



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, August 2, 2021
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for PEELER UNIT 3H
47-103-03411-00-00

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 handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a printed name and title.

James A. Martin
Chief

Operator's Well Number: PEELER UNIT 3H
Farm Name: WILLIAM L. & DELORES J. GADD
U.S. WELL NUMBER: 47-103-03411-00-00
Horizontal 6A New Drill
Date Modification Issued: August 2, 2021

Promoting a healthy environment.

08/06/2021

CK # 231410
\$ 5000
7/8/21

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

1) Well Operator: Antero Resources Corporation 494507062 103-Wetzel Green Porters Falls 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Peeler Unit 3H MOD Well Pad Name: Gadd Pad

3) Farm Name/Surface Owner: William L. & Delores J. Gadd Public Road Access: Eightmile Road

4) Elevation, current ground: 1223.8' Elevation, proposed post-construction: ~1223.8

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: 7500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7500' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20900'

11) Proposed Horizontal Leg Length: 11188'

12) Approximate Fresh Water Strata Depths: 350'

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13) Method to Determine Fresh Water Depths: 47-095-02266

14) Approximate Saltwater Depths: 1887', 1917'

WV Department of
Environmental Protection

15) Approximate Coal Seam Depths: 656', 971'

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: _____

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	94#	80	80	CTS, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	400 *see #19	400 *see #19	CTS, 556 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	20900	20900	5339 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Bryan Harris
7-28-21

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"	0.438"	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							

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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): 34.16 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.00 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 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 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

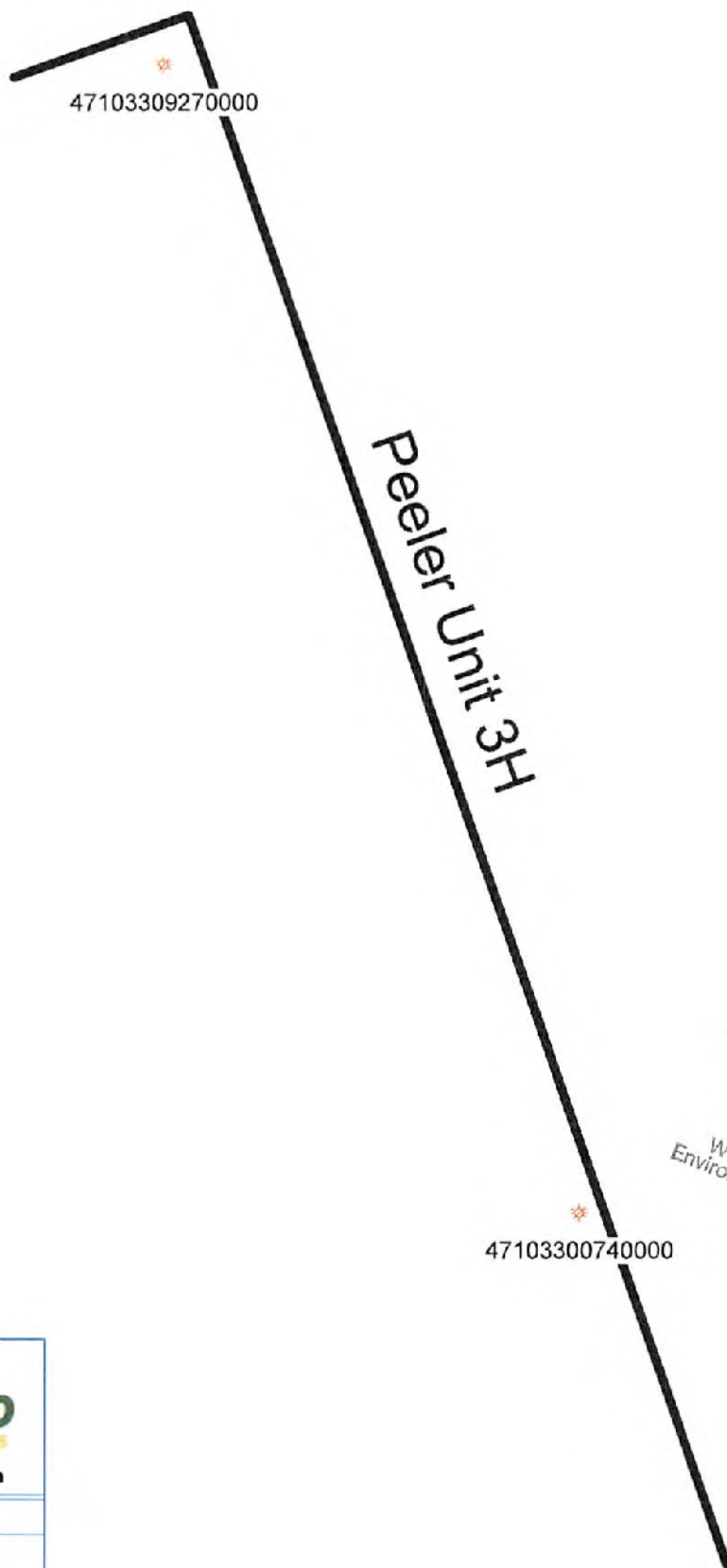
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

