



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, June 25, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for CLIPPER UNIT 2H
47-017-06888-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

A blue ink signature of James A. Martin, Chief, is written over the text. The signature is stylized and appears to read "Jim Martin".

Operator's Well Number: CLIPPER UNIT 2H
Farm Name: GEORGE S. WYCKOFF
U.S. WELL NUMBER: 47-017-06888-00-00
Horizontal 6A New Drill
Date Issued: 6/25/2019

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:

4701706888

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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

1) Well Operator: Antero Resources Corporation 494507062 017 - Dodd West Uni Smithburg 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Clipper Unit 2H Well Pad Name: George Scott Pad

3) Farm Name/Surface Owner: George S. Wyckoff Public Road Access: Smithton Rd (Old US-50)

4) Elevation, current ground: 1283' Elevation, proposed post-construction: _____

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- 2950#

8) Proposed Total Vertical Depth: 7500' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22400' MD

11) Proposed Horizontal Leg Length: 11726'

12) Approximate Fresh Water Strata Depths: 128', 328', 433'

13) Method to Determine Fresh Water Depths: Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 596', 1504', 1750'

15) Approximate Coal Seam Depths: 450'

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: _____

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PAC
5/2/19

4701706888

WW-6B
(04/15)

API NO. 47-017
OPERATOR WELL NO. Clipper Unit 2H
Well Pad Name: George Scott 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/H-40	54.5#/48#	485' *see #19	485' *see #19	CTS, 674 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	22400'	22400'	5752 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"/0.33"	2730/1730	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"	0.361"	12,630	2500	Lead-VPOZ & Tel - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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DAF
5/21/19

WW-6B
(10/14)

API NO. 47- 017 - _____
OPERATOR WELL NO. Clipper Unit 2H
Well Pad Name: George Scott 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.

*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): 31.57 Acres

22) Area to be disturbed for well pad only, less access road (acres): 6.05 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

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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.

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*Note: Attach additional sheets as needed.

DAF
5/21/19

UWI (API/Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Productive Formation(s) not perf'd
4701704410000	JONES, ELEE HEIRS ETAL MRS	2	KEY OIL COMPANY	KEY OIL COMPANY	5,086	2942 - 4942	Warren, Speechley, Balltown, Riley, Benson, Alexander	Well, Big Injun
4701702937000	STATLER JOHN A	J-135	GREYLOCK CONVENT LLC	J & J ENTERPRISES	5,413	3313 - 5274	Warren, Riley, Benson, Alexander	Well, Big Injun

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4701706888

WW-9
(4/16)

4701706888

API Number 47 - 017 -
Operator's Well No. Clipper Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494507062

Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle Smithburg 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34)
- Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34)
- Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
- Other (Explain Northwestern Landfill Permit #SWF-1025/)

Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Surface - Air/Freshwater, Intermediate - Dust/Sluff Foam, Production - Water Based Mud or Synthetic Based Mud

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Please See Attachment

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Gretchen Kohler
Company Official (Typed Name) Gretchen Kohler
Company Official Title Senior Environmental & Regulatory Manager

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Subscribed and sworn before me this 10 day of May, 2019

[Signature]

Notary Public

My commission expires 3/29/2022

[Signature]
5/21/19

WV Department of Environmental Protection
KARIN COX
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20184014160
MY COMMISSION EXPIRES MARCH 29, 2022

Antero Resources Corporation

Proposed Revegetation Treatment: Acres Disturbed 31.57 Acres Prevegetation pH _____

Lime 2-4 Tons/acre or to correct to pH 6.5

Fertilizer type Hay or straw or Wood Fiber (will be used where needed)

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Access Road "B" 3500' (12.93 acres) + Access Road "C" 247' (0.92 acres) + Access Road "D" 169' (0.61 acres) + Well Pad (6.05 acres) + Excess/Topsoil Material Stockpiles (11.06 acres) = 31.57 Acres

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See table IV-3 for additional seed type (George Scott Final Design Page 43)		See table IV-4A for additional seed type (George Scott Final Design Page 43)	
*or type of grass seed requested by surface owner		*or type of grass seed requested by surface owner	

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

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Title: Oil + Gas Inspector Date: 5/21/19

Field Reviewed? Yes No

Form WW-9 Additives Attachment**SURFACE INTERVAL**

1. Fresh Water
2. Soap –Foamer AC
3. Air

INTERMEDIATE INTERVAL***STIFF FOAM RECIPE:***

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

PRODUCTION INTERVAL

1. Alpha 1655
Salt Inhibitor
2. Mil-Carb
Calcium Carbonate
3. Cottonseed Hulls
Cellulose-Cottonseed Pellets – LCM
4. Mil-Seal
Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM
5. Clay-Trol
Amine Acid Complex – Shale Stabilizer
6. Xan-Plex
Viscosifier For Water Based Muds
7. Mil-Pac (All Grades)
Sodium Carboxymethylcellulose – Filtration Control Agent
8. New Drill
Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer
9. Caustic Soda
Sodium Hydroxide – Alkalinity Control
10. Mil-Lime
Calcium Hydroxide – Lime
11. LD-9
Polyether Polyol – Drilling Fluid Defoamer
12. Mil Mica
Hydro-Biotite Mica – LCM

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13. Escaid 110
Drilling Fluid Solvent – Aliphatic Hydrocarbon
14. Ligco
Highly Oxidized Leonardite – Filtration Control Agent
15. Super Sweep
Polypropylene – Hole Cleaning Agent
16. Sulfatrol K
Drilling Fluid Additive – Sulfonated Asphalt Residuum
17. Sodium Chloride, Anhydrous
Inorganic Salt
18. D-D
Drilling Detergent – Surfactant
19. Terra-Rate
Organic Surfactant Blend
20. W.O. Defoam
Alcohol-Based Defoamer
21. Perma-Lose HT
Fluid Loss Reducer For Water-Based Muds
22. Xan-Plex D
Polysaccharide Polymer – Drilling Fluid Viscosifier
23. Walnut Shells
Ground Cellulosic Material – Ground Walnut Shells – LCM
24. Mil-Graphite
Natural Graphite – LCM
25. Mil Bar
Barite – Weighting Agent
26. X-Cide 102
Biocide
27. Soda Ash
Sodium Carbonate – Alkalinity Control Agent
28. Clay Trol
Amine Acid complex – Shale Stabilizer
29. Sulfatrol
Sulfonated Asphalt – Shale Control Additive
30. Xanvis
Viscosifier For Water-Based Muds
31. Milstarch
Starch – Fluid Loss Reducer For Water Based Muds
32. Mil-Lube
Drilling Fluid Lubricant

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911 Address
1995 Smithton Road
West Union, WV 26456

Well Site Safety Plan

Antero Resources

Well Name: Clipper Unit 1H-2H, Cortina Unit 1H-3H,
 Lakota Unit 1H-2H, Laser Unit 2H-4H

Pad Location: GEORGE SCOTT PAD
 Doddridge County/West Union District

GPS Coordinates:

Entrance - Lat 39°17'50.7258"/Long -80°44'38.6556" (NAD83)
Pad Center - Lat 39°18'27.7266"/Long -80°43'59.7144" (NAD83)

Driving Directions:

From Clarksburg: Drive west on US-50 W for approximately 22 miles. Turn left onto CO Rte 50/22, go 0.2 miles. Turn right onto Smithton Rd, go 1.3 miles. Access road will be on the right. Once on the access road, continue on past the Peggy June pad to the George Scott Pad.

