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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

January 14, 2016

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-9502325, issued to ANTERO RESOURCES CORPORATION, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

  
James Martin

Chief

Operator's Well No: GOODFELLOW UNIT 2H

Farm Name: WEIGLE, EDWIN C.

**API Well Number: 47-9502325**

**Permit Type: Horizontal 6A Well**

Date Issued: 01/14/2016

**Promoting a healthy environment.**

**01/15/2016**

# 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

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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. 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.
8. 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.
9. 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.

received 11/06/15

WW-6B  
(04/15)

API NO. 47-095 - 02325  
OPERATOR WELL NO. Goodfellow Unit 2H  
Well Pad Name: Weigle East Pad

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

1) Well Operator: Antero Resources Corporat 494488557 095 - Tyler Ellsworth Shirley 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Goodfellow Unit 2H Well Pad Name: Weigle East Pad

3) Farm Name/Surface Owner: Edwin C. Weigle Public Road Access: CR 18/14

4) Elevation, current ground: 817' Elevation, proposed post-construction: 817'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal  \_\_\_\_\_

6) Existing Pad: Yes or No Yes

*DmH*  
*12-2-15*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 6500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6500' TVD

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 15,300' MD

11) Proposed Horizontal Leg Length: 7957'

12) Approximate Fresh Water Strata Depths: 9', 194', 366'

13) Method to Determine Fresh Water Depths: Scardina Unit 1H (API# 47-095-02169) on same pad.

14) Approximate Saltwater Depths: 1931', 1136'

15) Approximate Coal Seam Depths: 1380', 1461'

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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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#	60'	60'	CTS, 164 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	440'	440**see #19	CTS, 611 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2400'	2400'	CTS, 977 Cu. FL
Intermediate							
Production	5-1/2"	New	P-110	20#	15,300'	15,300'	CTS, 3830 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

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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	30"	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 HPOZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

**PACKERS**

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

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.  
\*Antero will be air drilling the fresh water string which makes it difficult to determine when freshwater 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.

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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): 22.17 acres

22) Area to be disturbed for well pad only, less access road (acres): 3.22 acres (\*expanded LOD)

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.

**Antero Resources Corporation**

Proposed Revegetation Treatment: Acres Disturbed 22.17 acres Prevegetation pH \_\_\_\_\_

Lime 2-3 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

Expanded Pad (3.22) + Tank Pad (1.90) + Auxiliary Pad (1.46) + Access Road (3.38) + Topsoil Stockpile (1.67) + Additional Clearing (10.54) = 22.17 Acres

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type                      lbs/acre

Seed Type                      lbs/acre

See attached Table 2, 3 & 4 for additional seed type (Weigle East Pad Design Page D5)

See attached Table 2, 3 & 4 for additional seed type (Weigle East Pad Design Page D5)

\*or type of grass seed requested by surface owner

\*or type of grass seed requested by surface owner

**Attach:**

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

Comments: \_\_\_\_\_

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Title: Oil & Gas Inspector

Date: 12-2-15

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**  
**A: 441 Lemasters Road**  
**Middlebourne, WV 26149**  
**B: 312 Jug Run Road**  
**Alma, WV 26320**

## **Well Site Safety Plan**

### **Antero Resources**

**Well Name:** Hawkeye Unit 1H, Hawkeye Unit 2H, Hawkeye Unit 3H, Scardina Unit 1H, Scardina Unit 2H, Scardina Unit 3H, Scardina Unit 4H, Dean Unit 1H, Dean Unit 2H, Goodfellow Unit 1H, Goodfellow Unit 2H, Owens Unit 1H, Owens Unit 2H, Owens Unit 3H

**Pad Location:** WEIGLE EAST PAD  
Tyler County/Ellsworth District

DMH  
12-2-15

**GPS Coordinates:** Lat 39°27'58.60"/Long -80°51'09.51" (NAD83)

#### **Driving Directions:**

**Main Access:**

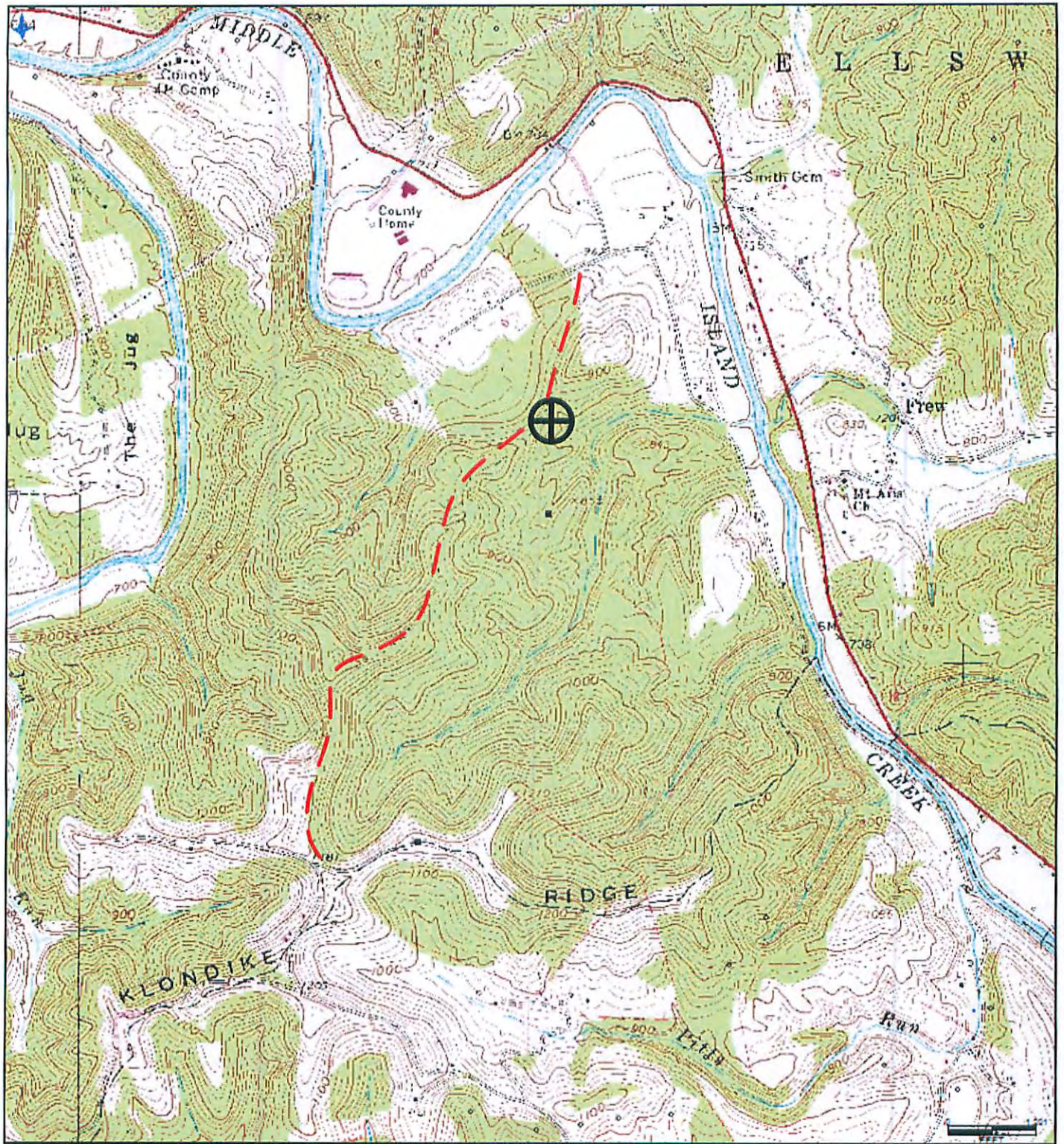
From US Route 50, turn onto WV Route 18 (towards West Union). Follow WV Route 18 North for 22.8 miles. Turn Left onto County Route 18/7 (Lemasters Bridge Road). Follow County Route 18/7 for .3 miles. Turn Right onto County Route 18/4. Follow County Route 18/4 for .1 miles. The site entrance will be on the left (South) side of the road.

**Temporary Access:**

From US Route 50, turn onto WV Route 18 North (towards West Union). Follow WV Route 18 North for 17.8 miles. Turn Left onto County Route 46 (Klondike Ridge). Follow County Route 46 for 2 miles. Turn Right onto County Route 46/1. Follow County Route 46/1 for .3 miles. The temporary site entrance will be on the Right (North) side of the road. (Near the existing Pierpoint Site Entrance).

