



---

west virginia department of environmental protection

---

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

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

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 1H  
47-103-03409-00-00

**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.



James A. Martin  
Chief

Operator's Well Number: PEELER UNIT 1H  
Farm Name: WILLIAM L. & DELORES J. GADD  
U.S. WELL NUMBER: 47-103-03409-00-00  
Horizontal 6A New Drill  
Date Modification Issued: August 2, 2021

Promoting a healthy environment.

08/06/2021

CK# 231409  
\$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 Corpora 494507062 103-Wetzel Green Porters Falls 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Peeler Unit 1H 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  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: 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: 20100'

11) Proposed Horizontal Leg Length: 11283'

12) Approximate Fresh Water Strata Depths: 350'

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

14) Approximate Saltwater Depths: 1887', 1917'

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

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

RECEIVED  
Office of Oil and Gas

JUL 29 2021

WV Department of  
Environmental Protection

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#	20100	20100	5119 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							

RECEIVED  
Office of Oil and Gas

JUL 29 2021

WV Department of  
Environmental Protection

**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

JUL 21 2021  
WV Department of  
Environmental Protection

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 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:

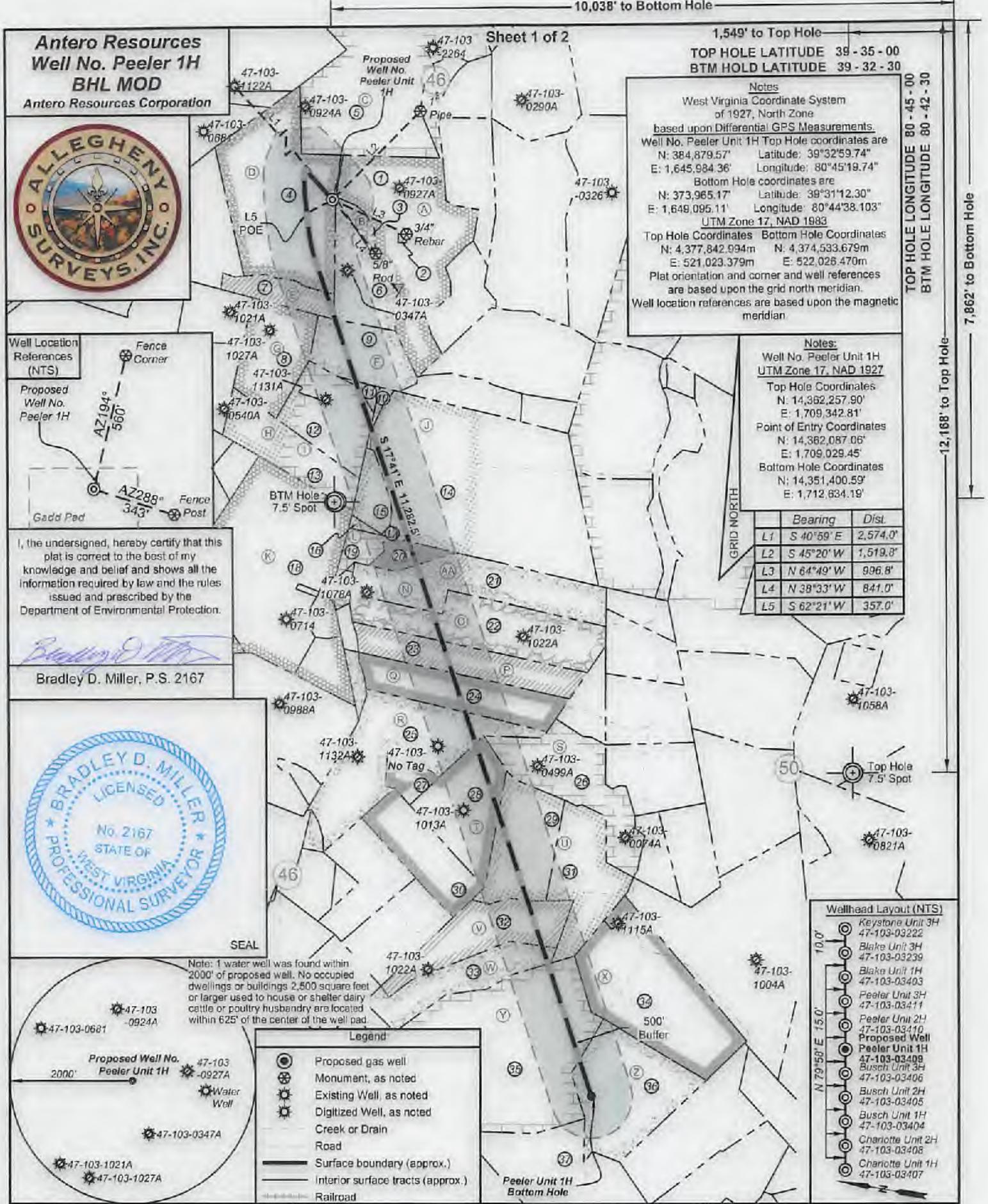
[Empty box for proposed borehole conditioning procedures]

