



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, August 11, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for SEAGRAVE 1H
47-095-02697-00-00

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.

James A. Martin
Chief

Operator's Well Number: SEAGRAVE 1H
Farm Name: RICHARD D. PYLES
U.S. WELL NUMBER: 47-095-02697-00-00
Horizontal 6A New Drill
Date Modification Issued: August 11, 2020

Promoting a healthy environment.



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

August 7, 2020

Check # 220081
7/23/2020
\$5,000.00

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Ms. Laura Adkins
601 57th Street
Charleston, WV 25304

Ms. Laura Adkins:

Antero Resources Corporation (Antero) would like to submit the following permit modification for the following expedited approved well on the existing Pyles Pad: Seagrave Unit 1H (API # 47-095-02697).

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the updated POE & Measured Depth
- REVISED Form WW-6A1, which shows the new leases we will be drilling into
- REVISED Mylar Plat, which shows the new Lateral Length & Estimated Measured Depth
- AOR & As-Built Design

If you have any questions please feel free to contact me at (303) 357-7223.

Thank you in advance for your consideration.

Sincerely,

Megan Griffith
Permitting Agent
Antero Resources Corporation

Enclosures

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Office of Oil and Gas

AUG 10 2020

WV Department of
Environmental Protection

WW-6B
(04/15)

API NO. 47-095 - 02697
 OPERATOR WELL NO. Seagrave Unit 1H
 Well Pad Name: Pyles Pad

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

1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Ellsworth Porter Falls 7.5'
 Operator ID County District Quadrangle

2) Operator's Well Number: Seagrave Unit 1H Well Pad Name: Pyles Pad

3) Farm Name/Surface Owner: Richard D. Pyles Public Road Access: US Route 34

4) Elevation, current ground: 1081' Elevation, proposed post-construction: ~1081'

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: 7100' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7100' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25100' MD

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11) Proposed Horizontal Leg Length: 15992'

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12) Approximate Fresh Water Strata Depths: 61'

13) Method to Determine Fresh Water Depths: 47-095-01958

WV Department of
Environmental Protection

14) Approximate Saltwater Depths: 2200'

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: _____

WW-6B
(04/15)

API NO. 47- 095 - 02697
OPERATOR WELL NO. Seagrave Unit 1H
Well Pad Name: Pyles Pad

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, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300	CTS, 417 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#	25100	25100	6494 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"	0.438"	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			

WW-6B
(10/14)

API NO. 47- 095 - 02697
OPERATOR WELL NO. Seagrave Unit 1H
Well Pad Name: Pyles Pad

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.

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): 23.71 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.00 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.

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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

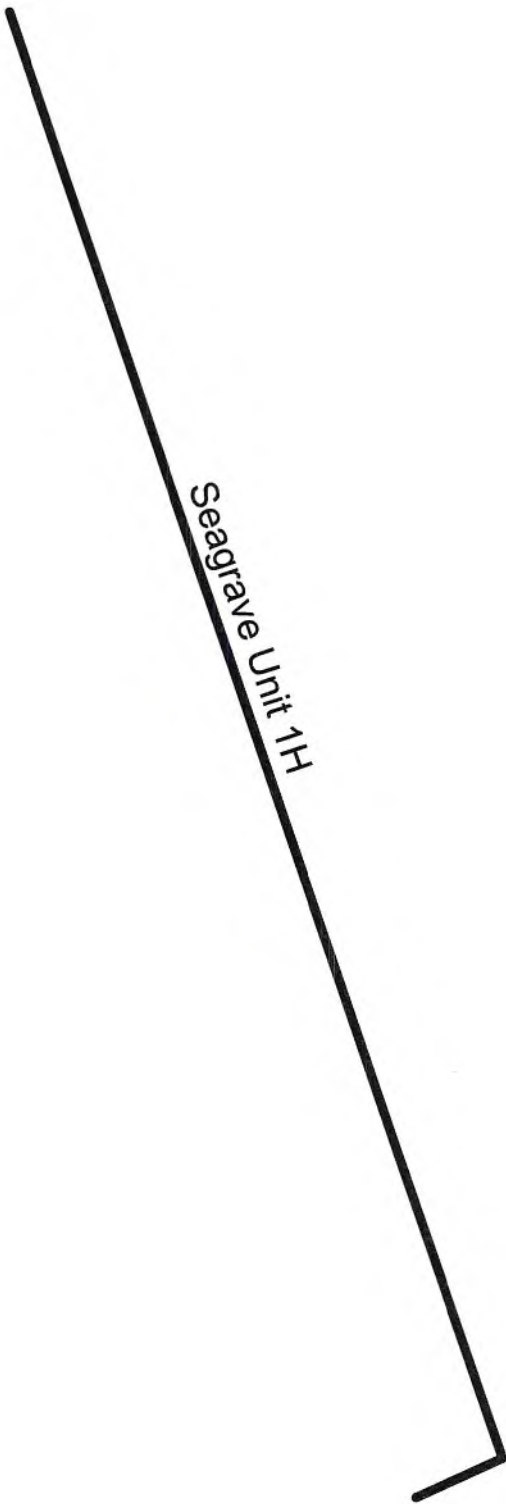
WV Department of
Environmental Protection