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:

[Empty box for proposed borehole conditioning procedures]

*Note: Attach additional sheets as needed.



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Antero Resources Corporation

Peeler Unit 3H - AOR



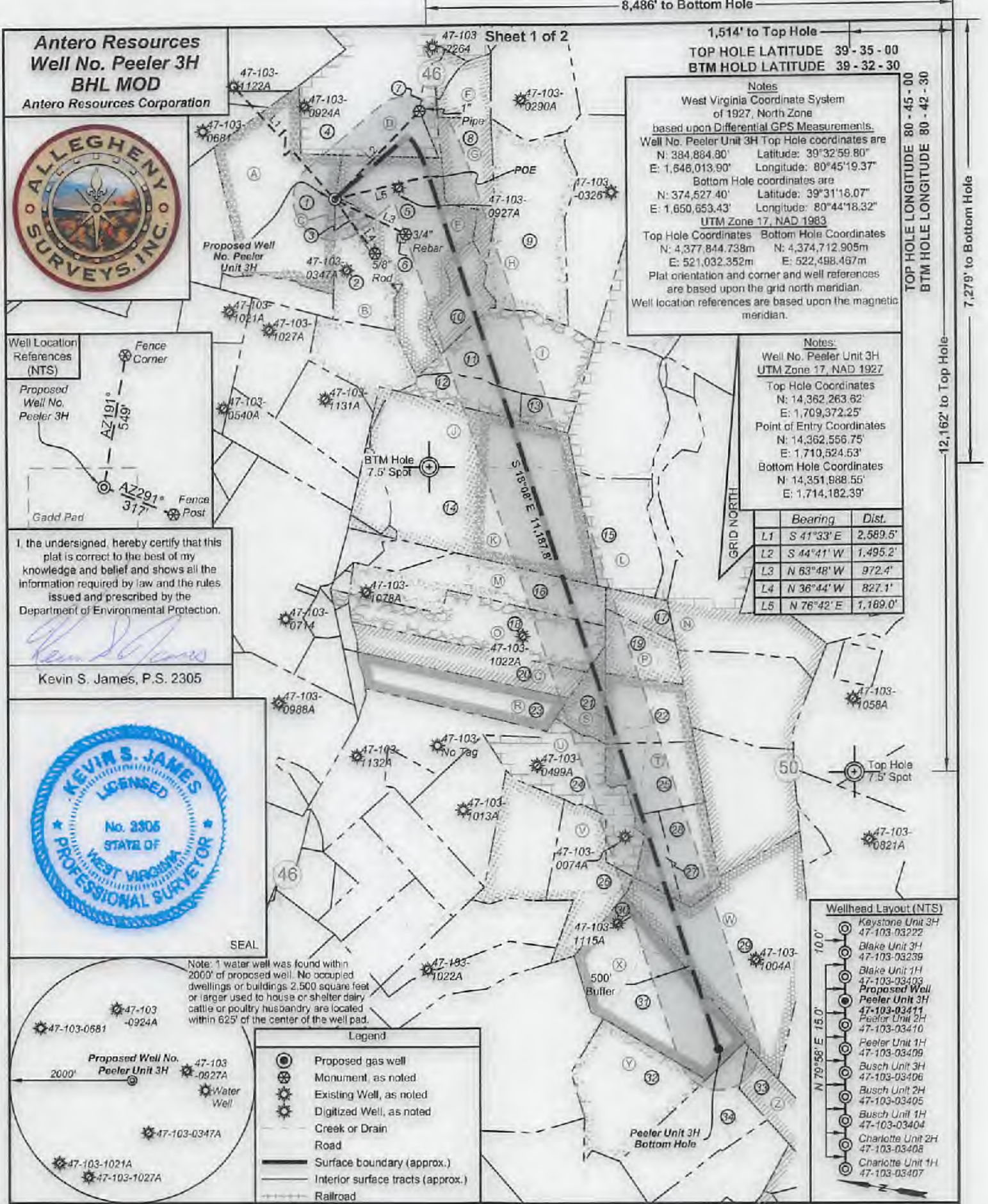
WELL SYMBOLS
Plugged Gas Well

July 15, 2021

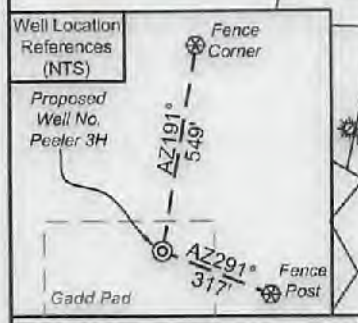
08/06/2021

UWI (API Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perforated
47103303470000	PITTMAN HRS	1152	HOPE NATURAL GAS	HOPE NATURAL GAS	2,961	Unknown	Gordon	Weir, Berea, Benson, Alexander
47103310130000	WM CONLEY 1	1336	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	3,077	Unknown	Gordon	Weir, Berea, Benson, Alexander

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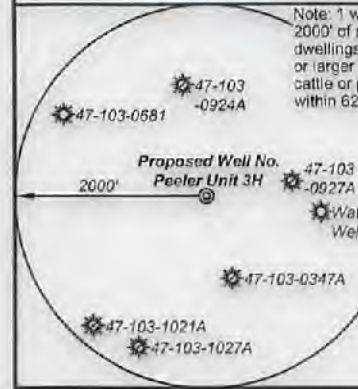
Antero Resources
Well No. Peeler 3H
BHL MOD
 Antero Resources Corporation



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.

Kevin S. James

Kevin S. James, P.S. 2305



Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- Railroad

Notes
 West Virginia Coordinate System of 1927, North Zone
 based upon Differential GPS Measurements.
 Well No. Peeler Unit 3H Top Hole coordinates are
 N: 384,884.80' Latitude: 39°32'59.80"
 E: 1,648,013.90' Longitude: 80°45'19.37"
 Bottom Hole coordinates are
 N: 374,527.40' Latitude: 39°31'18.07"
 E: 1,650,653.43' Longitude: 80°44'18.32"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates: Bottom Hole Coordinates