\*Note: Attach additional sheets as needed.

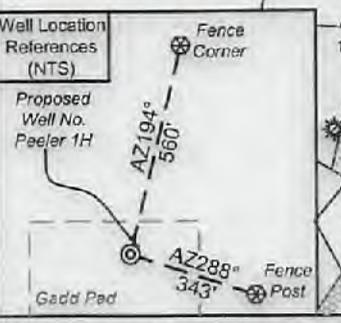


UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103309270000	FOX HRS	897	HOPE NATURAL GAS	HOPE NATURAL GAS	2,246	Unknown	Big Injun	Weir, Berea, Benson, Alexander
47103300740000	J N STRAIGHT	1341	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	2,772	Unknown	Gordon	Weir, Berea, Benson, Alexander

RECEIVED  
 Office of Oil and Gas  
 JUL 21 2021  
 WV Department of  
 Environmental Protection



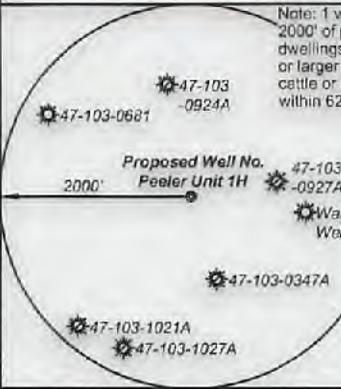
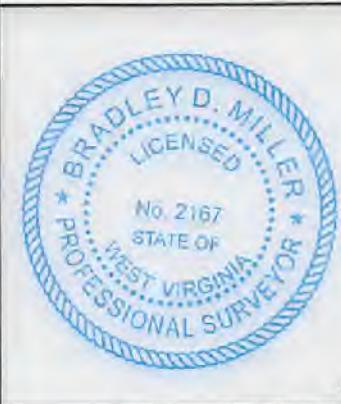
**Antero Resources**  
**Well No. Peeler 1H**  
**BHL MOD**  
 Antero Resources Corporation



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.

*Bradley D. Miller*

Bradley D. Miller, P.S. 2167



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

1,549' to Top Hole

TOP HOLE LATITUDE 39 - 35 - 00

BTM HOLD LATITUDE 39 - 32 - 30

Notes

West Virginia Coordinate System of 1927, North Zone

based upon Differential GPS Measurements.

Well No. Peeler Unit 1H Top Hole coordinates are

N: 384,879.57" Latitude: 39°32'59.74"

E: 1,645,984.36" Longitude: 80°45'19.74"

Bottom Hole coordinates are

N: 373,965.17" Latitude: 39°31'12.30"

E: 1,648,095.11" Longitude: 80°44'38.103"

UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates

N: 4,377,842.994m N: 4,374,533.679m

E: 521,023.379m E: 522,026.470m

Plat orientation and corner and well references are based upon the grid north meridian.

