignment	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0046/0523
<u>Phillip McMillan et ux Lease</u>			
Phillip McMillan et ux	Emax Oil Company	1/8+	362/85
Emax Oil Company	Antero Resources Corporation	Assignment	358/154
<u>E.B. Robinson et ux Lease</u>			
E.B. Robinson et ux	Cabot Oil and Gas Corporation	1/8	174/525
Cabot Oil and Gas Corporation	Enervest Appalachia LP	Assignment	186/6
Enervest Appalachia LP	CGAS Properties LP	Assignment	220/357
CGAS Properties LP	Winter Moon Energy Company LLC & Chesapeake Appalachia LLC	Assignment	258/188
Winter Moon Energy Company LLC & Chesapeake Appalachia LLC	Antero Resources Corporation	Assignment	373/703
<u>Ethlyn McMillian Lease</u>			
Ethlyn McMillian	Emax Oil Company	1/8+	370/582
Emax Oil Company	Antero Resources Corporation	Assignment	358/154

RECEIVED
Office of Oil & Gas
SEP 21 2022

WV Department of
Environmental Protection

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
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IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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- (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
<u>E.B. Robinson et ux Lease</u>				
	E.B. Robinson et ux	Cabot Oil and Gas Corporation	1/8	174/525
	Cabot Oil and Gas Corporation	Enervest Appalachia LP	Assignment	186/6
	Enervest Appalachia LP	CGAS Properties LP	Assignment	220/357
	CGAS Properties LP	Winter Moon Energy Company LLC & Chesapeake Appalachia LLC	Assignment	258/188
	Winter Moon Energy Company LLC & Chesapeake Appalachia LLC	Antero Resources Corporation	Assignment	373/703

*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.

**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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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: Senior Vice President - Land



September 19, 2022

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, WV 25304

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

Antero Resources Corporation (Antero) would like to submit the following permit modification for 5 approved wells on the Lemley Pad. We are requesting to extend the lateral length. Peter Unit 1H-4H (47-017-06933, 47-017-06934, 47-017-06935, 47-017-06936) and Trainer Unit 1H (47-017-06939).

All ARE Expedited

Attached you will find the following documents:

- REVISED Form WW-6B
- REVISED Form WW-6A1, which shows the new leases we will be drilling into
- REVISED Mylar Plats

If you have any questions please feel free to contact me at (303) 357-7182.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink that reads "Mallory Stanton".

Mallory Stanton
Permitting Supervisor
Antero Resources Corporation

Enclosures

RECEIVED
Office of Oil & Gas
SEP 21 2022
WV Department of
Environmental Protection



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

Modification Horizontal H6A Well Work Permit (47-017-06933, 47-017-06934, 47-017-06935, 47-017-06936, 47-017-06939)

1 message

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

Wed, Oct 5, 2022 at 7:34 AM

To: Mallory Stanton <mstanton@anteroresources.com>, Diane Blair <dblair@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, David Sponaugle <dsponaug@assessor.state.wv.us>, "Ward, Samuel D" <samuel.d.ward@wv.gov>, "Blevins, Cragin" <cragin.blevins@wv.gov>

I have attached a copy of the newly issued well [permit](#) number(s). This will serve as your copy.

47-017-06933 - PETER UNIT 1H
47-017-06934 - PETER UNIT 2H
47-017-06935 - PETER UNIT 3H
47-017-06936 - PETER UNIT 4H
47-017-06939 - TRAINER UNIT 1H

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

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

5 attachments

-  **47-017-06934 - mod.pdf**
1923K
-  **47-017-06935 - mod.pdf**
1936K
-  **47-017-06936 - mod.pdf**
1949K
-  **47-017-06939 - mod.pdf**
2272K
-  **47-017-06933 - mod.pdf**
1986K