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

PERMIT MODIFICATION API # 47-095-02697



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Environmental Protection



Antero Resources Corporation

Seagrave Unit 1H - AOR



REMARKS
No Wells of Interest

April 15, 2020

Antero Resources
Well No. Seagrave 1H
BHL MOD
Antero Resources Corporation



Wellhead Layout

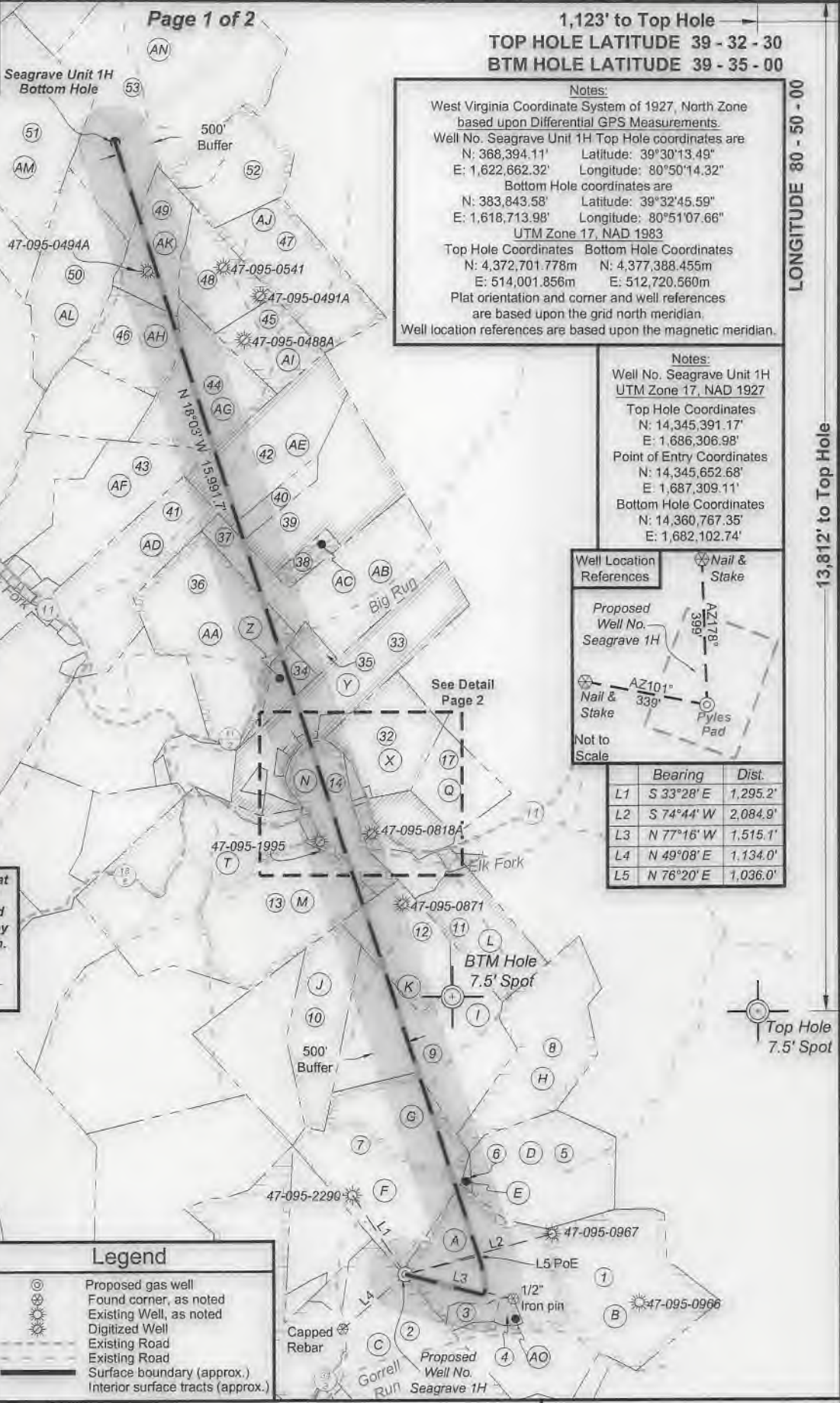
- Vulcan Unit 1H
47-095-02701
- Vulcan Unit 2H
47-095-02702
- Prosper Unit 1H
47-095-02699
- Prosper Unit 2H
47-095-02700
- Friend Unit 1H
47-095-02695
- Friend Unit 2H
47-095-02696
- Proposed
- Seagrave Unit 1H
47-095-02697
- Seagrave Unit 2H
47-095-02698



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

Note: 3 water wells were 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

- ☉ Proposed gas well
- ⊙ Found corner, as noted
- ☼ Existing Well, as noted
- ☼ Digitized Well
- Existing Road
- Existing Road
- - - Surface boundary (approx.)
- - - Interior surface tracts (approx.)

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Seagrave Unit 1H Top Hole coordinates are
 N: 368,394.11' Latitude: 39°32'13.49"
 E: 1,622,662.32' Longitude: 80°50'14.32"
 Bottom Hole coordinates are
 N: 383,843.58' Latitude: 39°32'45.59"
 E: 1,618,713.98' Longitude: 80°51'07.66"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,372,701.778m N: 4,377,388.455m
 E: 514,001.856m E: 512,720.560m
 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. Seagrave Unit 1H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,345,391.17'
 E: 1,686,306.98'
 Point of Entry Coordinates
 N: 14,345,652.68'
 E: 1,687,309.11'
 Bottom Hole Coordinates
 N: 14,360,767.35'
 E: 1,682,102.74'



	Bearing	Dist.
L1	S 33°28' E	1,295.2'
L2	S 74°44' W	2,084.9'
L3	N 77°16' W	1,515.1'
L4	N 49°08' E	1,134.0'
L5	N 76°20' E	1,036.0'

5,300' to Bottom Hole

1,123' to Top Hole
TOP HOLE LATITUDE 39 - 32 - 30
BTM HOLE LATITUDE 39 - 35 - 00

LONGITUDE 80 - 50 - 00

13,812' to Top Hole

13,600' to Bottom Hole

FILE NO: 100-54-E-19
 DRAWING NO: Seagrave Unit 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

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

DATE: July 15 2020
 OPERATOR'S WELL NO. Seagrave 1H
 API WELL NO ~~MDA~~
 47 - 095 - 02697
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
 DISTRICT: Eilsworth COUNTY: Tyler
 SURFACE OWNER: Richard D. Pyles BRC Appalachian Minerals I, LLC (4); B&C Oil & Gas Company (2);
 Ridgletop Capital; Darrell Sole; Helen M. Karcinski, et al; Rose Enterprises, LLC. ACREAGE: 168.5
 ROYALTY OWNER: Richard D. Pyles, et ux; Helen E. Boggs; Joseph L. Sitko, et ux, Will E. Morris Trust; LEASE NO: _____ ACREAGE: 50.5; 30; 30;
 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: 7,100' TVD
25,100' 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. Seagrave 1H
BHL MOD
Antero Resources Corporation