Well location references are based upon the magnetic meridian

TOP HOLE LONGITUDE 80 - 45 - 00

BTM HOLE LONGITUDE 80 - 42 - 30

Notes:

Well No. Peeler Unit 1H

UTM Zone 17, NAD 1927

Top Hole Coordinates

N: 14,362,257.90'

E: 1,709,342.81'

Point of Entry Coordinates

N: 14,362,087.06'

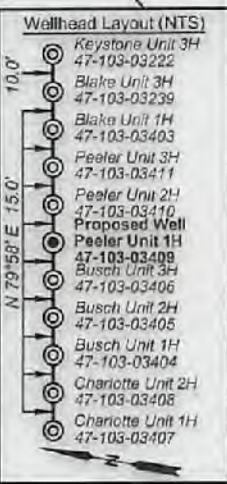
E: 1,709,029.45'

Bottom Hole Coordinates

N: 14,351,400.59'

E: 1,712,634.19'

	Bearing	Dist.
L1	S 40°59' E	2,574.0'
L2	S 45°20' W	1,519.8'
L3	N 64°49' W	996.8'
L4	N 38°33' W	841.0'
L5	S 62°21' W	357.0'



FILE NO: 326-34-G-17

DRAWING NO: Peeler 1H 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 19 20 21

OPERATOR'S WELL NO. Peeler Unit 1H

API WELL NO MOD

47 - 103 - 03409

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; BTM Hole: Pine Grove

DISTRICT: Green William L. & COUNTY: Wayne

SURFACE OWNER: Delores J. Gadd ACREAGE: 60.5

ROYALTY OWNER: Ellen W. & Mark L. Vandyne; John W. Bertram; Sandra Rose Conley; Acropolis, Inc. LEASE NO: ACREAGE: 3.18; 80; 32.25; 45.72

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; 20,100' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - GT Corporation System

ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road

Denver, CO 80202 Charleston, WV 25313



ID	TM/Par	Owner	Blk/Pg	Acres
1	16-23	Kenneth E. Butler	331/110	50.97
2	16-23.1	Wetzel County Public Service District 1	433/851	0.23
3	16-31	William L. & Dolores J. Gadd	348/169	2.65
4	16-22	William L. & Dolores J. Gadd	348/169	60.50
5	16-10	Loren & Shirley Haught	444/434	100.48
6	16-30	William L. & Dolores J. Gadd	348/169	14.00
7	16-47	William M. Greenwalt & Lee A. Niezgoda	387/1	12.00
8	16-39	Silas & William A. Tennant	WB27/97	23.3
9	16-40	William M. Greenwalt & Lee A. Niezgoda	387/1	18.00
10	16-57	Lee A. Niezgoda	402/90	1.06
11	16-40.1	William M. Greenwalt & Lee A. Niezgoda	387/1	2.00
12	16-46	Joyce Ann Haught, et al	WB37/335	23.50
13	16-56	James L. & Martha Jo Stewart	288/330	23.33
14	16-58	Mark & Michael Difiore	406/241	97.80
15	16-58.1	Harry K. & Shirley M. Eastham	439/3	7.21
16	16-62	Harry K. & Shirley M. Eastham	325/101	0.88
17	16-70	Jackie Lee & Joyce Anne Haught	246/86	0.50
18	16-61	Michael L. & Tina M. Adams	444/427	67.96
19	16-68	Harry K. & Shirley M. Eastham	325/101	4.70
20	16-64	Mark & Michael Difiore	406/241	6.60
21	16-71	Michael L. & Tina M. Adams	437/722	30.50
22	19-8.1	Edwin D. & Jane C. Michael	275/42	36.84
23	19-8.2	Edwin D. & Jane C. Michael	275/42	22.00
24	19-8.3	Edwin D. & Jane C. Michael	275/42	24.50
25	19-17	John R. & Mary Ann Horner	416/653	47.55
26	19-18	Ronald L. & Sharon Christenson Family Trust	439/377	30.00
27	19-25	Perry Dale, Jr. & Martha Jo Thorne	348/298	5.34
28	19-26	Perry Dale, Jr. & Martha Jo Thorne	348/298	25.00
29	19-27	Ronald L. & Sharon Christenson Family Trust	439/377	25.00
30	19-36	Perry Dale, Jr. & Martha Jo Thorne	348/298	20.00
31	19-28	Ronald L. & Sharon Christenson Family Trust	439/377	26.25
32	19-42	Sharon M. & Ronald L. Christenson	363/101	22.50
33	19-46	Sharon M. & Ronald L. Christenson	439/373	25.26
34	19-48	Teresa & Michael L. Bassett	423/982	51.00
35	19-47	Suzann M. Stoehr, et al	WB48/422	80.00
36	19-49	Michael L. & Teresa Bassett	386/315	32.25
37	19-50	Ronald H. Eastham, et al	424/70	40.00