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



**Antero Resources Corporation**  
Appalachian Basin  
Goodfellow Unit 2H  
Tyler County

Quadrangle: Smithburg  
Watershed: Gorrell Run Run – Middle Island Creek  
District: Ellsworth  
Date: 02/21/2014

LATITUDE 39°30'00"

5,521'

8,275' TO BOTTOM HOLE

LATITUDE 39°30'00"

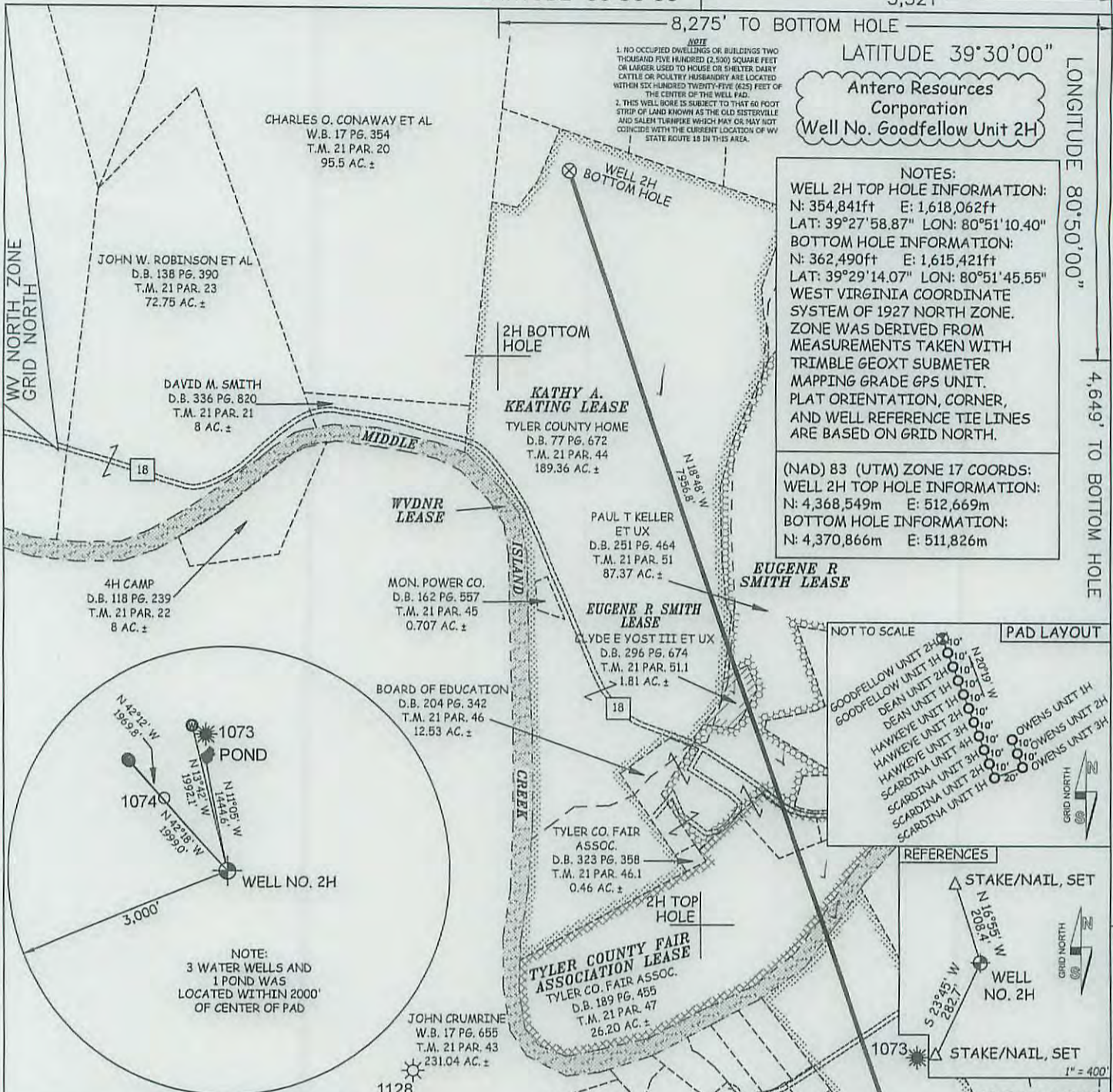
Antero Resources Corporation  
Well No. Goodfellow Unit 2H

LONGITUDE 80°50'00"

4,649' TO BOTTOM HOLE

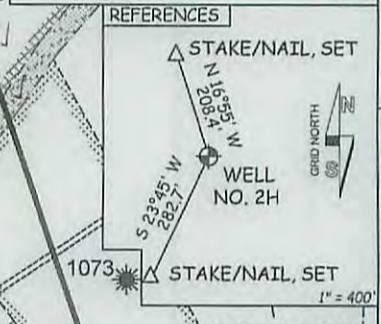
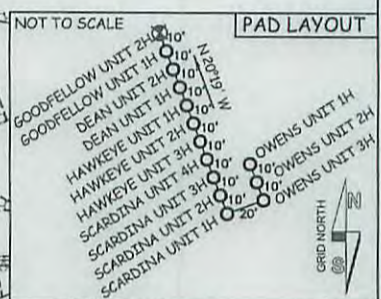
12,259'

LONGITUDE 80°50'00"



NOTES:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 354,841ft E: 1,618,062ft  
 LAT: 39°27'58.87" LON: 80°51'10.40"  
 BOTTOM HOLE INFORMATION:  
 N: 362,490ft E: 1,615,421ft  
 LAT: 39°29'14.07" LON: 80°51'45.55"  
 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: 4,368,549m E: 512,669m  
 BOTTOM HOLE INFORMATION:  
 N: 4,370,866m E: 511,826m



47 - 095 - 02325 HGA  
 STATE COUNTY PERMIT

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

JOB # 13-041WA  
 DRAWING # GOODFELLOW2H  
 SCALE 1" = 1000'  
 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 +/-  
 X Existing Fence  
 ⊕ Found monument, as noted

THOMAS SUMMERS P.S. 2109  
 DATE 10/12/15  
 OPERATOR'S WELL# GOODFELLOW UNIT #2H

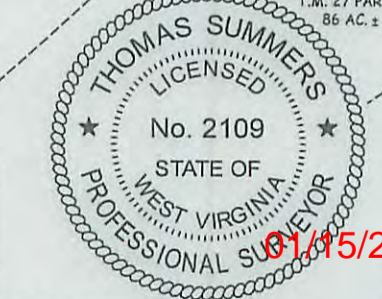
WELL TYPE: OIL GAS  LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION  STORAGE DEEP SHALLOW

LOCATION: ELEVATION 811 ORIGINAL - 817' AS-BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE SHIRLEY 7.5' DISTRICT ELLSWORTH COUNTY TYLER  
 SURFACE OWNER EDWIN C. WEIGLE ACREAGE 60.19 ACRES +/-

OIL & GAS ROYALTY OWNER KATHY ANN SEAGO; RICHARD L. SEAGO ET UX; ROBERT L. DEAN; LORETTA J. FULKES; WVDNR; TYLER COUNTY FAIR ASSOCIATION; EUGENE R SMITH; EUGENE R SMITH; KATHY A KEATING  
 LEASE ACREAGE 129.2 AC.±; 74.2 AC.±; 35 AC.±; 37.25 AC.±; 34 AC.±; 26.865 AC.±; 87.37 AC.±; 1.812 AC.±; 190.07 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 6,500' TVD 15,300' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313



01/15/2016

COUNTY NAME PERMIT

WW-6A1

Operator's Well Number Goodfellow 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)

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b><u>Kathy Ann Seago Lease</u></b>			
Kathy Ann Seago, as a beneficiary of the Estate of Edwin C. Weigle, deceased	Antero Resources Appalachian Corporation	1/8+	0402/0448
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<b><u>Richard L. Seago, et ux Lease</u></b>			
Richard L. Seago	Antero Resources Appalachian Corporation	1/8+	0403/0733
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<b><u>Robert L. Dean Lease</u></b>			
Robert Dean	Antero Resources Appalachian Corporation	1/8+	0410/0569
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<b><u>Loretta J. Fulks Lease</u></b>			
Loretta J. Fulks	Spartan Exploration Co.	1/8	0361/0529
Spartan Exploration Co.	Tenaska Resources, LLC	Merger	0375/0158
Tenaska Resources, LLC	Chesapeake Appalachia, LLC	Assignment	0399/0670
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc.	Assignment	0423/0152
Statoil USA Onshore Properties, Inc.	Antero Resources Corporation	Assignment	0441/0523
<b><u>WVDNR Lease (Middle Island Creek)</u></b>			
West Virginia Division of Natural Resources	Antero Resources Corporation	1/8+	0483/0269
<b><u>Tyler County Fair Association Lease</u></b>			
Tyler County Fair Association, Inc.	Antero Resources Appalachian Corporation	1/8+	0424/0521
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<b><u>Eugene R. Smith Lease</u></b>			
Eugene R. Smith	Antero Resources Corporation	1/8+	0449/0828
<b><u>Eugene R. Smith Lease</u></b>			
Eugene R. Smith	Antero Resources Corporation	1/8+	0449/0823

**Received**  
**Office of Oil & Gas**  
NOV 06 2015

\*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\*\*

01/15/2016

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Kathy A. Keating Lease</u>	Kathy A. Keating	Antero Resources Corporation	1/8+	0438/0438

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

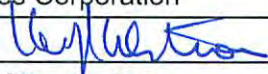
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation  
 By: Kevin Kilstrom   
 Its: Vice President of Production

**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



Penney Barker, Manager  
Corporations Division  
IN THE OFFICE OF  
SECRETARY OF STATE  
Tel: (304)558-8000  
Fax: (304)558-8381  
Website: [www.wvgsos.com](http://www.wvgsos.com)  
E-mail: [business@wvgsos.com](mailto:business@wvgsos.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.)  
Alvin A. Schopp (909) 367-7910  
Contact Name Phone Number

7. Signature information (See below *\*Important Legal Notice Regarding Signature\**):  
Print Name of Signer: Alvin A. Schopp Title/Capacity: Authorized Person  
Signature: [Handwritten Signature] Date: June 10, 2013

*\*Important Legal Notice Regarding Signature:* Per 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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Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

October 20, 2015

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

RE: Goodfellow Unit 2H  
Quadrangle: Shirley 7.5'  
Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Goodfellow 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 Goodfellow Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jared Hurst", with a long horizontal flourish extending to the right.

Jared Hurst  
Senior Landman

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

Date of Notice Certification: 11/02/2015

API No. 47- 095 - 02325  
Operator's Well No. Goodfellow Unit 2H  
Well Pad Name: Existing Weigle East 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>512,689m</u>
County: <u>Tyler</u>	Northing: <u>4,368,549m</u>
District: <u>Ellsworth</u>	Public Road Access: <u>CR 18/14</u>
Quadrangle: <u>Shirley 7.5'</u>	Generally used farm name: <u>Edwin C. Weigle</u>
Watershed: <u>Outlet 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.