Alternate Route:

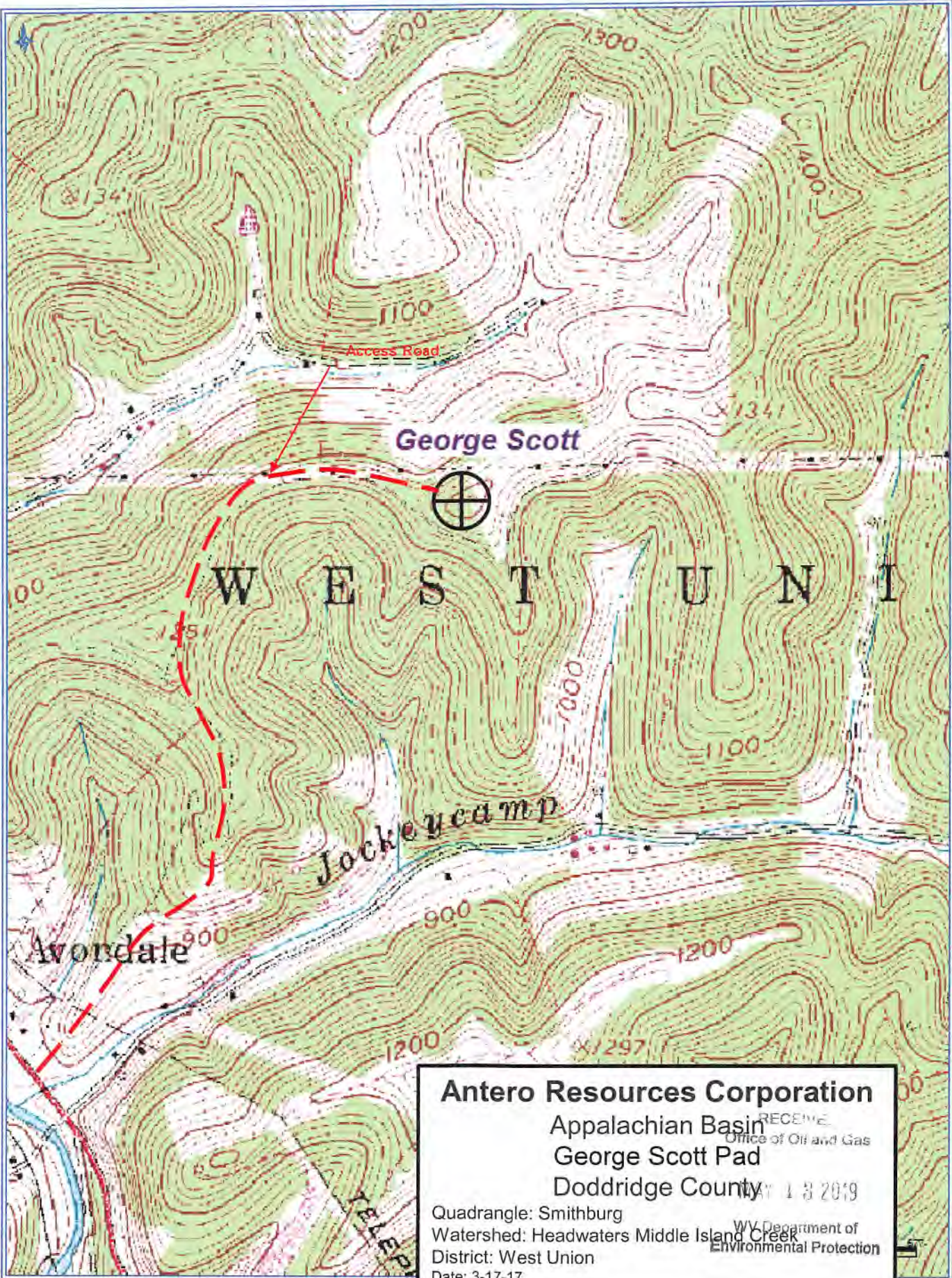
From Parkersburg: Drive on US-50 E for 46.3 miles. Turn left onto WV-18 N, go 0.6 miles. Turn right onto Davis St/Smithton Rd, go 2.0 miles. Access road will be on the left. Once on the access road, continue on past the Peggy June pad to the George Scott Pad.

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EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

Julia
 5/21/19



Antero Resources Corporation
 Appalachian Basin
 George Scott Pad
 Doddridge County

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Quadrangle: Smithburg
 Watershed: Headwaters Middle Island Creek
 District: West Union
 Date: 3-17-17

LATITUDE 39°20'00"

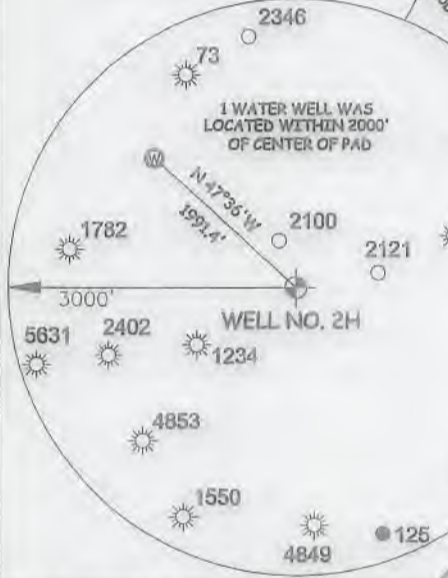
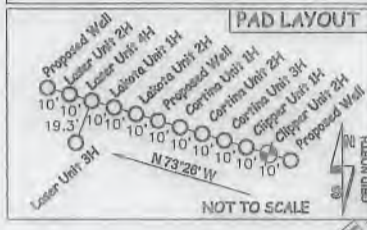
7,050'

LATITUDE 39°17'30" 818' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Clipper Unit 2H

NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 296,509ft E: 1,651,042ft
LAT: 39°16'27.06" LON: 80°43'59.69"
BOTTOM HOLE INFORMATION:
N: 285,989ft E: 1,657,133ft
LAT: 39°16'43.90" LON: 80°42'40.40"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 4,350,946m E: 523,013m
BOTTOM HOLE INFORMATION:
N: 4,347,772m E: 524,922m



West Union District - Doddridge County	
08-36	Paul Smith
08-36.1	George Wyckoff
08-51	Robert Holland
08-52	John Smith
12-12	John Smith
12-13	Steven Plapp
12-13.1	George Wyckoff
12-14	Glad Johnson
12-21	Betty Stephenson
12-22	Norma Jean Hefflin
12-22.1	Leonce Label
12-29	Spencer Enterp. LLC
12-60.1	Betty Stephenson
12-61	Leonce Label
12-61.1	Leonce Label
12-62	Ralph Main
12-68	Spencer Enterp. LLC
12-69	Eric Britton
12-69.1	Joseph Bunting
12-70	Donald Datsan
12-75	Ryan Carver
12-76	Ryan Carver
12-77	Mark Phillips
12-77.1	Ryan Carver
12-77.2	Christopher Harris
12-78	Robert Long
12-79	Big "D" Enterp. LLC
12-79.1	Gerald Chedester
12-79.2	Spencer Enterp. LLC
12-80	Big "D" Enterp. LLC
12-80.1	Spencer Enterp. LLC
12-81	Spencer Enterp. LLC
12-82	Spencer Enterp. LLC
12-82.1	Spencer Enterp. LLC
12-83	Charles Gillespie
12-84	David Moore
12-84.1	Doddridge Co. Commission
12-85	Ratris Realty LLC
12-85.1	Jimmie Nicholson
12-85.2	Michael Keppinger
12-86	Archold Cemetery
12-87	Danny McCombs
12-87.1	Smithburg U.M. Church
12-88	Derrick Nicholson
12-89	Richard Oylar
12-90	Richard Oylar
12-91	Todd McConnell
12-92	Four Leaf Land Comp.
12-92.1	Karen McKinney
12-92.2	Howard Spurlock
12-92.3	Howard Spurlock
12-93	Sperry Hardwoods
12-97	Spencer Enterp. LLC
12-100	Ratris Realty LLC
12-102	WV Railroad Maintenance Auth.
12-104	Howard Spurlock
12-105	Four Leaf Land Comp.
13-14	Big "D" Enterp. LLC

West Union District - Doddridge County	
13-14.2	Lucien Sommons
13-14.4	Lucien Sommons
13-14.7	David Mitchell
13-16	Big "D" Enterp. LLC
13-16.1	John Strickling
13-16.3	Hall Drilling LLC
13-18	Frank Race
16-05	Ruby Ballenger
16-06	Ruby Ballenger
16-15	Markest Liberty Midstream & Res. LLC
16-15.1	Lawrence Goskins
16-15.2	Markest Liberty Midstream & Res. LLC
17-02	Ruby Ballenger
17-2.1	Ruby Ballenger
17-03	Helen Jones