Wellhead Layout

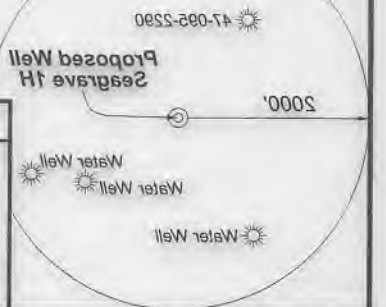
47-095-02701	Vulcan Unit 1H
47-095-02702	Vulcan Unit 2H
47-095-02703	Proser Unit 1H
47-095-02889	Proser Unit 2H
47-095-02700	Friend Unit 1H
47-095-02893	Friend Unit 2H
47-095-02896	Proposed
47-095-02897	Seagrave Unit 1H
47-095-02898	Seagrave Unit 2H



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, P.S. 2167

Note: 3 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used for house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Legend

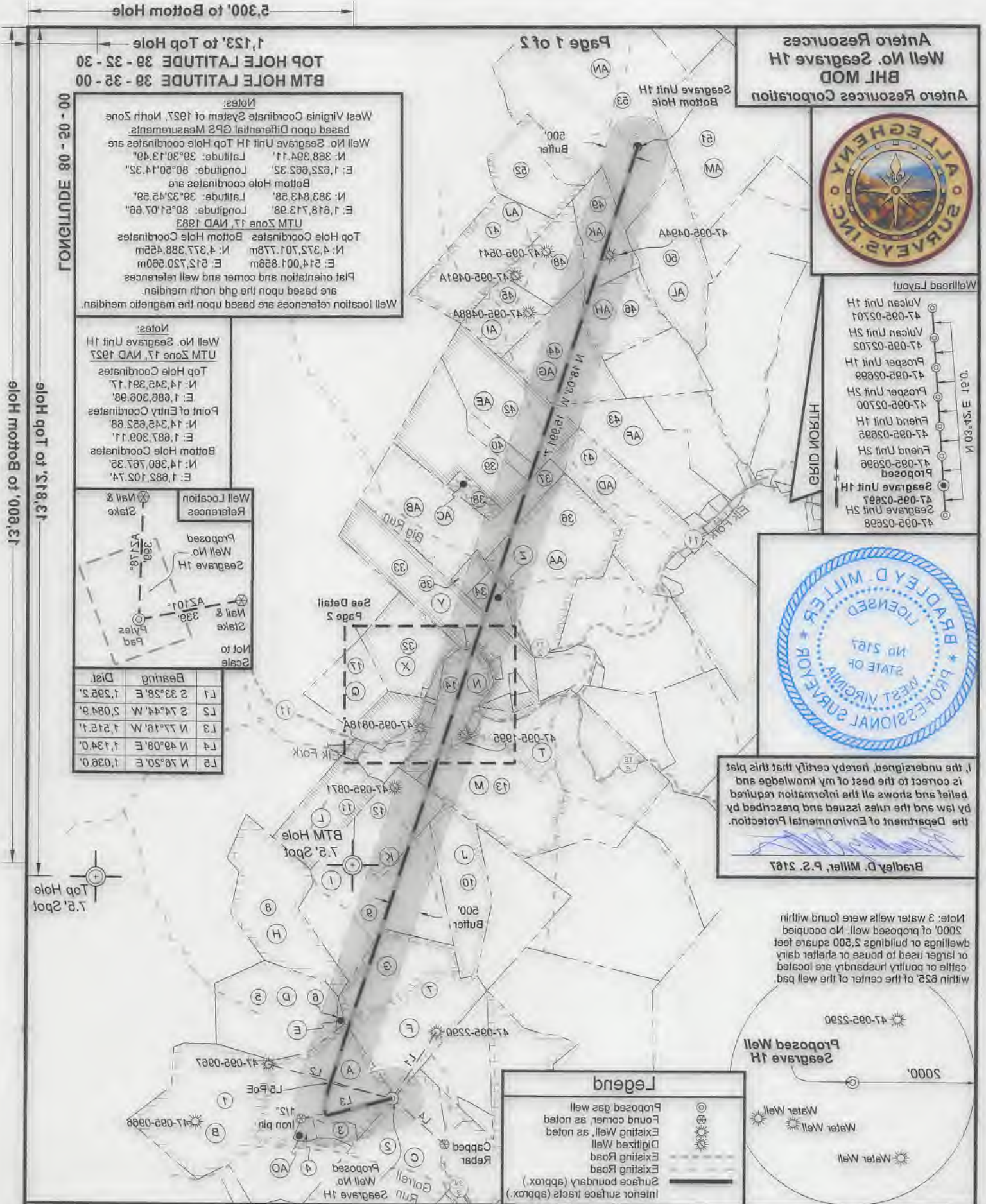
	Proposed gas well
	Found corner, as noted
	Existing Well, as noted
	Digitized Well
	Existing Road
	Existing Road
	Surface boundary (approx.)
	Interior surface tract (approx.)

Line	Bearing	Dist.
L1	S 33°58' E	1.2825'
L2	S 74°44' W	2.0849'
L3	N 77°18' W	1.5181'
L4	N 49°08' E	1.1340'
L5	N 78°50' E	1.0360'



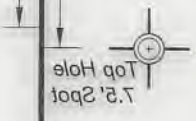
Notes:
Well No. Seagrave Unit 1H
UTM Zone 17, NAD 1983
Top Hole Coordinates
Bottom Hole Coordinates
Point of Entry Coordinates
Bottom Hole Coordinates

Notes:
Well location references are based upon the magnetic meridian
are based upon the grid north meridian.
Plat orientation and corner and well references
Top Hole Coordinates Bottom Hole Coordinates
UTM Zone 17, NAD 1983
Point of Entry Coordinates
Bottom Hole Coordinates
UTM Zone 17, NAD 1983
Top Hole Coordinates
Bottom Hole Coordinates
Point of Entry Coordinates
Bottom Hole Coordinates