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:  *PLEASE CHECK ALL THAT APPLY  <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED  <input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION  <input checked="" type="checkbox"/> 5. PUBLIC NOTICE  <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<b>OOG OFFICE USE ONLY</b>  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED/ NOT REQUIRED   <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED
--	--	--

**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, personal service, the return receipt card or other postal receipt for certified mailing.

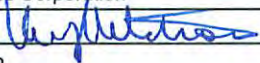
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**Certification of Notice is hereby given:**

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>VP of Production</u>	Facsimile:	<u>303-357-7315</u>
Telephone:	<u>303-357-7310</u>	Email:	<u>asteale@anteroresources.com</u>



Subscribed and sworn before me this 2<sup>nd</sup> day of Nov. 2015.  
Natalie Komp Notary Public  
 My Commission Expires July 18, 2018

**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](mailto:deprivacyofficer@wv.gov).

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**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:** 11/3/2015 **Date Permit Application Filed:** 11/3/2015

Notice of:

- 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
- 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.

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

SURFACE OWNER(s)  
Name: PLEASE SEE ATTACHMENT  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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: Loretta Fulks (1 pond) \* 3 water wells are identified but are located greater than 1500'  
Address: 833 Lemasters Road  
Middlebourne, WV 26149

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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\*Please attach additional forms if necessary

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**WW-6A Notice of Application Attachment (WEIGLE EAST PAD):****List of Surface Owner(s) with Proposed Disturbance associated with Weigle East Well Pad:**

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

**Located on TM 27/PCL 21 & 22 – Heirs of Edwin C. Weigle**

**Owner:** Kathy Ann Seago & Richard L. Seago ✓

**Address:** 1018 Frew Circle  
Middlebourne, WV 26149

**Owner:** Steven C. Weigle, II ✓

**Address:** 6473 Middle Island Road  
Middlebourne, WV 26149

**Owner:** Brian M. Weigle ✓

**Address:** 4789 Middle Island Road  
Middlebourne, WV 26149

**Owner:** Michelle S. Forester ✓

**Address:** 970 McElroy Creek Rd.  
Alma, WV 26320

**Located on TM 27/PCL 8**

**Owner:** Loretta J. Fulks ✓

**Address:** 633 Lemasters Road  
Middlebourne, WV 26149

**ROAD AND/OR OTHER DISTURBANCE – Owners have executed signed Surface Use and/or Road Agreements with Antero Resources Corporation. However, they were only notified if their tracts were overlying the oil and gas leasehold being developed by the proposed well work.**

**Located on TM 27/PCL 10 & 22 – Heirs of Edwin C. Weigle**

**Owner:** Kathy Ann Seago & Richard L. Seago ✓

**Address:** 1018 Frew Circle  
Middlebourne, WV 26149

**Owner:** Steven C. Weigle, II ✓

**Address:** 6473 Middle Island Road  
Middlebourne, WV 26149

**Owner:** Brian M. Weigle ✓

**Address:** 4789 Middle Island Road  
Middlebourne, WV 26149

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**Owner:** Michelle S. Forester  
**Address:** 970 McElroy Creek Rd.  
Alma, WV 26320

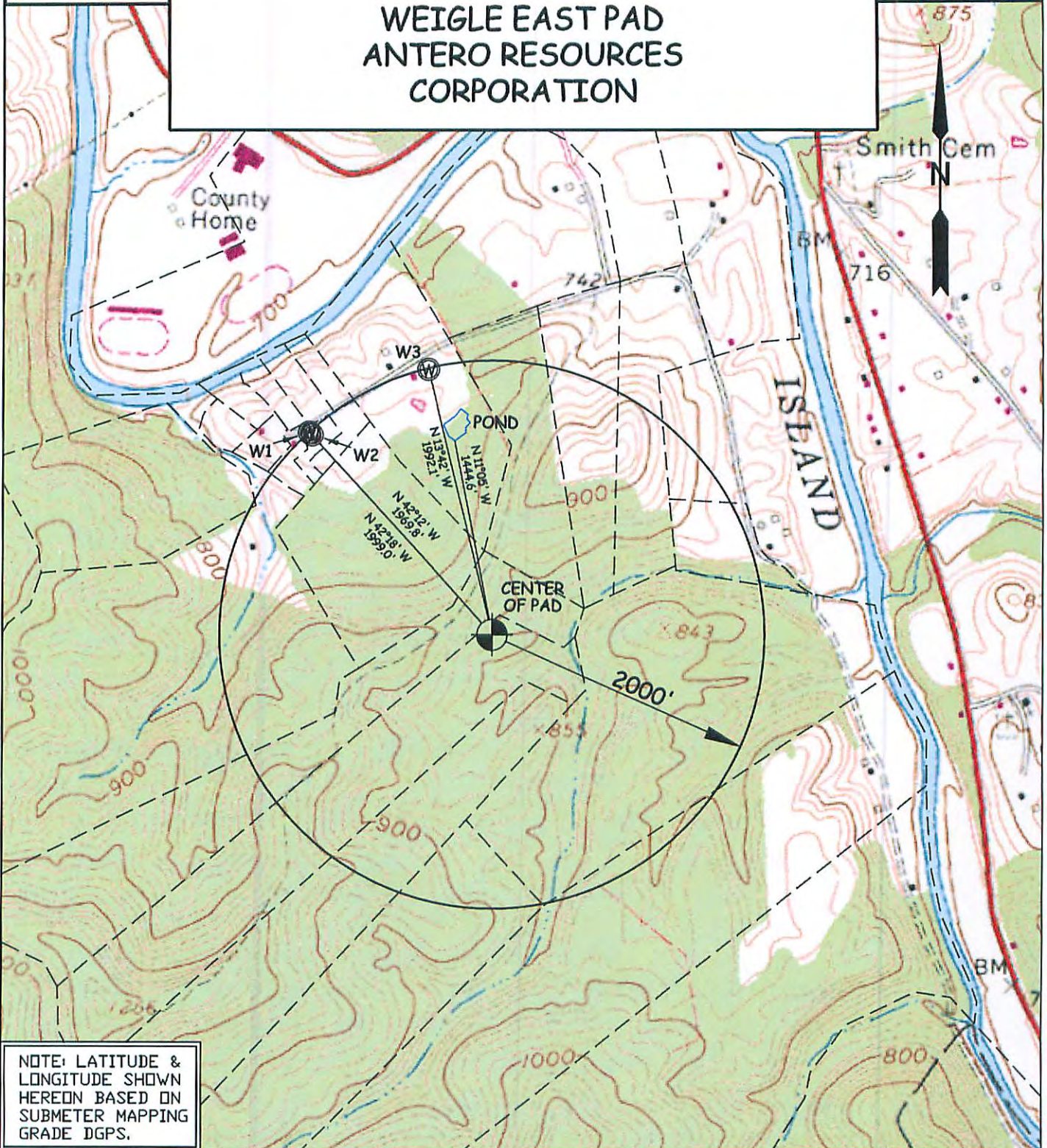
**Located on TM 27/PCL 9**

**Owner:** Loretta J. Fulks  
**Address:** 633 Lemasters Road  
Middlebourne, WV 26149

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**WEIGLE EAST PAD  
ANTERO RESOURCES  
CORPORATION**



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

WELL	SURFACE OWNER	ADDRESS	DISTRICT-TAX MAP-PARCEL	WELL LATITUDE	WELL LONGITUDE
W1	JEANIE PYLES	P.O. BOX 445 MIDDLEBOURNE, WV 26149	2-27-7.3	0° 58' 56.78"	128° 56' 06.46"
W2	JEANIE PYLES	P.O. BOX 445 MIDDLEBOURNE, WV 26149	2-27-7.3	0° 58' 56.59"	128° 56' 06.68"
W3	LORETTA FULKS	633 Lemasters Road, Middlebourne, WV 26149	2-27-9	0° 59' 01.32"	128° 56' 15.08"

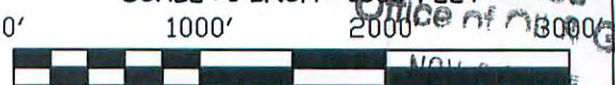
**WILLOW LAND SURVEYING, PLLC**  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

TOPO SECTION(S) OF :  
SHIRLEY 7.5' QUAD.

JOB #: 13-038WA

FILE: WEIGLEEASTPADWW

SCALE : 1-INCH = 1000- FEET



DATE: 02/07/14

DRAWN BY: C.A.S.

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**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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

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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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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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.**

### **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.

Received  
Office of Oil & Gas  
NOV 06 2015

01/15/2016



WW-6A  
(8-13)

API NO. 47-095 - 02325  
OPERATOR WELL NO. Goodfellow Unit 2H  
Well Pad Name: Existing Weigle East Pad

**Notice is hereby given by:**

Well Operator: Antero Resources Corporation  
Telephone: (303) 357-7310  
Email: astelee@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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 3<sup>rd</sup> day of NOV, 2015.