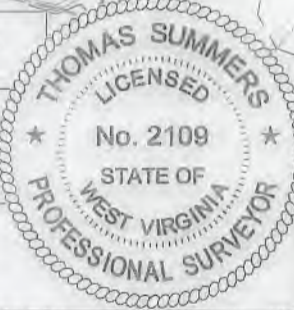
New Milton District - Doddridge County	
1-03	Elwood Hill
1-04	Elwood Hill
1-08	Ralph Lacy
1-10	Donald Barnes
2-01	Ronald Law
2-02	Robert Bland

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



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 14,274,014ft E: 1,715,872ft
POINT OF ENTRY INFORMATION:
N: 14,274,712ft E: 1,718,403ft
BOTTOM HOLE INFORMATION:
N: 14,263,600ft E: 1,722,136ft

JOB # 18-035WA
DRAWING # CLIPPER2HR2sh
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

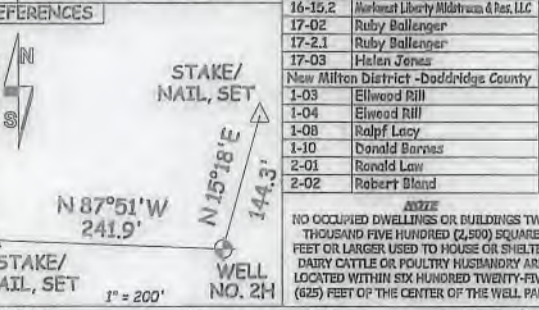
LEGEND

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

THOMAS SUMMERS P.S. 2109

DATE 05/09/19

OPERATOR'S WELL# CLIPPER UNIT #2H



WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 017 - 0688

(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW STATE COUNTY PERMIT

LOCATION: ELEVATION 1,283' AS-BUILT WATERSHED HEADWATERS MIDDLE ISLAND CREEK

QUADRANGLE SMITHBURG 7.5' DISTRICT WEST UNION COUNTY DODDRIDGE

SURFACE OWNER GEORGE S. WYCKOFF ACREAGE 70.58 ACRES +/-

OIL & GAS ROYALTY OWNER V. B. CHAPMAN ET UX; JOHNSON B. SMITH ET UX; FANNIE A. COULEHAN; B. F. HEFLIN JR. ET UX; LEASE ACREAGE 156 AC.; 180 AC.; 234.94 AC.; 82 AC.; E. C. JONES ET AL; MONTA MCCONNELL ET AL; MARY F. JONES; THOMAS JOSEPH MCCONNELL; WVDNR; 300 AC.; 91 AC.; 194 AC.; 24.45 AC.; 8.9 AC.; WVSRA; FRANK W. RACE ET UX; RONALD C. STUTLER; JOHN A. STATLER ET UX 301.19 AC.; 25.56 AC.; 7.60 AC.; 48 AC.±

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___ PLUG & ABANDON ___ CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,500' TVD 22,400' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM

ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD

FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

4,664' TO BOTTOM HOLE

9,403'

LONGITUDE 80°42'30"

LONGITUDE 80°42'30"

COUNTY NAME PERMIT

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>V. B. Chapman et ux Lease</u>			
V.B. Chapman, et ux	J.L. Mann	1/8	0020/0162
J.L. Mann	W.S. Hoskins, Trustee for Rock Run Oil and Gas Company	Assignment	0024/0003
W.S. Hoskins, Trustee for Rock Run Oil and Gas Company	Columbian Carbon Company	Assignment	0027/0470
Columbian Carbon Company	Columbian Fuel Corporation	Assignment	0079/0202
Columbian Fuel Corporation	Cities Service Oil Company	Merged	0153/0742
Cities Service Oil Company	Cities Service Company	Conveyed	0103/0328
Cities Service Company	Cities Service Oil and Gas Corporation	Assignment	0132/0177
Cities Service Oil and Gas Corporation	OXY USA Inc.	Name Change	0205/0614
OXY USA Inc.	Ashland Exploration, Inc.	Assignment	0160/0679
Ashland Exploration, Inc.	Ashland Exploration Holdings, Inc.	Name Change	Exhibit 2
Ashland Exploration Holdings, Inc.	Blazer Energy Corp.	Assignment	0181/0421
Blazer Energy Corp.	Eastern States Oil & Gas, Inc.	Name Change	0244/0154
Eastern States Oil & Gas, Inc.	Equitable Production-Eastern States, Inc.	Name Change	Exhibit 3
Equitable Production-Eastern States, Inc.	Equitable Production Company	Merged	0281/0346
Equitable Production Company	EQT Production Company	Name Change	0281/0346
EQT Production Company	Antero Resources Corporation	Assignment	0325/0539
<u>Johnson B. Smith et ux Lease</u>			
Johnson B. Smith et ux	Eastern Oil Company	1/8	0022/0231
Eastern Oil Company	A. W. Stevenson	Assignment	0042/0328
A. W. Stevenson	Eastern Union Gas Company	Assignment	0042/0330
Eastern Union Gas Company	Pittsburgh and West Virginia Gas Company	Assignment	0085/0334
Pittsburgh and West Virginia Gas Company	Equitable Gas Company	Assignment	0121/0257
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	EQT Capital Corporation	Name Change	Exhibit 4
EQT Capital Corporation	Antero Resources Corporation	Assignment	0325/0528
<u>Fannie A. Coulehan Lease</u>			
Fannie A. Coulehan	West Virginia Gas Company	1/8	0018/0297
West Virginia Gas Company	Eastern Oil Company	Assignment	0018/0299
Eastern Oil Company	A.W. Stevenson	Assignment	0042/0328
A.W. Stevenson	Eastern Union Gas Company	Assignment	0042/0328
Eastern Union Gas Company	Pittsburgh & W.VA Gas Company	Assignment	0085/0334
Pittsburgh & W.VA Gas Company	Equitable Gas Company	Assignment	0121/0257
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	Equitrans, L.P.	Name Change	0302/0123
Equitrans, L.P.	Equitable Production- Eastern States, Inc.	Assignment	0192/0019
Equitable Production- Eastern States, Inc.	EQT Production Co.	Name Change	0281/0346
EQT Production Co.	Antero Resources Corporation	Assignment	0325/0539

*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)

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- (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>B.F. Heflin, Jr. et ux Lease</u>			
B.F. Heflin, Jr. et ux	Joseph Freeman & D.P Stout	1/8	0017/0224
Joseph Freeman & D.P. Stout	South Penn Oil Company	Assignment	Unrecorded
South Penn Oil Company	Hope Natural Gas Company	Assignment	0026/0159
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0051/0795
CNG Transmission Corporation	Doninion Transmission Inc	Name Change	0058/0362
Doninion Transmission Inc	CNX Gas Company LLC	Merged	0293/0252
CNX Gas Company LLC	Noble Energy Inc	Assignment	0260/0369
Noble Energy Inc	Antero Resources Corporation	Assignment	0317/0379
<u>E.C Jones, et al Lease</u>			
E.C. Jones, et al	N.S. Snyder	1/8	0018/0492
N.S. Snyder	Carnegie Natural Gas Company	Assignment	0092/0715
Carnegie Natural Gas Company	Carnegie Production Company	Assignment	0186/0061
Carnegie Production Company	EQT Production Company	Name Change	Exhibit 5
EQT Production Company	Antero Resources Corporation	Assignment	0325/0539
<u>Monta McConnell, et al Lease</u>			
Monta McConnell, et al	E. D. Tate	1/8	0054/0364
E.D. Tate	P. Douglas Farr	Assignment	0094/0128
P. Douglas Farr	Carolyn Farr	Will	0015/0347
Carolyn Farr	Antero Resources Appalachian Corporation	Assignment	0271/0541
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Mary F. Jones Lease</u>			
Mary F. Jones	E. D. Tate	1/8	0053/0404
E.D. Tate	P. Douglas Farr	Assignment	0094/0128
P. Douglas Farr	Carolyn Farr	Will	0015/0347
Carolyn Farr	Antero Resources Appalachian Corporation	Assignment	0271/0541
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>WVDNR Lease (Middle Island Creek)</u>			
WVDNR	Antero Resources	1/8+	0483/0188
<u>Thomas Joseph McConnell Lease</u>			
Thomas Joseph McConnell	Antero Resources Corporation	1/8	0205/0381

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Office of Oil and Gas
MAY 13 2019
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.