 N: 4,377,844.738m N: 4,374,712.905m
 E: 521,032.352m E: 522,488.467m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

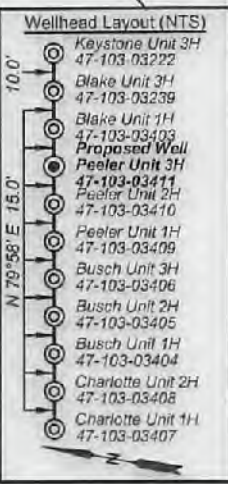
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 Well No. Peeler Unit 3H
 UTM Zone 17, NAD 1927

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 N: 14,362,263.62'
 E: 1,709,372.25'

Point of Entry Coordinates
 N: 14,362,556.75'
 E: 1,710,524.53'

Bottom Hole Coordinates
 N: 14,351,988.55'
 E: 1,714,182.39'

	Bearing	Dist.
L1	S 41°33' E	2,589.5'
L2	S 44°41' W	1,495.2'
L3	N 63°48' W	972.4'
L4	N 36°44' W	827.1'
L5	N 76°42' E	1,189.0'



FILE NO: 326-34-G-17
 DRAWING NO: Peeler 3H Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: July 15 20 21
 OPERATOR'S WELL NO. Peeler Unit 3H
 API WELL NO MOD
 47 - 103 - 03411
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,223.8' WATERSHED: Fishing Creek QUADRANGLE: Top Hole: Porter Falls; Bottom Hole: Pine Grove

DISTRICT: Green William L. & Acropolis Inc.; Deborah A. Beaver; Edwin D. Michael, et ux COUNTY: Wayne
 SURFACE OWNER: Delores J. Gadd Relta Jane Hall; Clyde Robert Kennedy; David E. Bowyer; Shiben Estates, Inc.; BRC Appalachian Minerals I, LLC (S); ACREAGE: 14 2.65; 50.97; 36.5; 51.25; 52.9; 30.5; 40; 66; 75.5; 50; 8;
 ROYALTY OWNER: Ellen W. & Mark L. VanDyne; Gordon Cummings; Nancy Tice; John W. Bertram; LEASE NO: ACREAGE:
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,500' TVD
 20,900' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