Natalie Komp Notary Public

My Commission Expires July 18, 2018

Received  
Office of Oil & Gas  
NOV 06 2015

01/15/2016

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF ENTRY FOR PLAT SURVEY**

**Notice Time Requirement:** Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

**Date of Notice:** 10/20/2013      **Date of Planned Entry:** 10/27/2013

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: PLEASE SEE ATTACHMENT  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: NO DECLARATIONS ON RECORD WITH COUNTY  
Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: PLEASE SEE ATTACHMENT  
Address: \_\_\_\_\_

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia  
 County: Tyler  
 District: Ellsworth  
 Quadrangle: Shirley 7.5'

Approx. Latitude & Longitude: 39.466278, -80.852642  
 Public Road Access: CR 18/14  
 Watershed: Gorrell Run - Middle Island Creek  
 Generally used farm name: Brian Weigle, Kathy Ann Beago, Michelle S. Forester, Richard L. Beago, and Steven C. 1

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

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

**Received**  
**Office of Oil & Gas**

**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](mailto:depprivacyofficer@wv.gov).

NOV 06 2015

**WW-6A3 Notice of Entry For Plat Survey Attachment:****Surface Owners – Heirs of Edwin C. Weigle**

**Owner:** Richard L. Seago  
**Address:** 1018 Frew Circle  
 Middlebourne, WV 26149

**Owner:** Brian M. Weigle  
**Address:** HC 69 Box 40B  
 Middlebourne, WV 26149

**Owner:** Steven C. Weigle II  
**Address:** HC 69 Box 63  
 Middlebourne, WV 26149

**Owner:** Michelle S. Forester  
**Address:** 970 McElroy Road  
 Alma, WV 26320

**Owner:** Kathy Ann Seago  
**Address:** 1018 Frew Circle  
 Middlebourne, WV 26149

**Owner:** Kathy Ann Seago  
**Address:** HC 69 Box 53AA  
 Middlebourne, WV 26149

**Mineral Owners:**

**Owner:** Richard L. Seago  
**Address:** HC 69 Box 53AA  
 Middlebourne, WV 26149

**Owner:** Richard L. Seago  
**Address:** 1018 Frew Circle  
 Middlebourne, WV 26149

**Owner:** Brian M. Weigle  
**Address:** HC 69 Box 40B  
 Middlebourne, WV 26149

**Owner:** Steven C. Weigle II  
**Address:** HC 69 Box 63  
 Middlebourne, WV 26149

**Owner:** Steven C. Weigle II  
**Address:** HC 69 Box 53AA  
 Middlebourne, WV 26149

**Owner:** Loretta J. Fulks  
**Address:** 633 Lemasters Road  
 Middlebourne, WV 26149

**Owner:** Loretta J. Fulks  
**Address:** HC 69 Box 37  
 Middlebourne, WV 26149

**Owner:** Michelle S. Forester  
**Address:** 970 McElroy Road  
 Alma, WV 26320

**Owner:** Kathy Ann Seago  
**Address:** 1018 Frew Circle  
 Middlebourne, WV 26149

**Owner:** Kathy Ann Seago  
**Address:** HC 69 Box 53AA  
 Middlebourne, WV 26149

**Owner:** James H. Dean  
**Address:** 1671 Bay View Drive  
 Sarasota, FL 34241

**Owner:** Stephanie McGowan  
**Address:** 4675 Redbay Way  
 Sarasota, FL 34241

**Owner:** Robert C. Dean  
**Address:** 6701 South Gator Boulevard  
 Sarasota, FL 34241

Received  
 Office of Oil & Gas  
 NOV 06 2015

01/15/2016

WW-6A5  
(1/12)

Operator Well No. Goodfellow 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:** 11/03/2015      **Date Permit Application Filed:** 11/03/2015

**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: <u>PLEASE SEE ATTACHMENT</u>	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>512,669m</u>
County: <u>Tyler</u>		Northing: <u>4,368,549m</u>
District: <u>Elsworth</u>	Public Road Access: <u>CR 18/14</u>	
Quadrangle: <u>Shirley 7.5'</u>	Generally used farm name: <u>Edwin C. Weigle</u>	
Watershed: <u>Outlet 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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

**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](mailto:depprivacyofficer@wv.gov).

**Received**  
**Office of Oil & Gas**

**NOV 06 2015**

**WW-6A5 Notice of Planned Operations Attachment (WEIGLE EAST PAD):****List of Surface Owner(s) with Proposed Disturbance associated with Weigle East Well Pad:****Located on TM 27/PCL 21 & 22 – Heirs of Edwin C. Weigle**

**Owner:** Kathy Ann Seago & Richard L. Seago  
**Address:** 1018 Frew Circle  
Middlebourne, WV 26149

**Owner:** Steven C. Weigle, II  
**Address:** 6473 Middle Island Road  
Middlebourne, WV 26149

**Owner:** Brian M. Weigle  
**Address:** 4789 Middle Island Road  
Middlebourne, WV 26149

**Owner:** Michelle S. Forester  
**Address:** 970 McElroy Creek Rd.  
Alma, WV 26320

**Located on TM 27/PCL 8**

**Owner:** Loretta J. Fulks  
**Address:** 633 Lemasters Road  
Middlebourne, WV 26149

Received  
Office of Oil & Gas  
NOV 06 2015

01/15/2016



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

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

Earl Ray Tomblin  
Governor

Paul A. Mattox, Jr., P. E.  
Secretary of Transportation/  
Commissioner of Highways

February 5, 2014

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

Subject: DOH Permit for the Weigle East Pad, Tyler County  
Goodfellow Unit 2H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2014-0052 which has been applied for by Antero Resources Corporation for access to the State Road for a well site located off of Tyler County Route 18/14 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

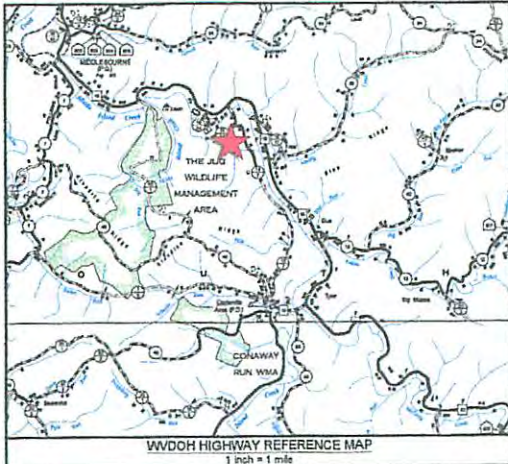
Cc: Ashlie Mihalcin  
Antero Resources Corporation  
CH, OM, D-6  
File

Received  
Office of Oil & Gas  
NOV 06 2015

## 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

**Received**  
**Office of Oil & Gas**  
 NOV 06 2015



**FINAL DESIGN: ISSUE FOR PERMITTING**  
**ANTERO RESOURCES**  
**WEIGLE EAST SITE**  
**PAD MODIFICATION**

ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA  
 SHIRLEY 7.5 MINUTE QUAD MAP

**APPROVED**  
**WVDEP OOG**  
 Modification  
 11/30/2015



**Kelly S Surveying**  
 P.O. Box 264  
 Daley, WV 26229  
 C.R.# 20333

REVISIONS

NO.	DESCRIPTION	DATE



**GENERAL DESCRIPTION**

WEIGLE EAST PAD MODIFICATION

**PROJECT CONTACTS**

**OPERATOR:**  
 ANTERO RESOURCES CORPORATION  
 535 WHITE OAKS BLVD.  
 BRIDGEPORT, WV 26330  
 PHONE: (304) 842-4100  
 FAX: (304) 842-4102  
 www.ateroresources.com

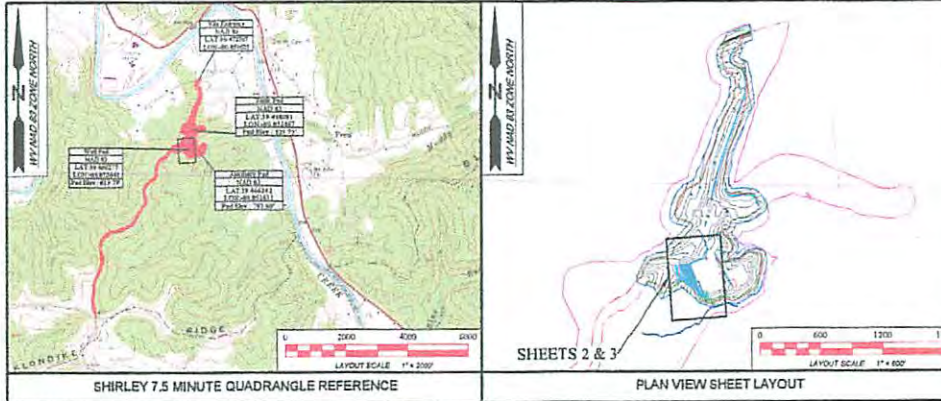
**PROJECT COORDINATOR:**

ROBERT WIRKS  
 DESIGN MANAGER  
 PHONE: (304) 842-4100  
 CELL: (304) 827-7425  
 FAX: (304) 842-4102  
 EMAIL: rwirks@anteroresources.com

**CONSTRUCTION COORDINATOR:**

ELI WAGNER  
 ENVIRONMENTAL ENGINEER  
 PHONE: (304) 842-4258  
 CELL: (304) 478-4770  
 FAX: (304) 842-4102  
 EMAIL: ewagner@anteroresources.com

JOHN KAWCAK  
 OPERATIONS SUPERINTENDENT  
 CELL: (817) 386-1553  
 FAX: (304) 842-1102  
 EMAIL: jkawcak@anteroresources.com



**WELL LOCATION RESTRICTIONS**

- ALL PAD AND FRACTURE PIT CONSTRUCTION COMPLIES WITH THE FOLLOWING RESTRICTIONS.
- \*250' FROM AN EXISTING WELL OR DEVELOPED SPRING USED FOR HUMAN OR DOMESTIC ANIMALS.
  - \*25' FROM AN OCCUPIED DWELLING OR BARN GREATER THAN 2,500 SF USED FOR POLYDAIRY OR DAIRY MEASURED FROM THE CENTER OF THE PAD.
  - \*100' FROM THE EDGE OF DISTURBANCE TO WETLANDS, PERENNIAL STREAMS, NATURAL OR ARTIFICIAL LAKE, POND OR RESERVOIR.
  - \*300' FROM THE EDGE OF DISTURBANCE TO A NATURALLY REPRODUCING TROUT STREAM.
  - \*1,000' OF A SURFACE OR GROUND WATER INTAKE TO A PUBLIC WATER SUPPLY.