CONTINUED ON NEXT PAGE

WW-6A1

Operator's Well Number Clipper Unit 2H

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)

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>WVSRA Lease</u>			
WVSRA	Antero Resources Appalachian Corporation	1/8+	0253/0409
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Frank W. Race, et ux Lease</u>			
Frank W. Race, et ux	Antero Resources Corporation	1/8+	0441/0270
<u>Ronald G. Stutler Lease</u>			
Ronald G Stutler	Antero Resources Corporation	1/8+	0428/0526

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MAY 13 2019

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.

WW-6A1
(5/13)

Operator's Well No. Clipper Unit 2H

**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)**

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- (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>John A. Statler et ux Lease</u>	John A. Statler et ux	Petroleum Services Co.	1/8	0105/0611
	Petroleum Services Co.	Justin L. Henderson	Assignment	0107/0237
	Justin L. Henderson	J & J Enterprises, Inc.	Assignment	0111/0265
	J & J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	0159/0139
	Eastern American Energy Corporation	Energy Corporation of America	Assignment	0240/0498
	Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	0308/0227
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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**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: Diana Hoff

Its: Vice President - Operations

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MAY 13 2019

WV Department of
Environmental Protection

Page 1 of _____

FORM WW-6A1
EXHIBIT 1

FILED

JUN 10 2013

Natalie E. Tennant
Secretary of State
1900 Kanawha Blvd E
Bldg 1, Suite 157-K
Charleston, WV 25305



IN THE OFFICE OF THE SECRETARY OF STATE

Penney Barker, Manager
Corporations Division
Tel: (304)558-8000
Fax: (304)558-8381
Website: www.wvsos.com
E-mail: business@wvsos.com

APPLICATION FOR
AMENDED CERTIFICATE
OF AUTHORITY

Office Hours: Monday - Friday
8:30 a.m. - 5:00 p.m. ET

FILE ONE ORIGINAL
(Two if you want a filed
stamped copy returned to you)
FEE: \$25.00

**** In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby
applies for an Amended Certificate of Authority and submits the following statement:

- Name under which the corporation was authorized to transact business in WV: Antero Resources Appalachian Corporation
- Date Certificate of Authority was issued in West Virginia: 6/25/2008
- Corporate name has been changed to: Antero Resources Corporation
(Attach one Certified Copy of Name Change as filed in home State of Incorporation.)
- Name the corporation elects to use in WV: Antero Resources Corporation
(due to home state name not being available)
- Other amendments: _____
(attach additional pages if necessary)
- Name and phone number of contact person. (This is optional, however, if there is a problem with the filing, listing a contact person and phone number may avoid having to return or reject the document.)
Alvyn A. Schopp (303) 367-7310
Contact Name Phone Number
- Signature information (See below *Important Legal Notice Regarding Signature*):
Print Name of Signer: Alvyn A. Schopp Title/Capacity: Authorized Person
Signature: [Handwritten Signature] Date: June 10, 2013

Important Legal Notice Regarding Signature For West Virginia Code §31D-1-129. Penalty for signing false document. Any person who signs a document he or she knows is false in any material respect and knows that the document is to be delivered to the secretary of state for filing is guilty of a misdemeanor and, upon conviction thereof, shall be fined not more than one thousand dollars or confined in the county or regional jail not more than one year, or both.

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Office of Oil and Gas

MAY 13 2013
Revised 4/13
WV Department of
Environmental Protection



*J. Ken Flechler, Secretary of State of the
State of West Virginia, hereby certify that*

originals of an application by

ASHLAND EXPLORATION, INC.

for an amended certificate of authority to transact business in West Virginia are
filed in my office, as required by the provisions of Chapter 31, Article 1, Sections
57 and 59 of the West Virginia Code and conform to law. Therefore, I issue this

AMENDED CERTIFICATE OF AUTHORITY

to transact business in West Virginia under the name of

ASHLAND EXPLORATION HOLDINGS, INC.

and I attach to this certificate a duplicate original of the application.

*Given under my hand and the
Great Seal of the State of
West Virginia, on this*

SEPTENNTH day of
SEPTEMBER 19 06



Ken Flechler

Secretary of State

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Office of Oil and Gas

MAY 13 2010

WV Department of
Environmental Protection

State of West Virginia



Certificate

I, Ken Hechler, Secretary of State of the State of West Virginia, hereby certify that

originals of the Application for Amended Certificate of Authority of
EASTERN STATES OIL & GAS, INC.

are filed in my office, signed and verified, as required by the provisions of West Virginia Code §§31-1-57 and 59 and conform to law. Therefore, I issue this

CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF AUTHORITY

changing the name of the corporation to

EQUITABLE PRODUCTION - EASTERN STATES, INC.

and I attach to this certificate a duplicate original of the Application for Amended Certificate of Authority.



*Given under my hand and the
Great Seal of the State of
West Virginia on this day of
June 16, 2000*

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Office of Oil and Gas
Ken Hechler
MAY 13 2019
WV Department of
Environmental Protection
Secretary of State

FORM WV-6A1
EXHIBIT 4, Page 1

BOOK 512 PAGE 781

ARTICLES OF MERGER
OF
KENTUCKY WEST VIRGINIA GAS COMPANY

a West Virginia Company

Into

EQT CAPITAL CORPORATION

a Delaware Company

FILED
NOV 20 1995
IN THE OFFICE OF
SECRETARY OF STATE
WEST VIRGINIA

Pursuant to the provisions of Section 38, Article 1, Chapter 31 of the Code of West Virginia, 1931, as amended, the undersigned corporation adopts the following Articles of Merger for the purpose of merging a subsidiary corporation into the undersigned as the surviving corporation:

The undersigned foreign corporation is incorporated under the laws of Delaware and the laws of such jurisdiction permit such a merger.

The following Plan of Merger was adopted by the undersigned corporation in the manner prescribed by the laws of the jurisdiction under which it is organized.

This Plan of Merger dated as of November 20, 1995, is among EQT Capital Corporation ("EQT"), a Delaware corporation, Equitrans, Inc. ("Equitrans"), a Delaware corporation and Kentucky West Virginia Gas Company ("Kentucky West"), a West Virginia corporation. The terms of the merger shall be as follows:

1. Equitrans and Kentucky West shall merge into EQT. EQT shall be the surviving corporation with its corporate identity, existence, purposes, powers, franchises, rights and immunities unimpaired.
2. The issued and outstanding shares of common stock of Equitrans and Kentucky West, shall without further action on the part of Equitrans, Kentucky West or EQT, be cancelled and of no further effect as of the Effective Date of the merger (as defined below).
3. A Certificate of Merger shall be filed as required by law with the Secretary of State of the State of West Virginia and the Secretary of State of the State of Delaware. The Effective Date of the merger shall be the last date of filing with the respective secretaries of state (the "Effective Date"). On the Effective Date, Equitrans and Kentucky West will cease to exist as separate corporations and EQT will succeed to all of the assets, rights, privileges, immunities, powers, duties and liabilities of Equitrans and Kentucky West in accordance with the provisions of the West Virginia Corporation Act and of the Delaware General Corporation Law.
4. The current Certificate of Incorporation of EQT shall be its Certificate of Incorporation on and after the Effective Date of the merger.

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Office of Oil and Gas

MAY 13 2019

WV Department of
Environmental Protection

FORM WW-6A1
EXHIBIT 4, Page 2

BOOK 512 PAGE 782

5. This Plan of Merger shall be executed by the corporate officers of Kentucky West, Equitrans and EQT.

The number of outstanding shares of each class of the subsidiary corporation and the number of such shares of each class owned by the surviving corporation are as follows:

Name of Subsidiary	Number of Shares Outstanding	Designation of Class	Number of Shares Owned by Surviving Corporation
Kentucky West Virginia Gas	331,754	Common	331,754

A copy of the Plan of Merger set forth above was mailed on September 1, 1995 to each Shareholder of the subsidiary corporation.