1,123' to Top Hole
5,300' to Bottom Hole
Longitude 80 - 20 - 00

13,000' to Bottom Hole
13,813' to Top Hole



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

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

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: 25100' TVD
7100' TVD

ROYALTY OWNER: Richard D. Pyles et ux; Helen E. Boggs; Joseph L. Sisko et ux; Will E. Morris Trust;
SURFACE OWNER: Richard D. Pyles
DISTRICT: Ellsworth
LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
81482; 177; 48;
64486; 134; 38382;
10278; 10; 82;
2116; 71283;
13025; 70; 7182;
805; 30; 30;

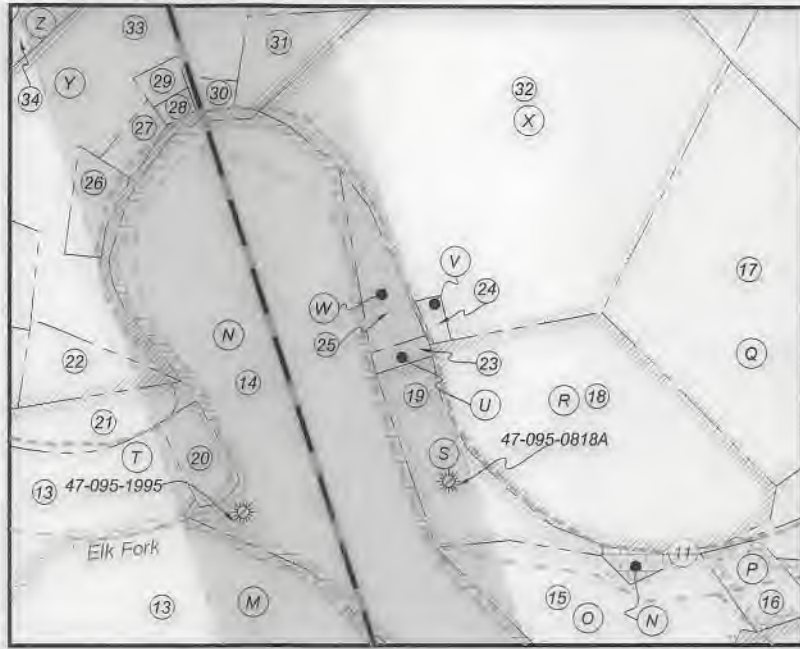
LEASE NO: ACREAGE: 168.5
ACREAGE: 168.5
COUNTY: Tyler
WATERSHED: Outlet Middle Island Creek
QUADRANGLE: Porter Falls

PROVEN SOURCE OF ELEVATION: Submeter
MINIMUM DEGREE OF ACCURACY:
SCALE: 1" = 2000'
DRAWING NO: Seagrave Unit 1H Well Plat
FILE NO: 100-54-E-19

STATE COUNTY PERMIT
47 - 095 - 02897
API WELL NO MOD

OPERATORS WELL NO Seagrave 1H
DATE: July 15 2020

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



ID	TM/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.5
2	16-44	Robert A. Pyles, et al	335/482	87.82
3	16-42.1	Richard D. Pyles	336/815	4.56
4	16-42.2	Bonnie J. Hair	569/105	2.44
5	16-24	Harry Eastham, et al	AR54/518	64.00
6	16-21	Kayla Leek	531/56	61.73
7	16-22	Joseph L. Jr. & Karen Sitko	296/13	81.70
8	16-21	Kayla Leek	531/56	67.73
9	16-2	David E. Bowyer	622/775	80.75
10	16-1	Antero Midstream, Inc.	617/739	35.25
11	16-5	David Leek	422/762	34.38
12	16-4	Darrell J. Sole	227/376	35.00
13	15-9	Antero Midstream, Inc.	586/544	132.19
14	11-36	David W. Fiber	574/847	21.16
15	16-52	Darrell Sole	238/145	9.04
16	16-5.3	David Leek	434/453	1.46
17	11-40	Samuel L. & Peggy S. Leek	362/408	21.39
18	11-39	Ronnie H. Seagrave	361/236	12.30
19	11-37	Gary & Melissa Piliant	348/717	4.41
20	10-53	Kathy M. & Doug O. Smith	331/220	1.10
21	10-52	Darwin & Shirley Martin	306/537	5.00
22	10-72	Darwin & Shirley Martin	322/28	1.99
23	11-82	Minerva Banks	250/652	0.59
24	11-36.1	Ronnie H. Seagrave	361/236	0.26
25	11-81	Stephen D. Riggs, et al	362/441	2.50
26	10-70	Darwin & Shirley Martin	326/490	1.19
27	11-32.2	Bernard R. & Denise F. McDougal	636/587	0.54
28	11-32.4	Tony Ware	453/256	0.24
29	11-32.1	Melissa Stiles	380/290	0.34
30	11-33	Gary L. & Shirley A. Felton	337/136	0.39
31	11-79	Gary L. & Shirley A. Felton	337/136	4.00
32	11-34	Michael W. & Brenda S. Schmidt	582/483	31.74
33	11-32	Darwin & Shirley Martin	348/344	60.66
34	10-51	Charles E. & Laura Lynn Friend	334/839	8.03
35	10-50	Charles E. & Laura Lynn Friend	334/839	5.00
36	10-49	Charles E. & Laura Lynn Friend	334/836	71.52
37	11-1	Gertrude L. Pugh	314/140	70.00
38	11-2	Richard A. Fonner	415/796	6.00
39	11-3	Howard & Helen Young	198/126	59.90
40	10-69	Howard & Helen Young	198/126	5.10
41	10-46	Opal Carol Tallman	282/382	114.00
42	10-8	Helen M. Young	198/126	50.50
43	10-10	Ronald D. & Sandra Sue Martin	378/322	58.35
44	10-9	Brian E. & Barbara J. Courtney	344/626	52.00
45	10-7	Burl Rice	180/65	25.47
46	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
47	10-68	Larry M. Adams	343/792	50.25
48	10-6	The Rutter Family Revocable Trust	340/715	24.53
49	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
50	10-4	Stefan L. & Alberta B. Smolski	356/467	56.08
51	6-36	Dennis & Clista A. Heintzman	297/640	417.06
52	7-32	Robert A. Mercer	399/676	61.13
53	6-30.1	Larry M. & Amy B. Adams	369/344	150.34