(WELL LOCATION RESTRICTIONS OF WV CODE 22-6A-12)

CONDITION CODE	DESCRIPTION	CONDITION CODE	DESCRIPTION	CONDITION CODE	DESCRIPTION	CONDITION CODE	DESCRIPTION	CONDITION CODE	DESCRIPTION		
1	CONCRETE	2	ASPHALT	3	GRAVEL	4	CLAY	5	SAND	6	ROCK

**ENGINEER / SURVEYOR**

KELLY SURVEYING PLLC.  
 P.O. BOX 264  
 DALEY, WV 26229  
 PHONE: (304) 338-6985  
 FAX: (304) 304-338-6061

**PROJECT MANAGER**

JOHN P. SEE PE 6051  
 KENNETH KELLY PFSU 873  
 KIRK WAGNER EIT

**GEOTECHNICAL:**

GEOTECHNICAL INVESTIGATION AS PROVIDED BY KLEINFELDER  
 DATED OCTOBER 4, 2013

**ENVIRONMENTAL:**

WETLAND DELINEATIONS AS PROVIDED BY ALLSTAR ECOLOGY  
 DATED MAY 24, 2013

**TOPOGRAPHIC INFORMATION:**

THE TOPOGRAPHIC INFORMATION SHOWN HEREIN IS BASED ON AERIAL PHOTOGRAPHY BY BLUE MOUNTAIN AERIAL MAPPING, BURTON, WV

NO.	INDEX TO SHEETS
COVER	COVER
N1	GENERAL NOTES
N2	EROSION & SEDIMENT CONTROL NOTES
N3	GENERAL CONSTRUCTION NOTES
D1	EROSION & SEDIMENT CONTROL DETAILS
D2	EROSION & SEDIMENT CONTROL DETAILS
D3	TYPICAL DETAILS
D4	TYPICAL DETAILS
D5	REVEGETATION CHARTS
1	EXISTING SITE PLAN OVERVIEW
2	EXISTING SITE PLAN VIEW
3	PAD MODIFICATION DESIGN PLAN VIEW
4	SECTIONS SHEET
5	SCHEDULE OF QUANTITIES AND VOLUMES
6	WELL OFFSET DIMENSIONS
7	SITE RECLAMATION

Floodplain Conditions	
Do site construction activities take place in a floodplain:	NO
Permit needed from county floodplain coordinator:	NO
Flood Hazard Zone:	NO
NEC-RAS Study completed:	N/A
Floodplain shown on drawings:	N/A
FIRM Map Number(s) for site:	54095C0175C
Acres/ages of construction in floodplain:	N/A



The Artero, construction under no. 24333 and 24334 approval shall have been prepared on or under the West Virginia Code of Professional Ethics. One of the conditions of this approval is that all the work shown on the drawings shall be in accordance with the laws and regulations of this State.

Scale: As Noted  
 Date of Issue: 10/16/2015  
 Drawn by: [Name]  
 Checked by: [Name]  
 Date of Issue: 10/16/2015  
 Scale: As Noted  
 Drawn by: [Name]  
 Checked by: [Name]

**MISS UTILITY OF WEST VIRGINIA**  
 1-800-245-4848  
 800 10th Street East  
 Charleston, WV 25301  
 304.262.5400

**811**  
 Know what's below.  
 Call before you dig.

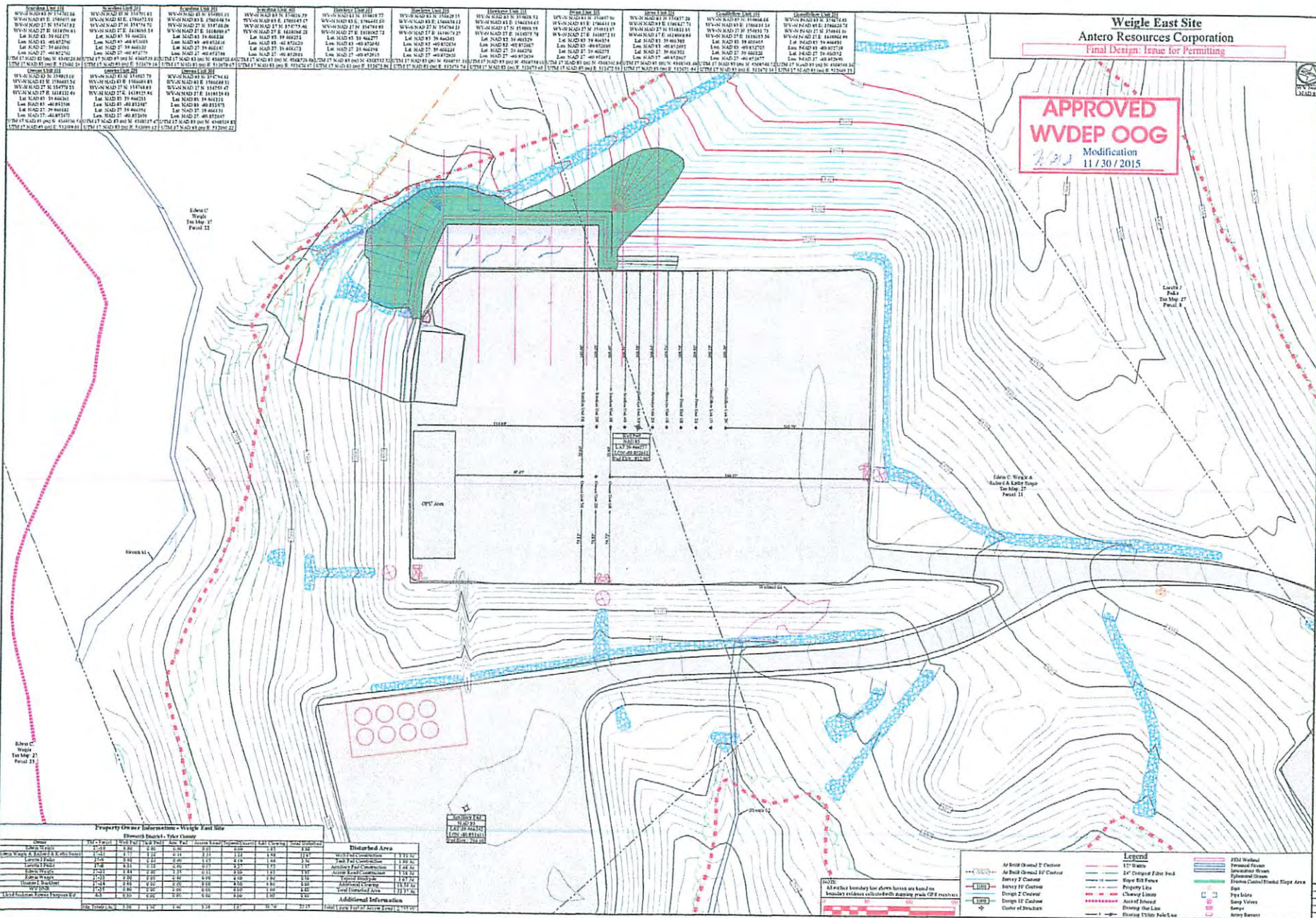
COVER SHEET  
**WEIGLE EAST SITE**  
**PAD MODIFICATION**  
 TYLER COUNTY, WEST VIRGINIA

Date: 10/16/2015  
 Scale: AS NOTED  
 Drawn by: [Name]  
 Pile No.: [Name]  
 Plot: COVER



**Weigle East Site**  
**Antero Resources Corporation**  
 Final Design: Issue for Permitting

**APPROVED WVDEP OOG**  
 Modification  
 11/30/2015



Station	Station	Station	Station	Station	Station	Station	Station	Station	Station
WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00
WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00
WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00
WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00	WV-1000+00

Owner	Area (Acres)	Area (Sq Ft)	Area (Sq Ft)	Area (Sq Ft)	Area (Sq Ft)	Area (Sq Ft)	Area (Sq Ft)	Area (Sq Ft)	Area (Sq Ft)
State of West Virginia	1.12	77,424	77,424	77,424	77,424	77,424	77,424	77,424	77,424
Antero Resources Corporation	1.12	77,424	77,424	77,424	77,424	77,424	77,424	77,424	77,424
Other Owners	...	...	...	...	...	...	...	...	...