The undersigned corporation hereby: (a) agrees that it may be served with process in the State of West Virginia in any proceeding for the enforcement of the rights of a dissenting shareholder of the above-mentioned subsidiary corporation against the surviving corporation; (b) irrevocably appoints the Secretary of State of the State of West Virginia as its agent to accept service of process in any such proceeding; and (c) agrees that it will promptly pay to the dissenting shareholders of such domestic corporation the amount, if any, to which they shall be entitled under Section 123, Articles 1, Chapter 31 of the Code of West Virginia with respect to the rights of dissenting shareholders.

Dated November 20, 1995.

EQT CAPITAL CORPORATION

By *A. Michael Abramov*
Its President

and *Gregory C. Walker*
Its Corporate Secretary

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Office of Oil and Gas

MAY 13 2019

WV Department of
Environmental Protection

4701706888



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

May 10, 2019

West Virginia Department of Environmental Protection
Chief, Office of Oil and Gas
Attn: Mr. James Martin
601 57th Street SE
Charleston, WV 25304

RE: Clipper Unit 2H
Quadrangle: Smithburg 7.5'
Doddridge County/West Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Clipper Unit 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Clipper Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Brett Kuhn
Senior Landman

A handwritten signature in blue ink, appearing to read "Brett Kuhn", is written over the typed name and title.

RECEIVED
Office of Oil and Gas

MAY 13 2019

WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 05/09/2019

API No. 47- 017 -

Operator's Well No. Clipper Unit 1H

Well Pad Name: George Scott Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>523013m</u>
County:	<u>Doddridge</u>		Northing:	<u>4350946m</u>
District:	<u>West Union</u>	Public Road Access:	<u>Smithton Rd (Old US-50)</u>	
Quadrangle:	<u>Smithburg 7.5'</u>	Generally used farm name:	<u>George S. Wyckoff</u>	
Watershed:	<u>Headwaters Middle Island Creek</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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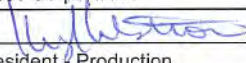
Required Attachments:

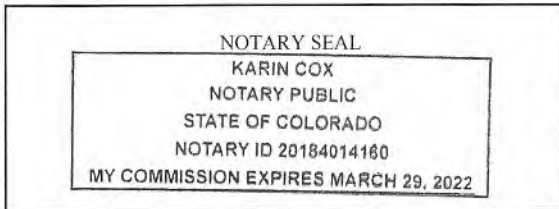
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

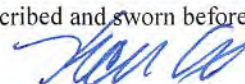
RECEIVED
Office of Oil and Gas
MAY 10 2019
West Virginia Department of
Environmental Protection

Certification of Notice is hereby given:

THEREFORE, I Kevin Kilstrom, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	<u>Antero Resources Corporation</u>	Address:	<u>1615 Wynkoop Street</u>
By:	<u>Kevin Kilstrom</u> 		<u>Denver, CO 80202</u>
Its:	<u>Senior Vice President - Production</u>	Facsimile:	<u>303-357-7315</u>
Telephone:	<u>303-357-7310</u>	Email:	<u>kcox@anteroresources.com</u>



Subscribed and sworn before me this 9 day of May 2019.
 Notary Public

My Commission Expires 3/29/2022

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

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WV Department of
Environmental Protection

WW-6A
(9-13)

4701706888
API NO. 47- 017 -
OPERATOR WELL NO. Clipper Unit 2H
Well Pad Name: George Scott Pad

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 5/10/2019 Date Permit Application Filed: 5/10/2019

Notice of:

- [X] PERMIT FOR ANY WELL WORK [] CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- [] PERSONAL SERVICE [] REGISTERED MAIL [X] METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

[X] Application Notice [X] WSSP Notice [X] E&S Plan Notice [X] Well Plat Notice is hereby provided to:

[X] SURFACE OWNER(s)
Name: PLEASE SEE ATTACHMENT
Address: _____

Name: _____
Address: _____

[X] SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: PLEASE SEE ATTACHMENT
Address: _____

Name: _____
Address: _____

[] SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

[] COAL OWNER OR LESSEE
Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: _____

[] COAL OPERATOR
Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: _____

[] WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE
Name: NONE IDENTIFIED WITHIN 1500'
Address: _____
*Please note there is 1 water source, but it is located greater than 1500' from the subject pad location

[] OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

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MAY 13 2019

*Please attach additional forms if necessary

WV Department of Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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MAY 13 2019

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

WV Department of
Environmental Protection

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47-017-4701706888
OPERATOR WELL NO. Clipper Unit 2H
Well Pad Name: George Scott Pad

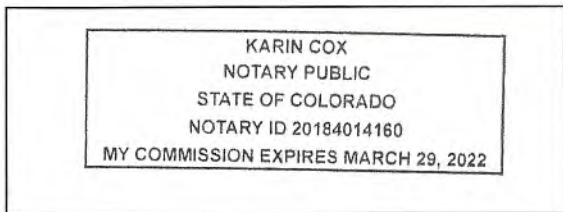
Notice is hereby given by:

Well Operator: Antero Resources Corporation
Telephone: (303) 357-7310
Email: kcox@anteroresources.com

Address: 1615 Wynkoop Street
Denver, CO 80202
Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Subscribed and sworn before me this 10 day of May, 2019.

[Signature] Notary Public

My Commission Expires 3/29/2022

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MAY 13 2019

WV Department of
Environmental Protection

WW-6A Notice of Application Attachment (GEORGE SCOTT PAD):**List of Surface Owner(s) with Proposed Disturbance associated with George Scott Well Pad:**

WELL PAD – These owners were notified of all well work permit applications and have executed signed Surface Use Agreements with Antero Resources Corporation.

TM 12 PCL 12, TM 8 PCL 52

Owner: John S. & Peggy J. Smith
Address: 142 N. 6th St.
 Paden City, WV 26159

TM 8 PCL 36

Owner: Paul Amos Smith
Address: 140 Belvue Dr.
 Los Gatos, CA 95032

TM 12 PCL 13.1, TM 8 PCL 36.1

Owner: George S. & Susan R. Wyckoff
Address: PO Box 102
 Smithburg, WV 26436

ROAD AND/OR OTHER DISTURBANCE – These owners has executed a signed Agreement with Antero Resources Corporation. However, they were only notified if their tract is overlying the oil and gas leasehold being developed by the proposed well work as outlined in WV Code 22-6A-10(b)(2).

TM 12 PCL 11

Owner: John S. & Peggy J. Smith
Address: 142 N. 6th St.
 Paden City, WV 26159

TM 12 PCL 17 (OFF LEASE)

Owner: George M. & Sandra A. Wyckoff
Address: 191 Jockey Camp Rd.
 West Union, WV 26436

TM 12 PCL 14

Owner: Chad W. Johnson
Address: 109 Platinum Drive, Suite 1
 Bridgeport, WV 26330