Leases	
A	BRC Appalachian Minerals I, LLC
B	John W. Bertram
C	Gordon Cummings
D	Shiben Estates, Inc.
E	Sandra Rose Conley
F	Ellen W. & Mark L. VanDyne
G	Michael Tennant
H	Susie T. Grimm
I	Thomas M. Stackhouse
J	Acropolis, Inc
K	Chesapeake Appalachia, LLC
L	Richard L. Tennant
M	Emma Lee Rine
N	BRC Appalachian Minerals I, LLC
O	David E. Bowyer
P	Stone Hill Minerals Holdings, LLC
Q	Edwin D. & Jane C. Michael
R	H. Dorn Higginbotham
S	Thomas J. Jacoboni Revocable Trust Agreement
T	Perry Dale Thorne, Jr., et ux
U	Faye Ann Skinner, et al
V	Christenson Family Trust
W	Howard M. Henderson
X	Deborah A. Beaver
Y	Suzann Marie Stoehr, et al
Z	BRC Appalachian Minerals I, LLC
AA	Waco Oil & Gas Co., Inc.

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



DATE: July 19 20 21  
 OPERATOR'S WELL NO. Peeler Unit 1H  
 API WELL NO MOD  
 47 - 103 - 03409  
 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; BTM Hole: Pine Grove  
 DISTRICT: Green William L. & SURFACE OWNER: Delores J. Gadd COUNTY: Wayne  
 ROYALTY OWNER: Ellen W. & Mark L. Vandyne; John W. Bertram; Sandra Rose Conley; Acropolis, Inc. LEASE NO: ACREAGE: 60.5  
 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 20,100' MD