Leases	
A	Richard D. Pyles, et ux
B	James F. Doan, et ux
C	Helen E. Boggs
D	BRC Appalachian Minerals I, LLC
E	BRC Appalachian Minerals I, LLC
F	Joseph L. Sitko, et ux
G	BRC Appalachian Minerals I, LLC
H	BRC Appalachian Minerals I, LLC
I	BRC Appalachian Minerals I, LLC
J	BRC Appalachian Minerals I, LLC
K	BRC Appalachian Minerals I, LLC
L	David Leek
M	Will E. Morris Trust
N	Kathy Marie Smith
O	Donna Ables
P	David Leek
Q	Reita Jane Hall
R	Antero Resources Corp.
S	Melissa Dawn Piliant, et vir
T	Jerry Shoemaker
U	OPEN
V	OPEN
W	OPEN
X	Jerry R. Brightwell & Gwendolyn C. Davies
Y	Haught Family Trust
Z	Karen J. Wolfe
AA	Darrell Sole
AB	Ridgetop Capital
AC	Richard A. Fonner
AD	Allen Smith
AE	Helen M. Karcinski, et al
AF	B&C Oil & Gas Company
AG	BRC Appalachian Minerals I, LLC
AH	B&C Oil and Gas Company
AI	Linda K. Loehr
AJ	Will E. Morris Heir Trust
AK	B&C Oil & Gas Company
AL	Rose Enterprises, LLC
AM	BRC Appalachian Minerals I, LLC
AN	NO LEASE
AO	Dustin A. Hendershot

FILE NO: 100-54-E-19
DRAWING NO: Seagrave Unit 1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

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

DATE: July 15 2020
OPERATOR'S WELL NO. Seagrave 1H
API WELL NO. ~~WV01~~
47 - 095 - 02697
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
DISTRICT: Ellsworth COUNTY: Tyler 81.482; 177; 45; 64.65; 134; 36.3625; 102.75; 10; 52; 21.16; 71.283; 13.025; 70; 71.52; 50.5; 30; 30;
SURFACE OWNER: Richard D. Pyles BRC Appalachian Minerals I, LLC (4); B&C Oil & Gas Company (2); Ridgetop Capital; Darrell Sole; Helen M. Karcinski, et al; Rose Enterprises, LLC
ROYALTY OWNER: Richard D. Pyles, et ux; Helen E. Boggs; Joseph L. Sitko, et ux; Will E. Morris Trust; 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: 7,100' TVD 25,100' 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



ID	TMPar	Owner	DBP#	Acres
23	8-30-1	Larry M. & Amy B. Adams	369344	120.34
22	7-32	Robert A. Mercer	399678	61.13
21	6-38	Dennis & Gista A. Heinzelman	237640	417.06
20	10-4	Steen L. & Alberta B. Smoleki	358167	56.08
19	10-8	Brian E. & Barbara J. Courtney	344826	30.00
18	10-8	The Rutter Family Revocable Trust	340175	24.23
17	10-8	Larry M. Adams	343122	20.22
16	10-2	Brian E. & Barbara J. Courtney	344828	30.00
15	10-2	Brian E. & Barbara J. Courtney	344828	30.00
14	10-2	Brian E. & Barbara J. Courtney	344828	30.00
13	10-2	Brian E. & Barbara J. Courtney	344828	30.00
12	10-2	Brian E. & Barbara J. Courtney	344828	30.00
11	10-2	Brian E. & Barbara J. Courtney	344828	30.00
10	10-2	Brian E. & Barbara J. Courtney	344828	30.00
9	10-2	Brian E. & Barbara J. Courtney	344828	30.00
8	10-2	Brian E. & Barbara J. Courtney	344828	30.00
7	10-2	Brian E. & Barbara J. Courtney	344828	30.00
6	10-2	Brian E. & Barbara J. Courtney	344828	30.00
5	10-2	Brian E. & Barbara J. Courtney	344828	30.00
4	10-2	Brian E. & Barbara J. Courtney	344828	30.00
3	10-2	Brian E. & Barbara J. Courtney	344828	30.00
2	10-2	Brian E. & Barbara J. Courtney	344828	30.00
1	10-2	Brian E. & Barbara J. Courtney	344828	30.00

Leases	Owner	Acres
AO	Dustin A. Hendershot	168.5
AM	BRC Aqbalachian Minerals I, LLC	81.70
AN	NO LEASE	0.00
AL	Rose Enterprises, LLC	56.08
AK	B&C Oil & Gas Company	30.00
AJ	Will E. Morris Trust	20.22
AI	Linda K. Loefer	30.00
AH	B&C Oil and Gas Company	25.47
AG	BRC Aqbalachian Minerals I, LLC	37.82
AF	B&C Oil & Gas Company	50.50
AE	Helen M. Karciński, et al	144.00
AD	Allen Smith	10.10
AC	Richard A. Fournier	59.90
AB	Ridgeloop Capital	6.00
AA	Danell Sole	70.00
Z	Karen J. Wolfe	2.00
Y	Handlri Family Trust	60.86
X	Gwendolyn C. Davies & Jerry R. Brightwell	31.74
W	OPEN	4.00
V	OPEN	0.34
U	OPEN	0.24
T	Jerry Stoenmeyer	0.24
S	Melissa Dawn Plant, et vir	2.20
R	Antero Resources Corp.	0.26
Q	Reira Jane Hall	0.26
P	David Leek	1.99
O	Donna Adles	2.00
N	Kathy Marie Smith	4.41
M	Will E. Morris Trust	4.41
L	David Leek	12.30
K	BRC Aqbalachian Minerals I, LLC	0.04
J	BRC Aqbalachian Minerals I, LLC	0.04
I	BRC Aqbalachian Minerals I, LLC	0.04
H	BRC Aqbalachian Minerals I, LLC	0.04
G	BRC Aqbalachian Minerals I, LLC	0.04
F	BRC Aqbalachian Minerals I, LLC	0.04
E	BRC Aqbalachian Minerals I, LLC	0.04
D	BRC Aqbalachian Minerals I, LLC	0.04
C	Helen E. Boggs	0.04
B	James F. Doan, et ux	0.04
A	Richard D. Pyles, et ux	0.04

WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Street, Denver, CO 80202

DESIGNATED AGENT: Dinna Stamber - CT Corporation System
ADDRESS: 5400 D Big Tyler Road, Chesteen, WV 25313

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

PROVEN SOURCE OF ELEVATION: Survey Submeter

MINIMUM DEGREE OF ACCURACY: 1" = 2000'

DRAWING NO: 2529ave Unit 1H Well Plat
FILE NO: 100-54-E-19

ROYALTY OWNER: Richard D. Pyles, et ux; Helen E. Boggs; Joseph L. Stiklo, et ux; Will E. Morris Trust; Karen Marie Smith; Handlri Family Trust; Karen J. Wolfe; BRC Aqbalachian Minerals I, LLC (4); B&C Oil & Gas Company (2);
SURFACE OWNER: Richard D. Pyles; Ridgeloop Capital; Danell Sole; Helen M. Karciński, et al; Rose Enterprises, LLC; DISTRIC: Ellsworth

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25100' TVD
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD

ACREAGE: 168.5 COUNTY: Tyler QUADRANGLE: Porter Falls
ACREAGE: 50.5 COUNTY: Tyler QUADRANGLE: Porter Falls

DATE: July 15 2020
OPERATORS WELL NO: 2529ave 1H
API WELL NO: MOD
STATE: CO COUNTY: PERMIT: 02697

Antero Resources
Well No. Seagrave 1H
BHL MOD
Antero Resources Corporation



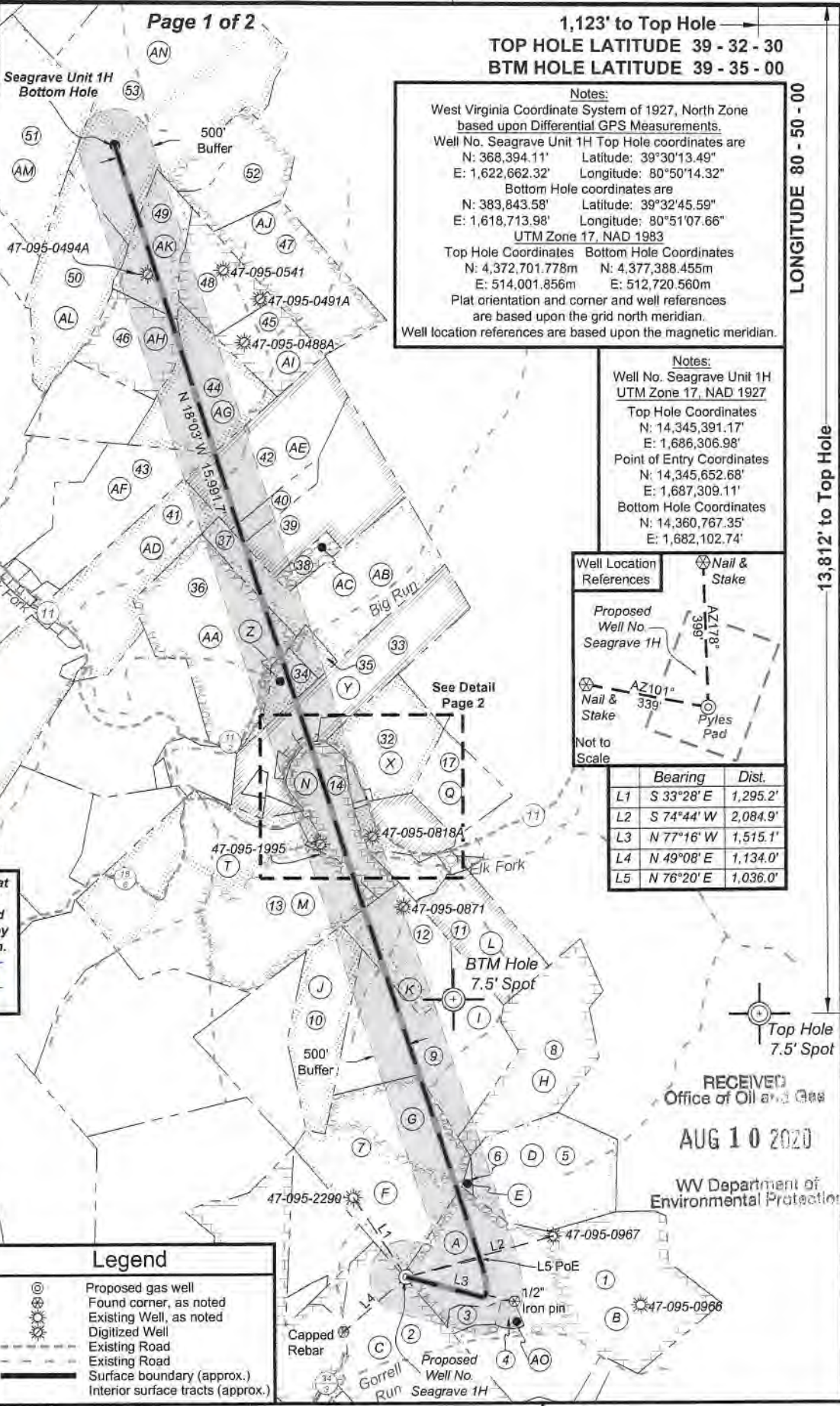
- Wellhead Layout**
- Vulcan Unit 1H
47-095-02701
 - Vulcan Unit 2H
47-095-02702
 - Prosper Unit 1H
47-095-02699
 - Prosper Unit 2H
47-095-02700
 - Friend Unit 1H
47-095-02695
 - Friend Unit 2H
47-095-02696
 - Proposed
Seagrave Unit 1H
47-095-02697
 - Seagrave Unit 2H
47-095-02698