Symbol	Description	Symbol	Description	Symbol	Description
[Symbol]	17' Stone	[Symbol]	24" Diameter Fibre Stack	[Symbol]	2014 Method
[Symbol]	Property Line	[Symbol]	Change Limits	[Symbol]	Prop. Lines
[Symbol]	Change Limits	[Symbol]	Change Limits	[Symbol]	Prop. Lines
[Symbol]	Change Limits	[Symbol]	Change Limits	[Symbol]	Prop. Lines

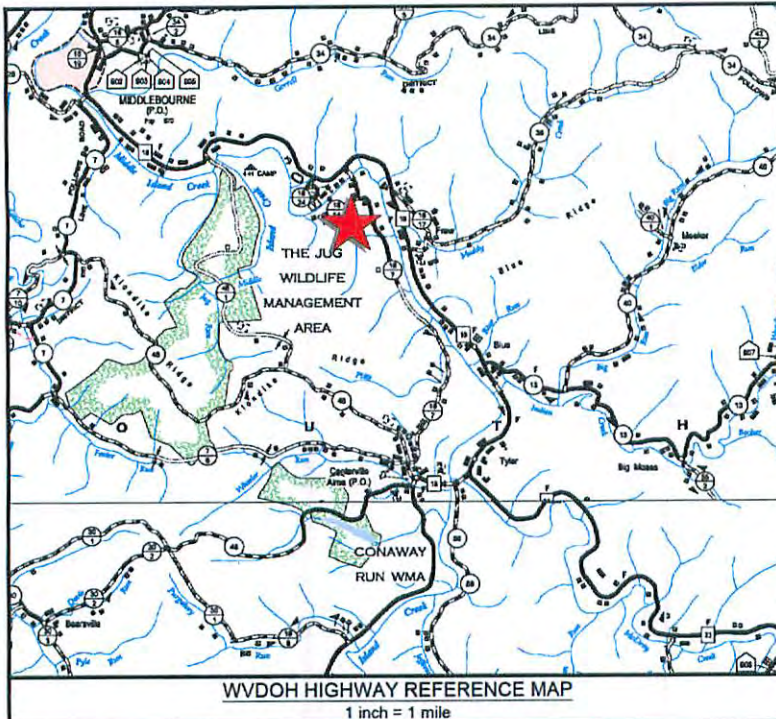


THIS DOCUMENT  
 PREPARED FOR  
 ANTERO RESOURCES  
 CORPORATION



**Weigle East Site**  
**Well Pad Modification**  
 Ellsworth District  
 Tyler County, WV

Date: 11/30/2015  
 Scale: As Shown  
 Designer: J. [Name]  
 Checker: [Name]  
 Page 1 of 7



# FINAL DESIGN: ISSUE

## ANTERO RESOURCES CORPORATION WEIGLE EAST PAD MODIFICATION

ELLSWORTH DISTRICT, TYLER  
SHIRLEY 7.5 MINUTE QUADRANGLE

**GENERAL DESCRIPTION**

WEIGLE EAST PAD MODIFICATION

**PROJECT CONTACTS**

**OPERATOR:**

ANTERO RESOURCES CORPORATION  
535 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE: (304) 842-4100  
FAX: (304) 842-4102  
www.anteroresources.com

**PROJECT COORDINATOR :**

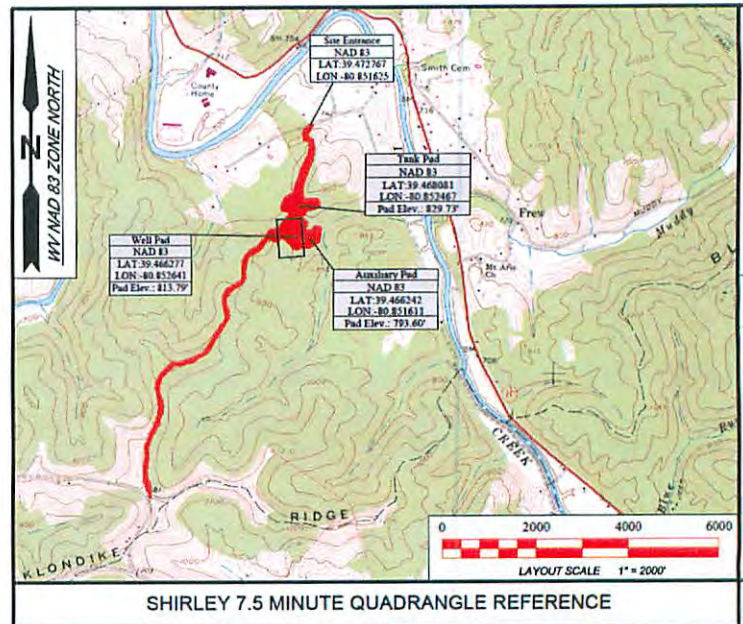
ROBERT WIRKS  
DESIGN MANAGER  
PHONE: (304) 842-4100  
CELL: (304) 627-7405  
FAX: (304) 842-4102  
EMAIL: r.wirks@anteroresources.com

**CONSTRUCTION COORDINATOR :**

ELI WAGNER  
ENVIRONMENTAL ENGINEER  
PHONE: (304) 842-4068  
CELL: (304) 476-9770  
FAX: (304) 842-4102  
EMAIL: ewagner@anteroresources.com

JOHN KAWCAK  
OPERATIONS SUPERINTENDENT  
CELL: (817) 368-1553  
FAX: (304) 842-4102  
EMAIL: jkawcak@anteroresources.com

Received  
Office of Oil & Gas  
NOV 06 2015

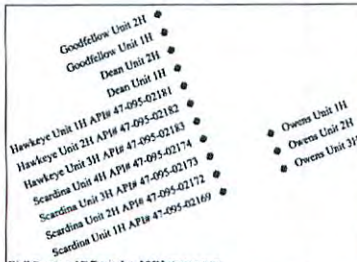


**WELL LOCATION RESTRICTIONS**

ALL PAD AND FRACTURE PIT CONSTRUCTION COMPLIES WITH THE FOLLOWING RESTRICTIONS.

- \*250' FROM AN EXISTING WELL OR DEVELOPED SPRING USED FOR HUMAN OR DOMESTIC ANIMALS.
- \*625' FROM AN OCCUPIED DWELLING OR BARN GREATER THAN 2,500 SF USED FOR POULTRY OR DAIRY MEASURED FROM THE CENTER OF THE PAD.
- \*100' FROM THE EDGE OF DISTURBANCE TO WETLANDS, PERENNIAL STREAMS, NATURAL OR ARTIFICIAL LAKE, POND OR RESERVOIR.
- \*300' FROM THE EDGE OF DISTURBANCE TO A NATURALLY REPRODUCING TROUT STREAM.
- \*1,000' OF A SURFACE OR GROUND WATER INTAKE TO A PUBLIC WATER SUPPLY.

(WELL LOCATION RESTRICTIONS OF WV CODE 22-6A-12)



Scardina Unit 1H	Scardina Unit 2H	Scardina Unit 3H	Scardina Unit 4H	Hawkley Unit 2H	Hawkley Unit 3H	Hawkley Unit 4H
WV-N NAD 83 N: 354782.26 WV-N NAD 83 E: 1586655.48 WV-N NAD 27 N: 354747.32 WV-N NAD 27 E: 1618096.61 Lat. NAD 83: 39.466175 Lon. NAD 83: -80.852590 Lat. NAD 27: 39.466296 Lon. NAD 27: -80.852762 UTM 17 NAD 83 (m) N: 4368520.96 UTM 17 NAD 83 (m) E: 512680.29	WV-N NAD 83 N: 354791.63 WV-N NAD 83 E: 1586652.01 WV-N NAD 27 N: 354756.70 WV-N NAD 27 E: 1618093.14 Lat. NAD 83: 39.466226 Lon. NAD 83: -80.852603 Lat. NAD 27: 39.466147 Lon. NAD 27: -80.852775 UTM 17 NAD 83 (m) N: 4368523.80 UTM 17 NAD 83 (m) E: 512679.18	WV-N NAD 83 N: 354801.01 WV-N NAD 83 E: 1586648.54 WV-N NAD 27 N: 354766.08 WV-N NAD 27 E: 1618089.67 Lat. NAD 83: 39.466226 Lon. NAD 83: -80.852616 Lat. NAD 27: 39.466147 Lon. NAD 27: -80.852788 UTM 17 NAD 83 (m) N: 4368526.64 UTM 17 NAD 83 (m) E: 512678.07	WV-N NAD 83 N: 354810.39 WV-N NAD 83 E: 1586645.07 WV-N NAD 27 N: 354775.46 WV-N NAD 27 E: 1618086.20 Lat. NAD 83: 39.466252 Lon. NAD 83: -80.852629 Lat. NAD 27: 39.466173 Lon. NAD 27: -80.852801 UTM 17 NAD 83 (m) N: 4368529.48 UTM 17 NAD 83 (m) E: 512676.97	WV-N NAD 83 N: 354819.77 WV-N NAD 83 E: 1586641.80 WV-N NAD 27 N: 354784.83 WV-N NAD 27 E: 1618082.72 Lat. NAD 83: 39.466277 Lon. NAD 83: -80.852641 Lat. NAD 27: 39.466198 Lon. NAD 27: -80.852813 UTM 17 NAD 83 (m) N: 4368532.32 UTM 17 NAD 83 (m) E: 512675.86	WV-N NAD 83 N: 354829.15 WV-N NAD 83 E: 1586638.12 WV-N NAD 27 N: 354794.21 WV-N NAD 27 E: 1618079.25 Lat. NAD 83: 39.466303 Lon. NAD 83: -80.852654 Lat. NAD 27: 39.466234 Lon. NAD 27: -80.852826 UTM 17 NAD 83 (m) N: 4368535.16 UTM 17 NAD 83 (m) E: 512674.76	WV-N NAD 83 N: 354838.52 WV-N NAD 83 E: 1586634.85 WV-N NAD 27 N: 354803.59 WV-N NAD 27 E: 1618075.78 Lat. NAD 83: 39.466329 Lon. NAD 83: -80.852667 Lat. NAD 27: 39.466250 Lon. NAD 27: -80.852839 UTM 17 NAD 83 (m) N: 4368538.00 UTM 17 NAD 83 (m) E: 512673.65
Dean Unit 1H	Dean Unit 2H	Goodfellow Unit 1H	Goodfellow Unit 2H	Owens Unit 1H	Owens Unit 2H	Owens Unit 3H
WV-N NAD 83 N: 354847.90 WV-N NAD 83 E: 1586631.97 WV-N NAD 27 N: 354811.18 WV-N NAD 27 E: 1618072.31 Lat. NAD 83: 39.466354 Lon. NAD 83: -80.852680 Lat. NAD 27: 39.466375 Lon. NAD 27: -80.852852 UTM 17 NAD 83 (m) N: 4368540.84 UTM 17 NAD 83 (m) E: 512672.55	WV-N NAD 83 N: 354857.28 WV-N NAD 83 E: 1586627.71 WV-N NAD 27 N: 354822.35 WV-N NAD 27 E: 1618068.34 Lat. NAD 83: 39.466380 Lon. NAD 83: -80.852693 Lat. NAD 27: 39.466380 Lon. NAD 27: -80.852865 UTM 17 NAD 83 (m) N: 4368543.68 UTM 17 NAD 83 (m) E: 512671.44	WV-N NAD 83 N: 354868.66 WV-N NAD 83 E: 1586624.24 WV-N NAD 27 N: 354831.73 WV-N NAD 27 E: 1618065.36 Lat. NAD 83: 39.466405 Lon. NAD 83: -80.852705 Lat. NAD 27: 39.466352 Lon. NAD 27: -80.852877 UTM 17 NAD 83 (m) N: 4368546.52 UTM 17 NAD 83 (m) E: 512670.34	WV-N NAD 83 N: 354876.03 WV-N NAD 83 E: 1586620.76 WV-N NAD 27 N: 354841.10 WV-N NAD 27 E: 1618061.89 Lat. NAD 83: 39.466431 Lon. NAD 83: -80.852718 Lat. NAD 27: 39.466352 Lon. NAD 27: -80.852890 UTM 17 NAD 83 (m) N: 4368549.36 UTM 17 NAD 83 (m) E: 512669.23	WV-N NAD 83 N: 354813.16 WV-N NAD 83 E: 1586611.36 WV-N NAD 27 N: 354778.85 WV-N NAD 27 E: 1618122.49 Lat. NAD 83: 39.466261 Lon. NAD 83: -80.852500 Lat. NAD 27: 39.466182 Lon. NAD 27: -80.852659 UTM 17 NAD 83 (m) N: 4368530.51 UTM 17 NAD 83 (m) E: 512688.01	WV-N NAD 83 N: 354803.79 WV-N NAD 83 E: 1586604.83 WV-N NAD 27 N: 354768.85 WV-N NAD 27 E: 1618125.96 Lat. NAD 83: 39.466235 Lon. NAD 83: -80.852487 Lat. NAD 27: 39.466152 Lon. NAD 27: -80.852659 UTM 17 NAD 83 (m) N: 4368524.67 UTM 17 NAD 83 (m) E: 512689.12	WV-N NAD 83 N: 354794.41 WV-N NAD 83 E: 1586608.31 WV-N NAD 27 N: 354759.47 WV-N NAD 27 E: 1618129.43 Lat. NAD 83: 39.466210 Lon. NAD 83: -80.852475 Lat. NAD 27: 39.466131 Lon. NAD 27: -80.852647 UTM 17 NAD 83 (m) N: 4368524.67 UTM 17 NAD 83 (m) E: 512690.22