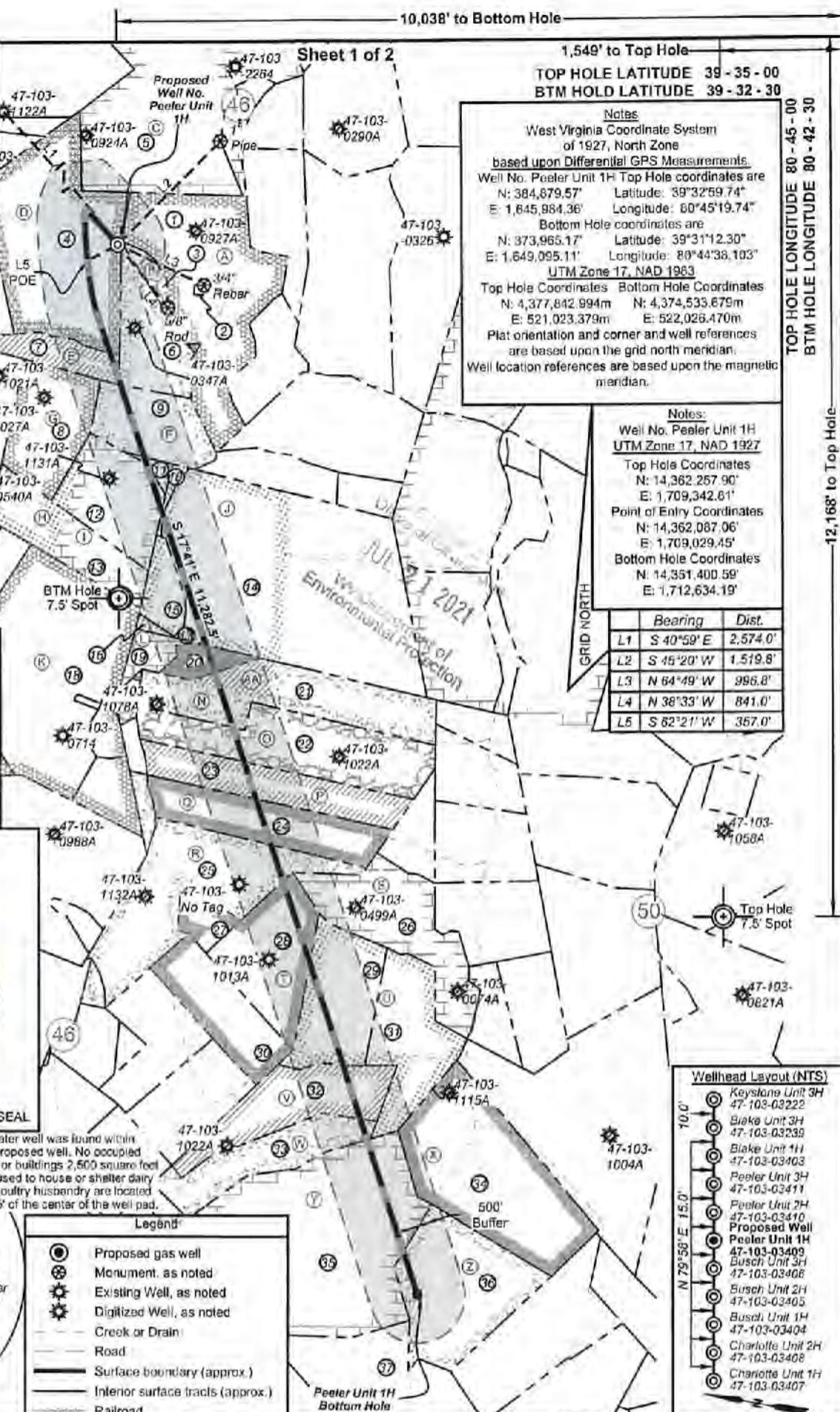
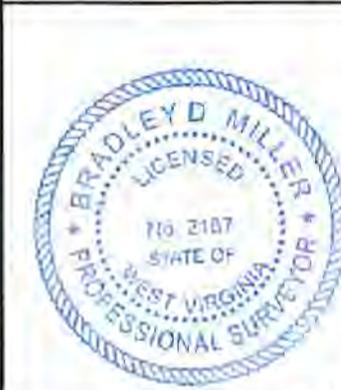
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
 Denver, CO 80202 Charleston, WV 25313

**Antero Resources  
Well No. Peeler 1H  
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.

*Bradley D. Miller*  
Bradley D. Miller, P.S. 2167



**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

1,549' to Top Hole  
TOP HOLE LATITUDE 39 - 35 - 00  
BTM HOLD LATITUDE 39 - 32 - 30

**Notes**  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Well No. Peeler Unit 1H Top Hole coordinates are  
N: 384,679.57" Latitude: 39°32'59.74"  
E: 1,645,984.36" Longitude: 80°45'19.74"  
Bottom Hole coordinates are  
N: 373,965.17" Latitude: 39°31'12.30"  
E: 1,649,095.11" Longitude: 80°44'38.103"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,377,842.994m N: 4,374,533.679m  
E: 521,023.379m E: 522,026.470m  
Plat orientation and corner and well references are based upon the grid north meridian.  
Well location references are based upon the magnetic meridian.