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

Note: 3 water wells were 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

- Proposed gas well
- Found corner, as noted
- Existing Well, as noted
- Digitized Well
- Existing Road
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Seagrave Unit 1H Top Hole coordinates are
 N: 368,394.11' Latitude: 39°30'13.49"
 E: 1,622,662.32' Longitude: 80°50'14.32"
 Bottom Hole coordinates are
 N: 383,843.58' Latitude: 39°32'45.59"
 E: 1,618,713.98' Longitude: 80°51'07.66"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,372,701.778m N: 4,377,388.455m
 E: 514,001.856m E: 512,720.560m
 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. Seagrave Unit 1H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,345,391.17'
 E: 1,686,306.98'
 Point of Entry Coordinates
 N: 14,345,652.68'
 E: 1,687,309.11'
 Bottom Hole Coordinates
 N: 14,360,767.35'
 E: 1,682,102.74'



	Bearing	Dist.
L1	S 33°28' E	1,295.2'
L2	S 74°44' W	2,084.9'
L3	N 77°16' W	1,515.1'
L4	N 49°08' E	1,134.0'
L5	N 76°20' E	1,036.0'

RECEIVED
 Office of Oil and Gas
AUG 10 2020
 WV Department of Environmental Protection

FILE NO: 100-54-E-19
 DRAWING NO: Seagrave Unit 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

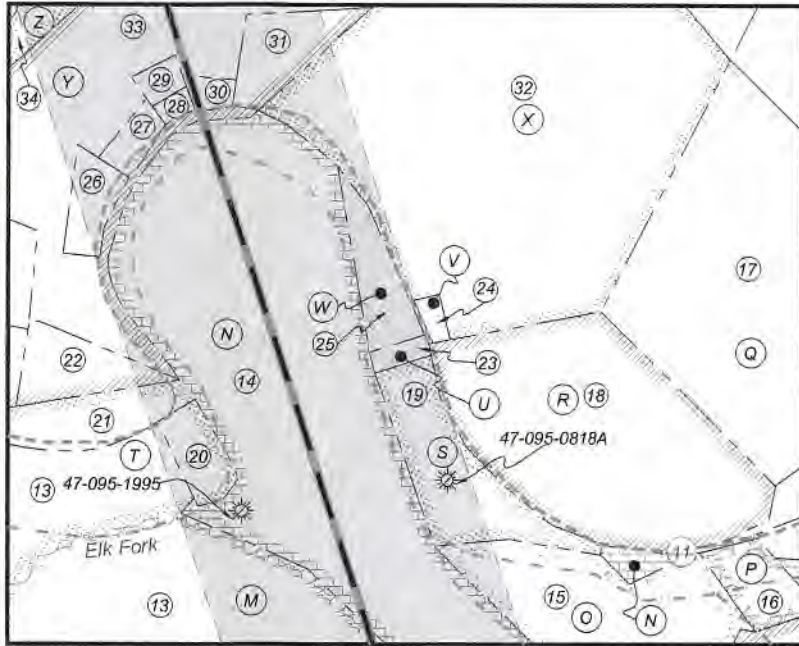
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: July 15 2020
 OPERATOR'S WELL NO. Seagrave 1H
 API WELL NO MOD
 47 - 095 - 02697
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Richard D. Pyles BRC Appalachian Minerals I, LLC (4); B&C Oil & Gas Company (2);
 Ridgetop Capital; Darrell Sole; Helen M. Karcinski, et al; Rose Enterprises, LLC
 ROYALTY OWNER: Richard D. Pyles, et ux; Helen E. Boggs; Joseph L. Sitko, et ux, Will E. Morris Trust; Karen Marie Smith; Haught Family Trust, Karen J. Wolfe;
 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: 7,100' TVD
25,100' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1815 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313



ID	TM/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.5
2	16-44	Robert A. Pyles, et al	335/482	87.82
3	16-42.1	Richard D. Pyles	336/815	4.56
4	16-42.2	Bonnie J. Hair	569/105	2.44
5	16-24	Harry Eastham, et al	AR54/518	64.00
6	16-21	Kayla Leek	531/56	61.73
7	16-22	Joesh L. Jr. & Karen Sitko	296/13	81.70
8	16-21	Kayla Leek	531/56	67.73
9	16-2	David E. Bowyer	622/775	80.75
10	16-1	Antero Midstream, Inc.	617/739	35.25
11	16-5	David Leek	422/762	34.38
12	16-4	Darrell J. Sole	227/376	35.00
13	15-9	Antero Midstream, Inc.	586/544	132.19
14	11-36	David W. Fiber	574/847	21.16
15	16-52	Darrell Sole	238/145	9.04
16	16-5.3	David Leek	434/453	1.46
17	11-40	Samuel L. & Peggy S. Leek	362/408	21.39
18	11-39	Ronnie H. Seagrave	361/236	12.30
19	11-37	Gary & Melissa Pilant	348/717	4.41
20	10-53	Kathy M. & Doug O. Smith	331/220	1.10
21	10-52	Darwin & Shirley Martin	306/537	5.00
22	10-72	Darwin & Shirley Martin	322/28	1.99
23	11-82	Minerva Banks	250/652	0.59
24	11-36.1	Ronnie H. Seagrave	361/236	0.26
25	11-81	Stephen D. Riggs, et al	362/441	2.50
26	10-70	Darwin & Shirley Martin	326/490	1.19
27	11-32.2	Bernard R. & Denise F. McDougal	636/587	0.54
28	11-32.4	Tony Ware	453/256	0.24
29	11-32.1	Melissa Stiles	380/290	0.34
30	11-33	Gary L. & Shirley A. Felton	337/136	0.39
31	11-79	Gary L. & Shirley A. Felton	337/136	4.00
32	11-34	Michael W. & Brenda S. Schmidt	582/483	31.74
33	11-32	Darwin & Shirley Martin	348/344	60.66
34	10-51	Charles E. & Laura Lynn Friend	334/839	8.03
35	10-50	Charles E. & Laura Lynn Friend	334/839	5.00
36	10-49	Charles E. & Laura Lynn Friend	334/836	71.52
37	11-1	Gertrude L. Pugh	314/140	70.00
38	11-2	Richard A. Fonner	415/796	6.00
39	11-3	Howard & Helen Young	198/126	59.90
40	10-69	Howard & Helen Young	198/126	5.10
41	10-46	Opal Carol Tallman	282/382	114.00
42	10-8	Helen M. Young	198/126	50.50
43	10-10	Ronald D. & Sandra Sue Martin	378/322	58.35
44	10-9	Brian E. & Barbara J. Courtney	344/626	52.00
45	10-7	Burt Rice	180/65	25.47
46	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
47	10-68	Larry M. Adams	343/792	50.25
48	10-6	The Rutter Family Revocable Trust	340/715	24.53
49	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
50	10-4	Stefan L. & Alberta B. Smolski	356/467	56.08
51	6-36	Dennis & Clista A. Heintzman	297/640	417.06
52	7-32	Robert A. Mercer	399/676	61.13
53	6-30.1	Larry M. & Amy B. Adams	369/344	150.34