01/15/2016

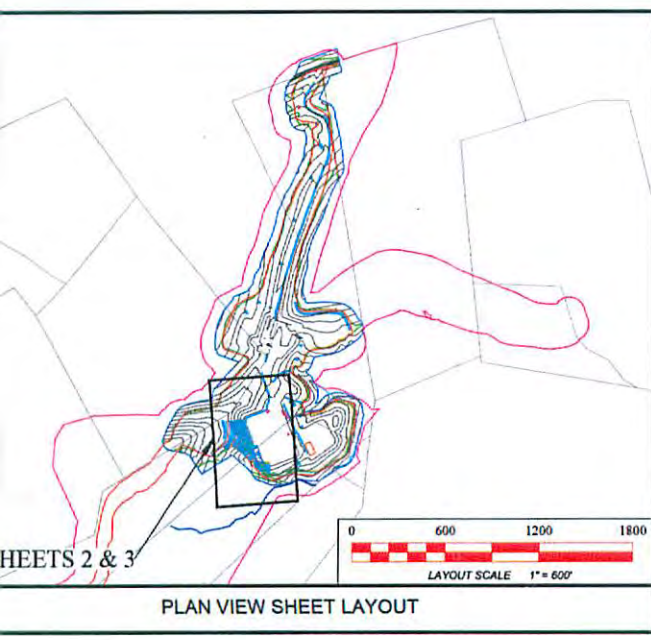
95-02325

# FOR PERMITTING SOURCES ST SITE ICATION

OUNTY, WEST VIRGINIA  
UAD MAP



WV COUNTY REFERENCE MAP



SHEETS 2 & 3

PLAN VIEW SHEET LAYOUT

**ENGINEER / SURVEYOR**

KELLY SURVEYING PLLC.  
P.O. BOX 254  
DAILEY, WV 26259  
PHONE: (304) 338-6985  
FAX: (304) 304-338-6081

**PROJECT MANAGER**

JOHN P. SEE PE 6051  
KENNETH KELLY PSSU 973  
KIRK WAGNER EIT

WEST VIRGINIA STATE COORDINATE SYSTEM  
ELEVATION IN FEET  
EASTING IN METERS  
NORTHING IN METERS  
NAD 83 PROJECTIONS



**GEOTECHNICAL:**

GEOTECHNICAL INVESTIGATION AS PROVIDED BY KLEINFELDER  
DATED OCTOBER 4, 2013

**ENVIRONMENTAL:**

WETLAND DELINEATIONS AS PROVIDED BY ALLSTAR ECOLOGY  
DATED MAY 24, 2013

**TOPOGRAPHIC INFORMATION:**

THE TOPOGRAPHIC INFORMATION SHOWN HEREIN IS  
BASED ON AERIAL PHOTOGRAPHY BY BLUE MOUNTAIN AERIAL  
MAPPING, BURTON, WV

Floodplain Conditions	
Do site construction activities take place in a floodplain:	NO
Permit needed from county floodplain coordinator:	NO
Flood Hazard Zone	NO
HEC-RAS Study completed:	N/A
Floodplain shown on drawings:	N/A
FIRM Map Number(s) for site:	54095C0175C
Acres of construction in floodplain:	N/A

NO.	INDEX TO SHEETS
COVER	COVER
N1	GENERAL NOTES
N2	EROSION & SEDIMENT CONTROL NOTES
N3	GENERAL CONSTRUCTION NOTES
D1	EROSION & SEDIMENT CONTROL DETAILS
D2	EROSION & SEDIMENT CONTROL DETAILS
D3	TYPICAL DETAILS
D4	TYPICAL DETAILS
D5	REVEGETATION CHARTS
1	EXISTING SITE PLAN OVERVIEW
2	EXISTING SITE PLAN VIEW
3	PAD MODIFICATION DESIGN PLAN VIEW
4	SECTIONS SHEET
5	SCHEDULE OF QUANTITIES AND VOLUMES
6	WELL OFFSET DIMENSIONS
7	SITE RECLAMATION

**Kelly S Surveying**  
P.O. Box 254  
Dailey, WV 26259  
(304) 338-6985

REVISIONS	DATE
Design	10/16/2015

**Antero Resources**

THIS DOCUMENT  
PREPARED FOR  
ANTERO RESOURCES  
CORPORATION

COVER SHEET  
WEIGLE EAST SITE  
PAD MODIFICATION  
ELLSWORTH DISTRICT,  
TYLER COUNTY, WEST VIRGINIA



**Design Certification**  
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 14CR308.  
All Plans, Sheets, and/or Reference Diagrams included in this design constitutes a complete set of plans. A complete set of plans is necessary to construct the site in accordance with the design.  
John P. See RPE 0051  
Kelly Surveying PLLC  
COA, CD4132-06  
Date: 10/16/2015

**MISS UTILITY OF WEST VIRGINIA**  
1-800-245-4848  
West Virginia State Law  
Section XIV, Chapter 24-C requires that you dig in the state of West Virginia. IT'S THE LAW