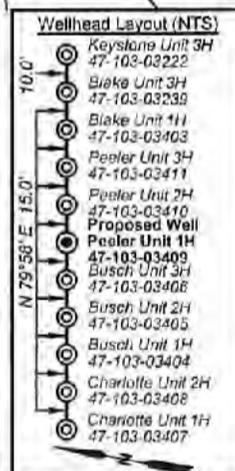
**Notes:**  
Well No. Peeler Unit 1H  
UTM Zone 17, NAD 1927

Top Hole Coordinates  
N: 14,362,257.90'  
E: 1,709,342.61'

Point of Entry Coordinates  
N: 14,362,087.06'  
E: 1,709,029.45'

Bottom Hole Coordinates  
N: 14,351,400.59'  
E: 1,712,634.19'

Bearing	Dist.
L1 S 40°59' E	2,574.0'
L2 S 45°20' W	1,519.8'
L3 N 64°49' W	996.8'
L4 N 38°33' W	841.0'
L5 S 82°21' W	357.0'



FILE NO: 326-34-G-17  
DRAWING NO: Peeler 1H 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 19 2021  
OPERATOR'S WELL NO. Peeler Unit 1H  
API WELL NO. 47-103-03409  
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  
DISTRICT: Green William L. & Christenson Family Trust; Suzann Marie Stoehr, et al; Stone Hill Minerals Holdings, LLC; COUNTY: Wayne 09/08/2021  
SURFACE OWNER: Delores J. Gadd Edwin D. & Jane C. Michael; Perry, Dale Thorne, Jr., et ux; Waco Oil & Gas Co., Inc.; ACREAGE: 60.5  
ROYALTY OWNER: Eilan W. & Mark L. Vandyne; John W. Bertram; Sandra Rose Conley; Acropolis, Inc. LEASE NO: ACREAGE: 3.18; 80; 32.25; 45.72  
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  
20,100' MD

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

**Antero Resources**  
**Well No. Peeler 1H**  
**BHL MOD**

Antero Resources Corporation



WV Dept.  
 Environmental Protection

ID	TM/Par	Owner	Bk/Pg	Acres
1	16-23	Kenneth E. Butler	331/110	50.97
2	16-23.1	Wetzel County Public Service District 1	433/851	0.23
3	16-31	William L. & Delores J. Gadd	348/169	2.65
4	16-22	William L. & Delores J. Gadd	348/169	60.50
5	16-10	Loren & Shirley Haught	444/434	100.48
6	16-30	William L. & Delores J. Gadd	348/169	14.00
7	16-47	William M. Greenawalt & Lee A. Niezgoda	387/1	12.00
8	16-39	Silas & William A. Tennant	WB27/97	23.3
9	16-40	William M. Greenawalt & Lee A. Niezgoda	387/1	18.00
10	16-57	Lee A. Niezgoda	402/90	1.06
11	16-40.1	William M. Greenawalt & Lee A. Niezgoda	387/1	2.00
12	16-46	Joyce Ann Haught, et al	WB37/335	23.50
13	16-56	James L. & Martha Jo Stewart	288/330	23.33
14	16-58	Mark & Michael Difiore	406/241	97.80
15	16-58.1	Harry K. & Shirley M. Eastham	438/3	7.21
16	16-62	Harry K. & Shirley M. Eastham	325/101	0.88
17	16-70	Jackie Lee & Joyce Anne Haught	246/86	0.50
18	16-61	Michael L. & Tina M. Adams	444/427	67.96
19	16-68	Harry K. & Shirley M. Eastham	325/101	4.70
20	16-64	Mark & Michael Difiore	406/241	6.60
21	16-71	Michael L. & Tina M. Adams	437/722	30.50
22	19-8.1	Edwin D. & Jane C. Michael	275/42	36.84
23	19-8.2	Edwin D. & Jane C. Michael	275/42	22.00
24	19-8.3	Edwin D. & Jane C. Michael	275/42	24.50
25	19-17	John R. & Mary Ann Horner	416/853	47.55
26	19-18	Ronald L. & Sharon Christenson Family Trust	439/377	30.00
27	19-25	Perry Dale, Jr. & Martha Jo Thorne	348/298	5.34
28	19-26	Perry Dale, Jr. & Martha Jo Thorne	348/298	25.00
29	19-27	Ronald L. & Sharon Christenson Family Trust	439/377	25.00
30	19-36	Perry Dale, Jr. & Martha Jo Thorne	348/298	20.00
31	19-28	Ronald L. & Sharon Christenson Family Trust	439/377	28.25
32	19-42	Sharon M. & Ronald L. Christenson	363/101	22.50
33	19-46	Sharon M. & Ronald L. Christenson	439/373	25.28
34	19-48	Teresa & Michael L. Bassett	423/982	51.00
35	19-47	Suzann M. Stoehr, et al	WB48/422	80.00
36	19-49	Michael L. & Teresa Bassett	366/315	32.25
37	19-50	Ronald H. Eastham, et al	424/70	40.00