ID	TMP/Par	Owner	Bk/Pg	Acres
1	16-22	William L. & Delores J. Gadd	348/169	60.50
2	16-30	William L. & Delores J. Gadd	348/169	14.00
3	16-31	William L. & Delores J. Gadd	348/169	2.65
4	16-10	Loren & Shirley Haught	444/434	100.48
5	16-23	Kenneth E. Butler	331/110	50.97
6	16-23.1	Wetzel County Public Service District 1	433/851	0.23
7	16-10.1	Harry Eastham	474/876	3.05
8	16-24	Antero Resources Corporation	474/713	20.60
9	16-25	Antero Resources Corporation	474/713	39.00
10	16-33	William M. Greenawalt & Lee A. Niezgoda	387/1	11.80
11	16-41	James C. Henthorne	367/673	46.00
12	16-47	William M. Greenawalt & Lee A. Niezgoda	387/1	12.00
13	16-48	George D. Cain	372/388	5.30
14	16-58	Mark & Michael Difiore	406/241	97.80
15	16-65	George D. Cain	372/388	30.80
16	16-71	Michael L. & Tina M. Adams	437/722	30.50
17	20-1	Paul E. & Janet K. Tracy	428/254	3.15
18	19-8.1	Edwin D. & Jane C. Michael	275/42	36.84
19	19-9	Paul E. & Janet K. Tracy	385/56	13.20
20	19-8.2	Edwin D. & Jane C. Michael	275/42	22.00
21	19-18.1	Edwin D. & Jane Michael	364/585	8.00
22	19-19	Paul E. & Janet K. Tracy	428/254	21.20
23	19-8.3	Edwin D. & Jane C. Michael	275/42	24.50
24	19-18	Ronald L. & Sharon Christenson Family Trust	439/377	30.00
25	19-20	Paul E. & Janet K. Tracy	428/254	11.4
26	19-28	Ronald L. & Sharon Christenson Family Trust	439/377	28.25
27	19-29	Gary B. Shanholtzer	408/530	11.80
28	20-11	Kathy L. Wright	WB75/551	10.75
29	20-16	Coastal Forest Resources Co.	444/105	75.50
30	19-48.1	Teresa & Michael L. Bassett	423/982	2.00
31	19-48	Teresa & Michael L. Bassett	423/982	51.00
32	19-49	Michael L. & Teresa Bassett	366/315	32.25
33	20-30	Sandra D. Derby	384/585	21.50
34	20-23	Michael L. & Teresa Bassett	386/315	33.30

Leases	
A	Shiben Estates, Inc.
B	Ellen W. & Mark L. VanDyne
C	John W. Bertram
D	Gordon Cummings
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F	James K. Eastham
G	Nancy Tice
H	BRC Appalachian Minerals I, LLC
I	Reita Jane Hall
J	Acropolis, Inc.
K	Clyde Robert Kennedy
L	William R. Stainaker
M	BRC Appalachian Minerals I, LLC
N	BRC Appalachian Minerals I, LLC
O	David E. Bowyer
P	Sandra K. Sife
Q	Stone Hill Minerals Holdings, LLC
R	Edwin D. & Jane C. Michael
S	Edwin D. Michael, et ux
T	Acropolis Inc.
U	Thomas J. Iacoboni Revocable Trust Agreement
V	Faye Ann Skinner, et al
W	BRC Appalachian Minerals I, LLC
X	Deborah A. Beaver
Y	BRC Appalachian Minerals I, LLC
Z	Sandra D. Derby

FILE NO: 326-34-G-17
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OIL AND GAS DIVISION

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 47 - 103 - 03411
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 BTM Hole: Pine Grove
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8,486' to Bottom Hole

1,514' to Top Hole

TOP HOLE LATITUDE 39 - 35 - 00
BTM HOLE LATITUDE 39 - 32 - 30

TOP HOLE LONGITUDE 80 - 45 - 00
BTM HOLE LONGITUDE 80 - 42 - 30

12,162' to Top Hole

7,279' to Bottom Hole

Antero Resources
Well No. Peeler 3H
BHL MOD
Antero Resources Corporation



Well Location References (NTS)



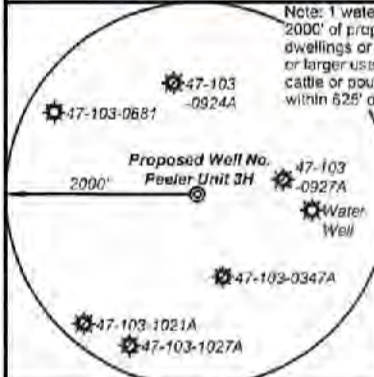
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection

Kevin S. James, P.S. 2305



SEAL

Note: 1 water well was found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Legend