TM 8 PCL 51

Owner: Robert L. Holland
Address: 225 Watchung Fork
 Westfield, NJ 07090

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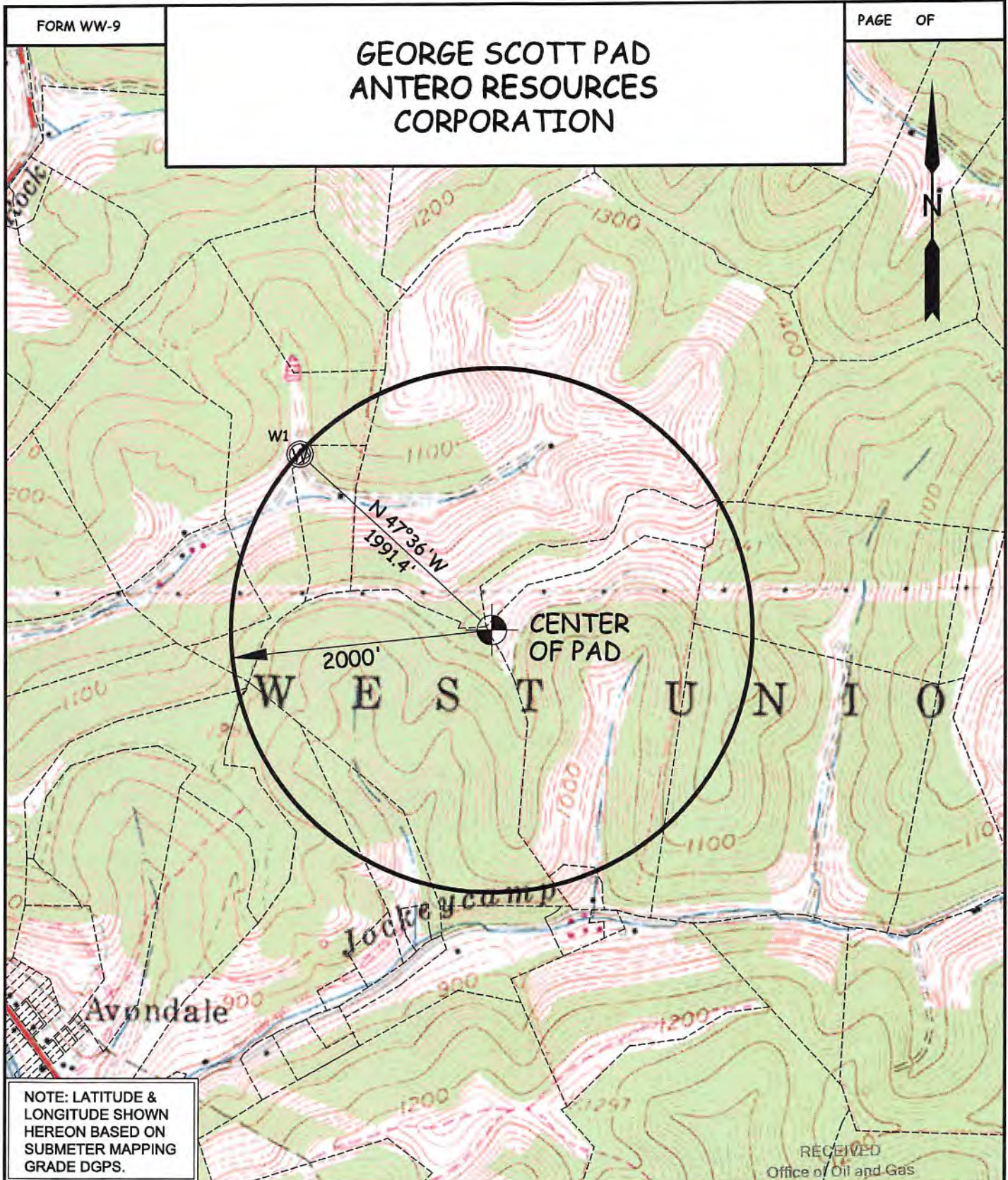
MAY 13 2019

WV Department of
 Environmental Protection

FORM WW-9

PAGE OF

**GEORGE SCOTT PAD
ANTERO RESOURCES
CORPORATION**



NOTE: LATITUDE & LONGITUDE SHOWN HEREON BASED ON SUBMETER MAPPING GRADE DGPS.

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WELL	SURFACE OWNER	ADDRESS	TAX MAP-PARCEL	WELL LATITUDE	WELL LONGITUDE
W1	MICHAEL O'BRIEN	487 OBRIEN HOLLOW WEST UNION, WV 26456	8-35	39° 18' 40.07"	80° 44' 19.27"
WILLOW LAND SURVEYING, PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717		TOPO SECTION(S) OF : SMITHBURG 7.5' QUAD. JOB #: 17-025WA		SCALE : 1-INCH = 1000-FEET 0' 1000' 2000' 3000'	
DATE: 03/21/17	DRAWN BY: T.B.S.		FILE: GEORGESCOTTWATERMAP		

MAY 18 2015
WV Department of Environmental Protection

WW-6A4
(1/12)

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 07/23/2018 **Date Permit Application Filed:** 05/10/2019

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: PLEASE SEE ATTACHMENT
Address: _____

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>523013m</u>
County: <u>Doddridge</u>	Northing: <u>4350946m</u>
District: <u>West Union</u>	Public Road Access: <u>Smithton Rd (Old US-50)</u>
Quadrangle: <u>Smithburg 7.5'</u>	Generally used farm name: <u>George S. Wyckoff</u>
Watershed: <u>Headwaters Middle Island Creek</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Antero Resources Appalachian Corporation
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7310
Email: kcox@anteroresources.com
Facsimile: 303-357-7315

Authorized Representative: Karin Cox
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7310
Email: kcox@anteroresources.com
Facsimile: 303-357-7315

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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

TM 8 PCL 36
TM 8 PCL 36.1
TM 8 PCL 52
TM 12 PCL 12
TM 12 PCL 13.1

WW-6A4 Notice of Intent to Drill Attachment:

4701706888

Surface Owners:

Tax Parcel ID: 8-8-36

Owner: Paul Amos Smith
Address: 140 Belvue Dr
Los Gatos, CA 95032

Tax Parcel ID: 8-8-36.1; 8-12-13.1

Owner: George and Susan Wyckoff
Address: PO Box 102
Smithburg, WV 26436

Tax Parcel ID: 8-8-52; 8-12-12

Owner: John Samuel Smith & Peggy June Smith
Address: 142 N. 6th St.
Paden City, WV 26159

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WV Department of
Environmental Protection

WW-6A5
(1/12)

4701706888
Operator Well No. Clipper Unit 2H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 05/10/2019 **Date Permit Application Filed:** 05/10/2019

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: PLEASE SEE ATTACHMENT Name: _____
Address: _____ Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>523013m</u>
County: <u>Doddridge</u>	Northing: <u>4350946m</u>
District: <u>West Union</u>	Public Road Access: <u>Smithton Rd (Old US-50)</u>
Quadrangle: <u>Smithburg 7.5'</u>	Generally used farm name: <u>George S. Wyckoff</u>
Watershed: <u>Headwaters Middle Island Creek</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street
Telephone: (303) 357-7310 Denver, CO 80202
Email: kcox@anteroresources.com Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas

MAY 13 2019

WV Department of
Environmental Protection

**WW-6A5 Notice of Planned Operations Attachment (GEORGE SCOTT PAD):
List of Surface Owner(s) with Proposed Disturbance associated with George Scott Well Pad:**

TM 12 PCL 12, TM 8 PCL 52

Owner: John S. & Peggy J. Smith
Address: 142 N. 6th St.
Paden City, WV 26159

TM 8 PCL 36

Owner: Paul Amos Smith
Address: 140 Belvue Dr.
Los Gatos, CA 95032

TM 12 PCL 13.1, TM 8 PCL 36.1

Owner: George S. & Susan R. Wyckoff
Address: PO Box 102
Smithburg, WV 26436

RECEIVED
Office of Oil and Gas

MAY 14 2019

WV Department of
Environmental Protection

**WW-6A5 Notice of Planned Operations Attachment (GEORGE SCOTT PAD):
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Owner: Paul Amos Smith

Address: 140 Belvue Dr.
Los Gatos, CA 95032

TM 12 PCL 13.1, TM 8 PCL 36.1

Owner: George S. & Susan R. Wyckoff

Address: PO Box 102
Smithburg, WV 26436

**RECEIVED
Office of Oil and Gas**

MAY 14 2019

**WV Department of
Environmental Protection**



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
 Charleston, West Virginia 25305-0430 • (304) 558-3505

Thomas J. Smith, P. E.
 Secretary of Transportation/
 Commissioner of Highways

November 30, 2018

Jill M. Newman
 Deputy Commissioner

James A. Martin, Chief
 Office of Oil and Gas
 Department of Environmental Protection
 601 57th Street, SE
 Charleston, WV 25304

Subject: DOH Permit for the George Scott Pad, Doddridge County
 Clipper Unit 2H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2016-0698 which has been issued to Antero Resources Corporation for access to the State Road for a site located off of Doddridge County Route 50/30 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office O&G Coordinator

Cc: Karin Cox
 Antero Resources Corporation
 CH, OM, D-4
 File

RECEIVED
 Office of Oil and Gas

MAY 18 2019

WV Department of
 Environmental Protection

List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
Solvent Naphtha, petroleum, heavy aliph	64742-96-7
Soybean Oil, Me ester	67784-80-9
Copolymer of Maleic and Acrylic Acid	52255-49-9
DETA phosphonate	15827-60-8
Hexamethylene Triamine Penta	34690-00-1
Phosphino Carboxylic acid polymer	71050-62-9
Hexamethylene Diamine Tetra	23605-75-5
2-Propenoic acid, polymer with 2 propenamide	9003-06-9
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5
Diethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

RECEIVED

Office of Oil and Gas

MAY 13 2013

WV Department of

Environmental Protection

LOCATION COORDINATES:
 ACCESS ROAD ENTRANCE
 LATITUDE: 39.297424 LONGITUDE: -80.744071 (NAD 83)
 LATITUDE: 39.297941 LONGITUDE: -80.744245 (NAD 27)
 N 4346014.16 E 5022068.28 (UTM ZONE 17 METERS)

CENTROID OF PAD
 LATITUDE: 39.307762 LONGITUDE: -80.735254 (NAD 83)
 LATITUDE: 39.307919 LONGITUDE: -80.735408 (NAD 27)
 N 4350263.47 E 5222979.85 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

THE ACCESS ROAD(S), AND WELL PAD HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #45017C0140G.