Leases	
A	BRC Appalachian Minerals I, LLC
B	John W. Bertram
C	Gordon Cummings
D	Shiban Estates, Inc.
E	Sandra Rose Conley
F	Ellen W. & Mark L. VanDyne
G	Michael Tennant
H	Susie T. Grimm
I	Thomas M. Stackhouse
J	Acropolis, Inc
K	Chesapeake Appalachia, LLC
L	Richard L. Tennant
M	Emma Lee Rine
N	BRC Appalachian Minerals I, LLC
O	David E. Bowyer
P	Stone Hill Minerals Holdings, LLC
Q	Edwin D. & Jane C. Michael
R	H. Dorn Higginbotham
S	Thomas J. Iacoboni Revocable Trust Agreement
T	Perry Dale Thorne, Jr., et ux
U	Faye Ann Skinner, et al
V	Christenson Family Trust
W	Howard M. Henderson
X	Deborah A. Beaver
Y	Suzann Marie Stoehr, et al
Z	BRC Appalachian Minerals I, LLC
AA	Waco Oil & Gas Co., Inc.

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



DATE: July 19 2021  
 OPERATOR'S WELL NO. Peeler Unit 1H  
 API WELL NO HOID  
47 - 103 - 03409  
 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: BTM Hole: Pine Grove Top Hole: Porter Falls

DISTRICT: Green William L. & Delores J. Gadd COUNTY: Wetzel **08/08/2021**  
 SURFACE OWNER: Delores J. Gadd Christenson Family Trust; Suzann Marie Stoehr, et al; Stone Hill Minerals Holdings, LLC; Edwin D. & Jane C. Michael; Perry Dale Thorne, Jr., et ux; Waco Oil & Gas Co., Inc.; BRC Appalachian Minerals I, LLC (2); H. Dorn Higginbotham; Faye Ann Skinner, et al; Shiban Estates, Inc.; Thomas M. Stackhouse; Emma Lee Rine; David E. Bowyer; Howard M. Henderson; ACREAGE: 60.5 60.5; 30.5; 30.5; 40; 22; 24.58125; 50.35; 83.25; 22.5; 25.2875; 3.18; 80; 32.25; 45.72

ROYALTY OWNER: Ellen W. & Mark L. Vandyne; John W. Bertram; Sandra Rose Conley; Acropolis, Inc. 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  
20,100' 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
<b><u>BRC Appalachian Minerals LLC Lease</u></b>			
A BRC Appalachian Minerals LLC	SWN Production Company	1/8	0157/0540
SWN Production Company	Antero Exchange Properties LLC	Assignment	0177/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
<b><u>Shiben Estates Inc. Lease</u></b>			
D Shiben Estates Inc.	Antero Resources Corporation	1/8+	0176/0467
<b><u>Sandra Rose Conley Lease</u></b>			
E Sandra Rose Conley	SWN Production Company	1/8+	0157/0540
SWN Production Company	Antero Exchange Properties LLC	Assignment	0177/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
<b><u>Ellen W. &amp; Mark VanDyne Lease</u></b>			
F Ellen W. & Mark VanDyne	Antero Resources Corporation	1/8+	0184/0660
<b><u>Thomas M. Stackhouse Lease</u></b>			
I Thomas M. Stackhouse	Antero Resources Corporation	1/8+	0186/0110
<b><u>Acropolis Inc. Lease</u></b>			
J Acropolis Inc.	Antero Resources Corporation	1/8+	0179/0361
<b><u>Emma Lee Rine Lease</u></b>			
M Emma Lee Rine	Antero Resources Corporation	1/8+	0249/0738
<b><u>Waco Oil &amp; Gas Co Inc Lease</u></b>			
AA Waco Oil & Gas Co Inc	Antero Resources Corporation	1/8+	207A/724
<b><u>BRC Appalachian Minerals I LLC Lease</u></b>			
N BRC Appalachian Mineral I LLC	BRC Working Interest Company LLC	1/8+	102A/505
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	103A/470
Chesapeake Appalachia LLC	SWN Production Company	Assignment	157A/540
SWN Production Company	Antero Exchange Properties LLC	Assignment	177A/533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	13/311
<b><u>David E. Bowyer Lease</u></b>			
O David E. Bowyer	Antero Resources Corporation	1/8+	177A/105
<b><u>Stone Hill Minerals Holding LLC Lease</u></b>			
P Stone Hill Minerals Holding LLC	Antero Resources Corporation	1/8+	259A/769