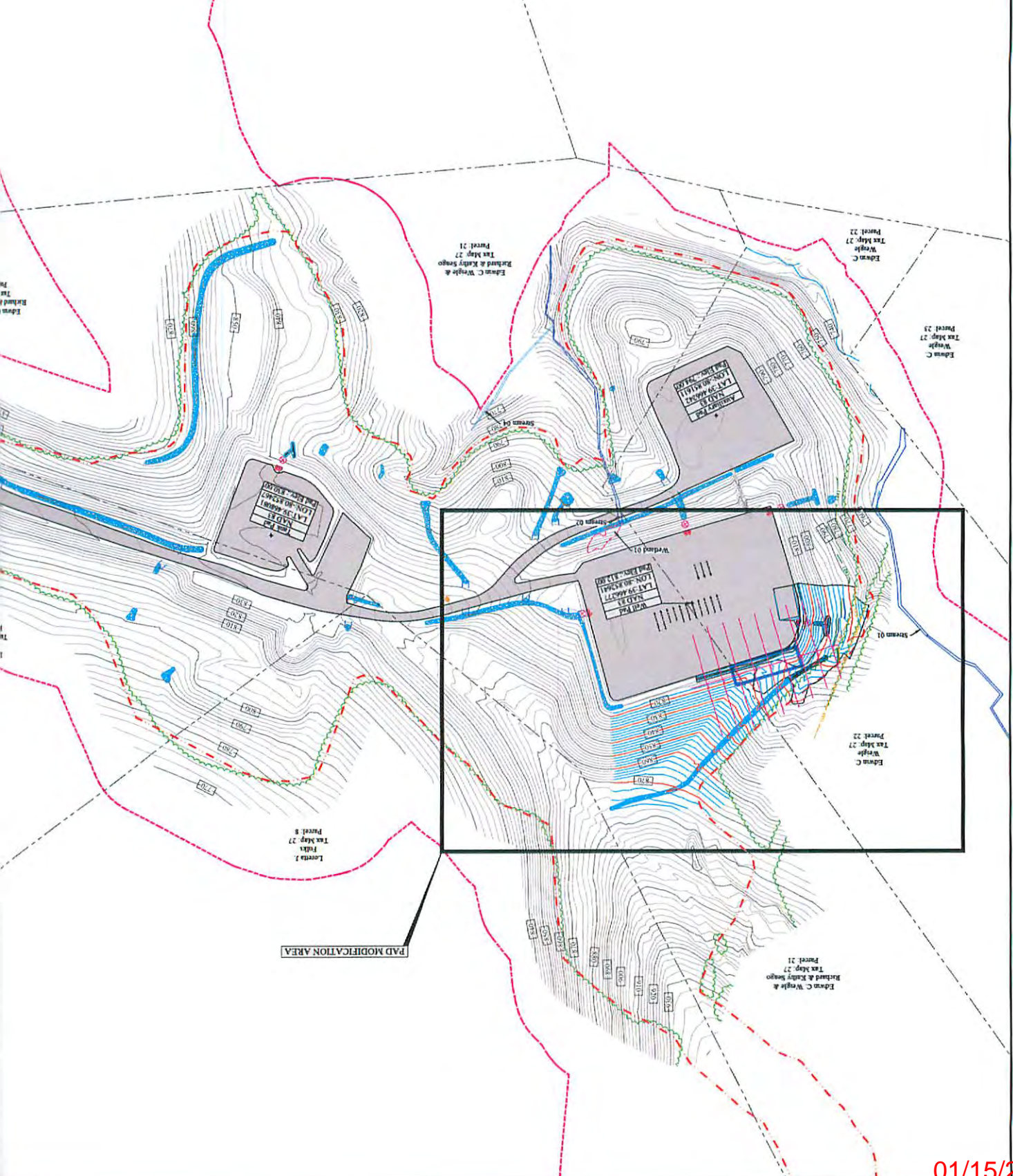
Date: 10/16/2015  
Scale: AS NOTED  
Designed By: KW  
File No: 95-02325  
Page: 1  
Cover

01/15/2016

Owner	134 - Parcel	Well Pad	1 Tank Pad	Access Road	Topsoil	Forest	Add	Clearing	Total	Disturbed Area
Edman Wright	27.10	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01
Edman Wright & Richard & Kathy Sengco	27.31	1.77	1.18	0.11	2.14	1.21	4.48	12.87	12.87	12.87
Loirena Ficks	27.8	0.00	0.44	0.00	1.05	0.19	1.48	1.93	1.93	1.93
Edman Wright	27.23	1.44	0.00	0.11	1.35	0.00	0.00	1.03	1.03	1.03
Edman Wright	27.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WV TRN	27.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thomas I. Binkhart	27.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lloyd Seckman Bruce Proprietor Est	4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total (Ac)</b>	<b>106</b>	<b>1.44</b>	<b>0.44</b>	<b>0.11</b>	<b>3.18</b>	<b>1.40</b>	<b>6.48</b>	<b>10.70</b>	<b>10.70</b>	<b>10.70</b>
<b>Total Lower Feet of Access Road</b>	<b>27.17</b>									

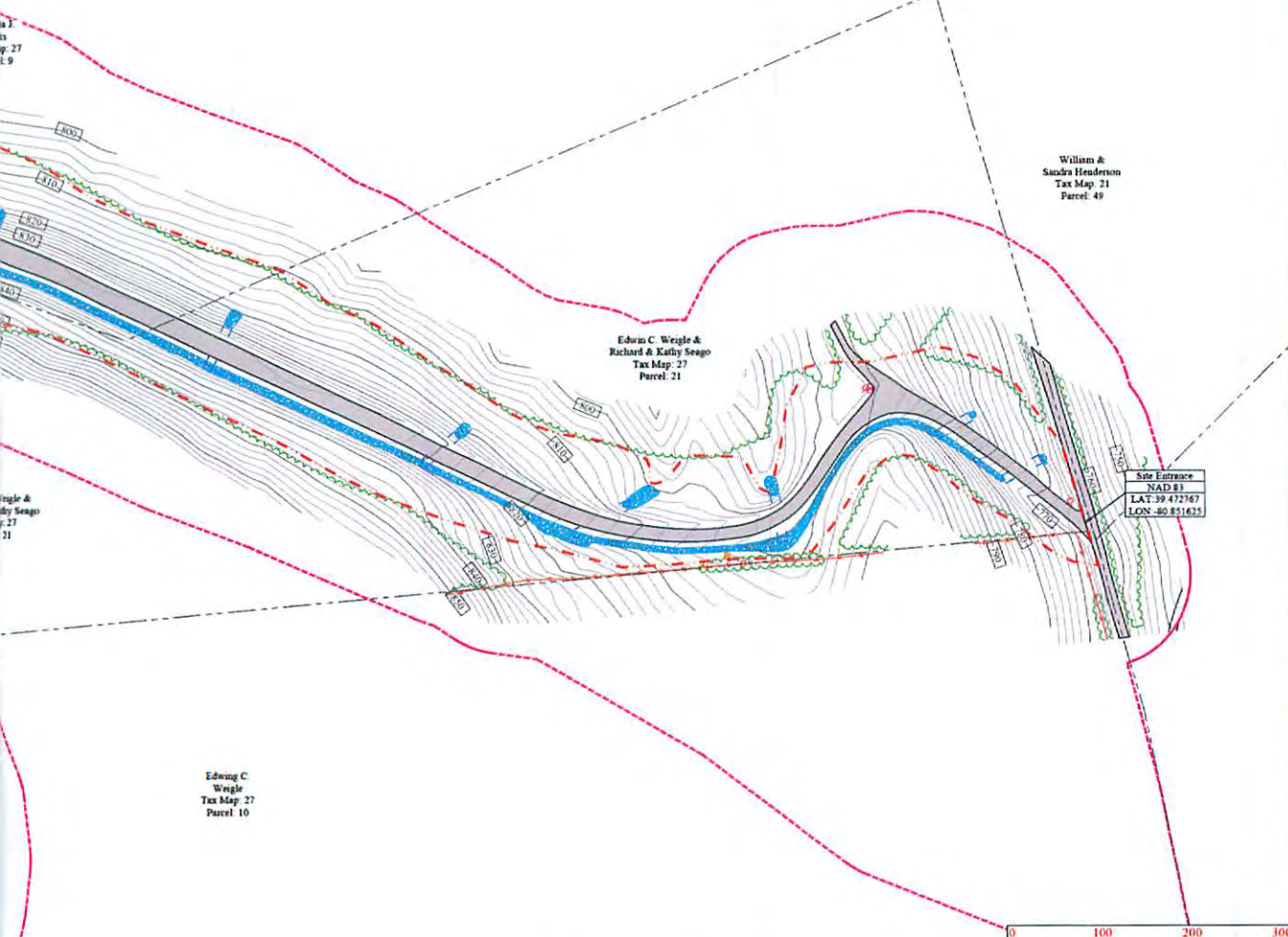
Property Owner Information - Wright East Site  
 Edman Wright & Richard & Kathy Sengco  
 Tax Map 27  
 Parcel 21

Additional Information  
 Total Disturbed Area 10.70 Ac  
 Additional Clearing 6.48 Ac  
 Topsoil Stockpile 1.03 Ac  
 Access Road Construction 1.93 Ac  
 Auxiliary Pad Construction 1.48 Ac  
 Tank Pad Construction 1.35 Ac  
 Well Pad Construction 1.21 Ac  
 Total Lower Feet of Access Road 27.17



95-02325

**Weigle East Site**  
**Antero Resources Corporation**  
**Final Design: Issue for Permitting**



THIS DOCUMENT  
 PREPARED FOR  
 ANTERO RESOURCES  
 CORPORATION

**Kelly Surveying**  
 1000 Pine Gap  
 Dulles, WV 25838  
 304-266-2222

Existing Site Plan Overview  
**Weigle East Site**  
 Pad Modification  
 Ellsworth District, Tyler County, WV

Legend	
	Orange Construction Fence
	24" Fiber Sock
	Super Silt Fence
	Property Line
	Clearing Limits
	Area of Interest
	Existing Gas Line
	Existing Utility Pole/Line
	PEM Wetland
	Perennial Stream
	Intermittent Stream
	Ephemeral Stream
	Sign
	Pipe Inlets
	Sump Valves
	Sumps
	Jersey Barriers

Date	Revision

Date: 10/16/2015  
 Scale: As Shown  
 Drawn By: JRM  
 Checked By: JRM  
 Sheet 1 of 7

01/14/2016

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**VOLUNTARY STATEMENT OF NO OBJECTION**

**Instructions to Persons Named on Page WW-6A**

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

**Comment and Waiver Provisions**

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, \_\_\_\_\_, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>512,669m</u>
County: <u>Tyler</u>	UTM NAD 83 Northing: <u>4,368,549m</u>
District: <u>Ellsworth</u>	Public Road Access: <u>CR 18/14</u>
Quadrangle: <u>Shirley 7.5'</u>	Generally used farm name: <u>Edwin C. Weigle</u>
Watershed: <u>Outlet Middle Island Creek</u>	

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p align="center"><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p align="center"><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p align="center"><b>Received</b></p> <p align="center"><b>Office of Oil &amp; Gas</b></p> <p>Signature: _____</p> <p>Date: <u>NOV 06 2015</u></p>
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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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).