MISS UTILITY STATEMENT:

ANTERO RESOURCES CORPORATION HAS NOTIFIED MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #1501239919. IN ADDITION, MISS UTILITY WAS CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION HAS OBTAINED AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN JANUARY, OCTOBER, & NOVEMBER 2014, JULY & DECEMBER 2015, & JANUARY 2017 BY ALLSTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE JANUARY 5, 2017 STREAM AND WETLAND DELINEATION INDEX MAPS WERE PREPARED BY ALLSTAR ECOLOGY AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE APPROPRIATE AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO SHEDDING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES:

A SUBSURFACE INVESTIGATION OF THE SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON FEBRUARY 6-13, 2017. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED MARCH 28, 2017, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS:

CHARLES E. COMPTON, III - SURVEYING COORDINATOR
 (304) 719-5448

OPERATOR:
 ANTERO RESOURCES CORPORATION
 535 WHITE OAKS BLVD
 BEDFORD, WV 26330
 PHONE: (304) 842-4100
 FAX: (304) 842-4102

MARK HUTSON - LAND AGENT
 CELL: (304) 889-8915

ENGINEER/SURVEYOR:
 NAVITUS ENGINEERING, INC.
 CYNTHIA S. KUMPF, P.E. - PROJECT MANAGER/ENGINEER
 OFFICE: (888) 882-4185 CELL: (540) 896-6747

FELI WAGONER - ENVIRONMENTAL ENGINEER
 OFFICE: (304) 642-4068 CELL: (504) 478-9770

CHRISTOPHER W. SAVIUS - PROJECT ENGINEER
 OFFICE: (888) 882-4185 CELL: (540) 896-6747

JON MCVEYERS - OPERATIONS SUPERINTENDENT
 OFFICE: (303) 357-9799 CELL: (303) 808-2423

ALLSTAR ECOLOGY, LLC
 RYAN L. WARD - ENVIRONMENTAL SCIENTIST
 (866) 213-2656 CELL: (304) 692-7477

AARON KUNZLER - CONSTRUCTION SUPERVISOR
 CELL: (485) 227-8344

GEOTECHNICAL:
 PENNSYLVANIA SOIL & ROCK, INC.
 CHRISTOPHER W. SAVIUS - PROJECT ENGINEER
 (412) 372-6000 CELL: (412) 568-0688

ROBERT B. WIKES - FIELD ENGINEER
 OFFICE: (304) 842-4100 CELL: (304) 627-7405

NOTES:

- ALL EMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETE AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RAINOFF EVENT IN EXCESS OF 0.5" AND ON A BIWEEKLY BASIS.
- THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS PAVEMENT OR BUILDINGS IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP.
- ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND PERMANENTLY SEED.
- THE AS-BUILT DISTURBANCE SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF MAY 31, 2019. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES.
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
- THE EXISTING EGRESSSES TO THE WELL PAD SHALL HAVE THE MOUNTAIN BEAMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

WVDEP OOG
 ACCEPTED AS-BUILT
 6/4/2019

GEORGE SCOTT WELL PAD AS-BUILT EROSION & SEDIMENT CONTROL IMPROVEMENT PLAN

WEST UNION DISTRICT, DODDRIDGE COUNTY COUNTY, WEST VIRGINIA
 NUTTER FORK-MIDDLE ISLAND CREEK WATERSHED

USGS 7.5 SMITHBURG & WEST UNION QUAD MAPS

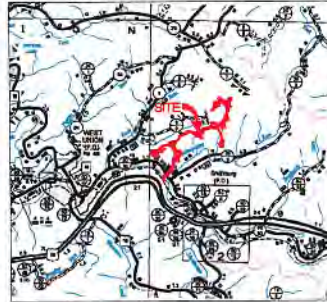


WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

WVDOH COUNTY ROAD MAP



MISS Utility of West Virginia
 1-800-245-4848
 West Virginia State Law
 (Section XIV: Chapter 24-C)
 Requires that you call two
 business days before you dig in
 the state of West Virginia.
 IT'S THE LAW!

REPRODUCTION NOTE

THESE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.
 THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

WEST VIRGINIA STATE PLANK COORDINATE SYSTEM
 NORTH ZONE, NAD83
 DISPLAYED BY SURVAY GRADE GPS & GPS
 POINT PROCESSING

SHEET INDEX

- 1 - COVER SHEET
- 2 - LEGEND
- 3 - OVERALL PLAN SHEET INDEX
- 4-7 - ACCESS ROAD AS-BUILT PLAN
- 8 - ACCESS ROAD & WELL PAD AS-BUILT PLAN
- 9-10 - STOCKPILE AS-BUILT PLAN
- 11-14 - ACCESS ROAD AS-BUILT PROFILES
- 15 - WELL PAD & STOCKPILE AS-BUILT SECTIONS
- 16 - DETAILS
- 17 - ACCESS ROAD & WELL PAD RECLAMATION PLAN

GEORGE SCOTT LIMITS OF DISTURBANCE AREA (AC)	
Total Area	12.93
Access Road "B" (13.507)	12.93
Access Road "C" (247)	0.92
Access Road "D" (169)	0.61
Well Pad	6.55
Excess/Topsoil Material Stockpiles	11.06
Total Affected Area	31.87
Total Wooded Acres Disturbed	25.41
Impacts to George M. & Sandra A. Wyckoff TM 12-13-17	
Access Road "B"	0.15
Total Affected Area	0.15
Total Wooded Acres Disturbed	0.11
Impacts to John S. & Peggy J. Smith TM 12-11	
Access Road "B" (815)	3.16
Total Affected Area	3.16
Total Wooded Acres Disturbed	1.59
Impacts to John S. & Peggy J. Smith TM 12-12	
Access Road "B" (1,081)	4.20
Access Road "D"	0.05
Well Pad	0.21
Total Affected Area	4.46
Total Wooded Acres Disturbed	4.38
Impacts to John S. & Peggy J. Smith TM 8-62	
Access Road "B" (833)	3.26
Access Road "D"	0.10
Well Pad	2.56
Total Affected Area	6.82
Total Wooded Acres Disturbed	5.73

GEORGE SCOTT LIMITS OF DISTURBANCE AREA (AC)	
Impacts to Paul Acres Smith TM 8-34	0.97
Well Pad	0.46
Total Affected Area	1.43
Total Wooded Acres Disturbed	1.42
Impacts to George S. Wyckoff TM 12-13-17	
Access Road "C" (174)	0.64
Access Road "D" (169)	0.46
Well Pad	2.12
Excess/Topsoil Material Stockpiles	3.85
Total Affected Area	7.10
Total Wooded Acres Disturbed	3.45
Impacts to George S. & Susan R. Wyckoff TM 8-34-11	
Access Road "B" (581)	1.19
Access Road "C" (73)	0.26
Well Pad	0.70
Excess/Topsoil Material Stockpiles	0.12
Total Affected Area	2.29
Total Wooded Acres Disturbed	1.77
Impacts to Robert L. Holland TM 8-61	
Excess/Topsoil Material Stockpiles	0.88
Total Affected Area	0.88
Total Wooded Acres Disturbed	0.75
Impacts to L.W. Coughlan Chad W. Johnson TM 12-14	
Excess/Topsoil Material Stockpiles	6.20
Total Affected Area	6.20
Total Wooded Acres Disturbed	6.20