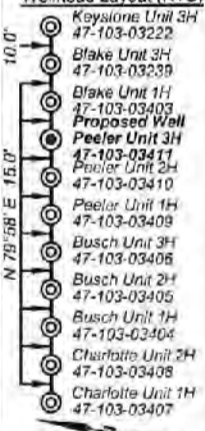
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Wellhead Layout (NTS)



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Q	Stone Hill Minerals Holdings, LLC
R	Edwin D. & Jane C. Michael
S	Edwin D. Michael, et ux
T	Acropolis Inc.
U	Thomas J. Iacoboni Revocable Trust Agreement
V	Faye Ann Skinner, et al
W	BRC Appalachian Minerals I, LLC
X	Deborah A. Beaver
Y	BRC Appalachian Minerals I, LLC
Z	Sandra D. Derby

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FILE NO: 326-34-G-17
 DRAWING NO: Peeler 3H Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 CORS, Monroe County, OH

DATE: July 15 2021
 OPERATOR'S WELL NO. Peeler Unit 3H
 API WELL NO MOD
 47 - 103 - 03411
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built 1,223.8' WATERSHED: Fishing Creek QUADRANGLE: Top Hole: Porter Falls; Bottom Hole: Pine Grove
 DISTRICT: Green William L. & Acropolis Inc.; Deborah A. Beaver; Edwin D. Michael, et ux COUNTY: West Virginia
 SURFACE OWNER: Delores J. Gadd Reita Jane Hall; Clyde Robert Kennedy; David E. Bowyer; ACREAGE: 14 2.65; 50.97; 36.5;
 ROYALTY OWNER: Ellen W. & Mark L. VanDyne; Gordon Cummings; Nancy Tice; John W. Bertram; LEASE NO: ACREAGE: 66; 75.5; 50; 8;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 7,500' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,900' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

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
A	<u>Shiben Estates Inc. Lease</u> Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
B	<u>Ellen W. & Mark L. Vandyne Lease</u> Ellen W. & Mark L. VanDyne	Antero Resources Corporation	1/8+	184A/660
C	<u>John W. Bertram Lease</u> John W. Bertram	Antero Resources Corporation	1/8+	191A/288
E	<u>BRC Appalachian Minerals LLC Lease</u> BRC Appalachian Minerals LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merger	0157/0540 0177/0533 0013/0311
D	<u>Gordon Cummings Lease</u> Gordon Cummings	Antero Resources Corporation	1/8+	0193/0001
G	<u>Nancy Tice Lease</u> Nancy Tice	Antero Resources Corporation	1/8+	0203/0891
J	<u>Reita Jane Hall Lease</u> Reita Jane Hall	Antero Resources Corporation	1/8+	0111/0123
K	<u>Clyde Robert Kennedy Lease</u> Clyde Robert Kennedy Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties LLC	Chesapeake Appalachia LLC SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Assignment Merger	119A/412 157A/540 177A/533 13/311
M	<u>BRC Appalachian Minerals LLC Lease</u> BRC Appalachian Minerals LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merger	0157/0540 0177/0533 0013/0311
O	<u>David E. Bowyer Lease</u> David E. Bowyer	Antero Resources Corporation	1/8+	177A/105

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Edwin D. Michael Lease</u> S Edwin D. Michael	Antero Resources Corporation	1/8+	207A/910
<u>Acropolis Inc Lease</u> T Acropolis Inc	Antero Resources Corporation	1/8+	179A/367
<u>Thomas J. Lacoboni Revocable Trust Agreement Lease</u> J Thomas J. Lacoboni Revocable Trust Agreement	Antero Resources Corporation	1/8+	262A/947
<u>BRC Appalachian Minerals LLC Lease</u> W BRC Appalachian Minerals LLC SWN Production Company Antero Exchange Properties LLC	SWN Production Company Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Merger	0157/0540 0177/0533 0013/0311

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
X <u>Deborah A. Beaver Lease</u>	Deborah A. Beaver	Antero Resources Corporation	1/8+	173A/106

*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: VP of Land



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

Expedited Modification H6A Horizontal Well Work Permit (API: 47-103-03411)

1 message

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

Tue, Aug 3, 2021 at 8:02 AM

To: Mallory Stanton <mstanton@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>

Cc: "Harris, Bryan O" <bryan.o.harris@wv.gov>, Scott Lemley <slemley@wvassessor.com>

I have attached a copy of the newly issued well [permit](#) number "PEELER UNIT 3H", API (47-103-03411). This will serve as your copy.

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

 **47-103-03411 - mod.pdf**
1112K

08/06/2021