Leases	
A	Richard D. Pyles, et ux
B	James F. Doan, et ux
C	Helen E. Boggs
D	BRC Appalachian Minerals I, LLC
E	BRC Appalachian Minerals I, LLC
F	Joseph L. Sitko, et ux
G	BRC Appalachian Minerals I, LLC
H	BRC Appalachian Minerals I, LLC
I	BRC Appalachian Minerals I, LLC
J	BRC Appalachian Minerals I, LLC
K	BRC Appalachian Minerals I, LLC
L	David Leek
M	Will E. Morris Trust
N	Kathy Marie Smith
O	Donna Ables
P	David Leek
Q	Reita Jane Hall
R	Antero Resources Corp.
S	Melissa Dawn Pilant, et vir
T	Jerry Shoemaker
U	OPEN
V	OPEN
W	OPEN
X	Jerry R Brightwell & Gwendolyn C. Davies
Y	Haught Family Trust
Z	Karen J. Wolfe
AA	Darrell Sole
AB	Ridgetop Capital
AC	Richard A. Fonner
AD	Allen Smith
AE	Helen M. Karcinski, et al
AF	B&C Oil & Gas Company
AG	BRC Appalachian Minerals I, LLC
AH	B&C Oil and Gas Company
AI	Linda K. Loehr
AJ	Will E. Morris Heir Trust
AK	B&C Oil & Gas Company
AL	Rose Enterprises, LLC
AM	BRC Appalachian Minerals I, LLC
AN	NO LEASE
AO	Dustin A. Hendershot

RECEIVED
 Office of Oil and Gas
 AUG 10 2020
 WV Department of
 Environmental Protection

FILE NO: 100-54-E-19
 DRAWING NO: Seagrave Unit 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

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

DATE: July 15 2020
 OPERATOR'S WELL NO. Seagrave 1H
 API WELL NO ~~MOD~~
 47 - 095 - 02697
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Richard D. Pyles BRC Appalachian Minerals I, LLC (4); B&C Oil & Gas Company (2);
 Karen Marie Smith; Haught Family Trust, Karen J. Wolfe; ACREAGE: 168.5
 ROYALTY OWNER: Richard D. Pyles, et ux; Helen E. Boggs; Joseph L. Sitko, et ux, Will E. Morris Trust; LEASE NO: _____ ACREAGE: 50.5; 30; 30;
 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: 7,100' TVD
25,100' 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

WW-6A1

Operator's Well Number Seagrave Unit 1H

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>Richard D. Pyles Lease</u>			
Richard D. Pyles	Antero Resources Corporation	1/8+	0562/0590
<u>Joseph L. Sitko Jr. et ux Lease</u>			
Joseph L. Sitko Jr. et ux	TNG LLC	1/8	0375/0390
TNG LLC	Chesapeake Appalachia LLC	Assignment	0375/0261
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc.	Assignment	0423/0152
Statoil USA Onshore Properties Inc.	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0022/0144
<u>BRC Appalachian Minerals LLC Lease (TM 16 PCL 24)</u>			
BRC Appalachian Minerals LLC	BRC Working Interest Company	1/8	0369/0300
BRC Working Interest Company	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>BRC Appalachian Minerals LLC Lease (TM 16 PCL 2)</u>			
BRC Appalachian Minerals LLC	BRC Working Interest Company	1/8	0369/0300
BRC Working Interest Company	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>BRC Appalachian Minerals LLC Lease (TM 16 PCL 3)</u>			
BRC Appalachian Minerals LLC	BRC Working Interest Company	1/8	0369/0300
BRC Working Interest Company	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>Will E. Morris Trust Lease</u>			
Will E. Morris Trust	Antero Resources Corporation	1/8+	0030/0678
<u>Kathy Marie Smith Lease</u>			
Kathy Marie Smith	Antero Resources Corporation	1/8	0028/0103

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WV Department of
Environmental Protection

*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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Haught Family Trust Lease</u>			
Haught Family Trust	Montani Energy LLC	1/8+	0392/0069
Montani Energy LLC	Antero Resources Appalachian Corporation	Assignment	0396/0759
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Karen J. Wolfe Lease</u>			
Karen J. Wolfe	Antero Resources Corporation	1/8+	0584/0043
<u>Richard A. Fonner Lease</u>			
Richard A. Fonner	Statoil USA Onshore Properties	1/8+	0492/0701
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0022/0144
<u>Helen M. Karcinski et al Lease</u>			
Helen M. Karcinski et al	Antero Resources Corporation	1/8+	0606/0347
<u>BRC Appalachian Minerals LLC Lease (TM 10 PCL 9)</u>			
BRC Appalachian Minerals LLC	BRC Working Interest Company	1/8	0369/0300
BRC Working Interest Company	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<u>B&C Oil & Gas Company Lease</u>			
B&C Oil & Gas Company	Antero Resources Corporation	1/8+	0529/0462
<u>B&C Oil & Gas Company Lease</u>			
B&C Oil & Gas Company	Antero Resources Corporation	1/8+	0529/0462

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Office of Oil and Gas

AUG 10 2020

WV Department of
Environmental Protection

WW-6A1
(5/13)

Operator's Well No. Seagrave Unit 1H

**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
<u>Rose Enterprises LLC Lease</u>	Rose Enterprises LLC	Antero Resources Corporation	1/8+	0599/0765

*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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Office of Oil and Gas

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WV Department of
Environmental Protection

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