Proposed Well Name	NW North NAD 27	W North NAD 83	UTM (METERS) Zone 17	NAD 83 L&E & Long
Open Shot	N 290537.78	N 290573.45	N 435054.48	LAT 38-18-27.8330
Laser	E 180948.34	E 18 4622.15	E 522983.04	LONG -80-44-49.3871
Unit 2H	N 290541.91	N 290575.59	N 435055.69	LAT 38-18-27.9625
Laser	E 180958.83	E 181914.73	E 522988.97	LONG -80-44-50.1647
Unit 4H	N 290532.06	N 290567.74	N 435052.84	LAT 38-18-27.5763
Laser	E 180963.91	E 181924.32	E 522986.81	LONG -80-44-50.0422
Unit 1H	N 290528.21	N 290564.88	N 435050.02	LAT 38-18-27.5228
Laser	E 180964.68	E 181922.00	E 522982.74	LONG -80-43-59.8188
Unit 2H	N 290528.35	N 290562.04	N 435051.20	LAT 38-18-27.5255
Laser	E 180964.68	E 181943.49	E 522995.97	LONG -80-43-59.7874
Open Shot	N 290523.50	N 290558.19	N 435050.36	LAT 38-18-27.4987
Corlita	E 180958.27	E 181953.07	E 522995.81	LONG -80-43-59.6712
Unit 1H	N 290525.45	N 290549.34	N 435048.29	LAT 38-18-27.4715
Corlita	E 180953.85	E 181956.89	E 523001.34	LONG -80-43-58.5525
Unit 2H	N 290517.80	N 290553.49	N 435046.74	LAT 38-18-27.4449
Corlita	E 180953.44	E 181957.24	E 523004.48	LONG -80-43-58.4501
Unit 3H	N 290514.85	N 290550.84	N 435047.82	LAT 38-18-27.4180
Corlita	E 180953.02	E 181954.83	E 523007.41	LONG -80-43-58.3078
Unit 1H	N 290512.10	N 290547.78	N 435047.10	LAT 38-18-27.3912
Clipper	E 180952.61	E 181959.41	E 523010.35	LONG -80-43-58.1982
Unit 2H	N 290508.25	N 290544.94	N 435046.29	LAT 38-18-27.3643
Clipper	E 180942.19	E 181961.00	E 523013.28	LONG -80-43-58.0828
Unit 3H	N 290506.40	N 290542.06	N 435045.46	LAT 38-18-27.3374
Open Shot	E 180942.18	E 181961.58	E 523015.22	LONG -80-43-58.0460
Laser Unit 3H (Permitted)	N 290514.01	N 290549.70	N 435047.30	LAT 38-18-27.4000
Laser Unit 3H (Permitted)	E 180958.56	E 181961.37	E 522997.78	LONG -80-44-50.1275
Well Pad Elevation	1,261.4			

AS-BUILT CERTIFICATIONS:

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS RULES 35-8.



DATE: 06/05/2019 REVISION: REVISION PER PAD RECLAMATION SYSTEMS



THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

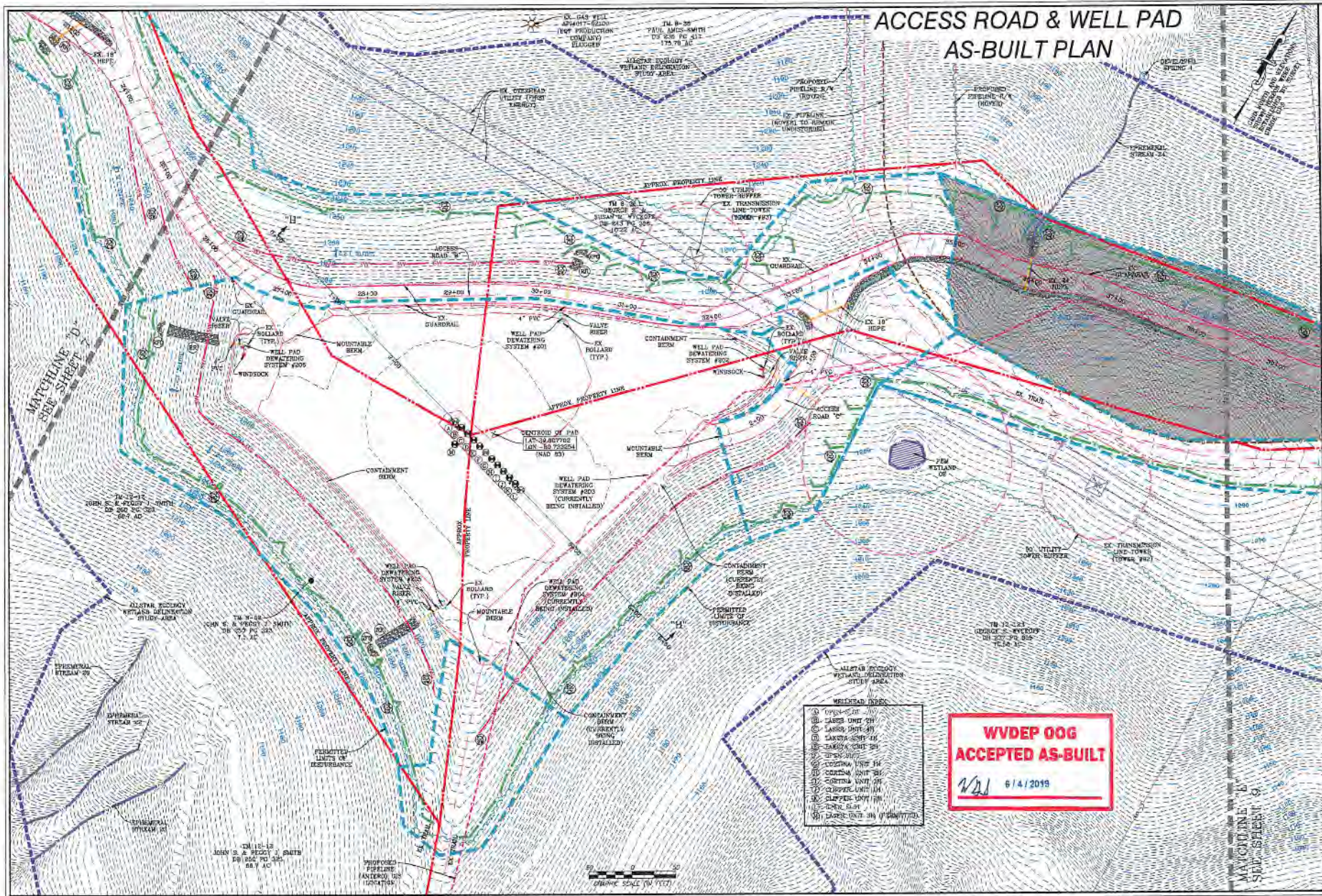
COVER SHEET

GEORGE SCOTT WELL PAD

WEST UNION DISTRICT DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 06/05/2019 SCALE: AS SHOWN SHEET 1 OF 17



**ACCESS ROAD & WELL PAD
AS-BUILT PLAN**

NAVATUS
ENERGY ENGINEERING

Telephone: (855) 652-4185 | www.NavatusEng.com

DATE	REVISION
06/03/2019	REVISED PER PAD DEWATERING SYSTEMS



THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

ACCESS ROAD & WELL PAD AS-BUILT PLAN
**GEORGE SCOTT
WELL PAD**
WEST UNION DISTRICT
DODDRIIDGE COUNTY, WEST VIRGINIA



DATE 06/03/2019
SCALE 1" = 50'
SHEET 8 OF 17

- WVDEP OOG
ACCEPTED AS-BUILT**
- 6/4/2019
- 1) ORIGINAL
 - 2) CLASS UNIT SH
 - 3) CLASS UNIT SH
 - 4) CLASS UNIT SH
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 - 20) CLASS UNIT SH

**WVDEP OOG
ACCEPTED AS-BUILT**

6/4/2019