\*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.

08/06/2021

**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
<b>Q</b> <u>Edwin D. &amp; Jane C. Michael Lease</u> Edwin D. & Jane C. Michael	Antero Resources Corporation	1/8+	191A/245
<b>R</b> <u>H. Dorn Higginbotham Lease</u> H. Dorn Higginbotham	Antero Resources Corporation	1/8+	178A/647
<b>T</b> <u>Perry Dale Thorne Jr et ux Lease</u> Perry Dale Thorne Jr et ux	Antero Resources Corporation	1/8+	135A/318
<b>U</b> <u>Faye Ann Skinner et al Lease</u> Faye Ann Skinner et al Gastar Exploration USA Inc Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC Antero Exchange Properties LLC	Gastar Exploration USA Inc Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC Antero Exchange Properties LLC Antero Resources Corporation	1/8 Assignment Assignment Merger Assignment Merger	264/253 132A/259 158A/801 13/296 177A/533 13/311
<b>V</b> <u>Christenson Family Trust Lease</u> Christenson Family Trust	Antero Resources Corporation	1/8+	186A/581
<b>W</b> <u>Howard M. Henderson Lease</u> Howard M. Henderson Gastar Exploation USA Inc Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC	Gastar Exploration USA Inc Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC Antero Resources Corporation	1/8 Assignment Assignment Merger Assignment Merger	109A/916 132A/259 158A/801 13/296 177A/533 13/311
<b>Y</b> <u>Suzann Marie Stoehr et al Lease</u> Suzann Marie Stoehr et al	Antero Resources Corporation	1/8+	203A/550

\*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.

**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
<b>BRC Appalachian Minerals I LLC Lease</b>	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	102A/505
	BRC Working Interest Company I LLC	Chesapeake Appalachia LLC	Assignment	103A/470
	Chesapeake Appalachia LLC	SWN Production Company	Assignment	157A/540
	SWN Production Company	Antero Exchange Properties LLC	Assignment	177A/533
	<b>Antero Exchange Properties LLC</b>	<b>Antero Resources Corporation</b>	<b>Merger</b>	<b>13/311</b>

\*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.

RECEIVED  
Office of Oil and Gas  
JUL 21 2021  
WV Department of  
Environmental Protection

**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.

Well Operator: Antero Resources Corporation  
By: Tim Rady  
Its: VP of Land

\*Co-tenancy utilization – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act



Stansberry, Wade A <[wade.a.stansberry@wv.gov](mailto:wade.a.stansberry@wv.gov)>

---

## Expedited Modification H6A Horizontal Well Work Permit (API: 47-103-03409)

1 message

---

**Stansberry, Wade A** <[wade.a.stansberry@wv.gov](mailto:wade.a.stansberry@wv.gov)>

Tue, Aug 3, 2021 at 7:57 AM

To: Mallory Stanton <[mstanton@anteroresources.com](mailto:mstanton@anteroresources.com)>, Dani DeVito <[ddevito@shalepro.com](mailto:ddevito@shalepro.com)>

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

I have attached a copy of the newly issued well [permit](#) number "PEELER UNIT 1H", API (47-103-03409). 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](mailto:Wade.A.Stansberry@wv.gov)**

---

 **47-103-03409 - mod.pdf**  
1204K

08/06/2021