



west virginia department of environmental protection

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

April 07, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-3305877, 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: APRIL UNIT 2H

Farm Name: BLAND, HUBERT JR & LORENA

API Well Number: 47-3305877

Permit Type: Horizontal 6A Well

Date Issued: 04/07/2016

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

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.

WW-6B
(04/15)

API NO. 47-033 - 05877
OPERATOR WELL NO. April Unit 2H
Well Pad Name: Hubert Pad

01/04/16

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

1) Well Operator: Antero Resources Corporation 494488557 033- Harris Tenmile Salem 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: April Unit 2H Well Pad Name: Hubert Pad

3) Farm Name/Surface Owner: Hubert Jr. & Lorena Bland Public Road Access: CR 50/6

4) Elevation, current ground: 1374' Elevation, proposed post-construction: 1374'

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

(b) If Gas Shallow Deep
Horizontal

*SDW
1/20/2016*

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7600' TVD, Anticipated Thickness- 50 feet, Associated Pressure- 3200#

8) Proposed Total Vertical Depth: 7600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18200' MD

11) Proposed Horizontal Leg Length: 9950'

12) Approximate Fresh Water Strata Depths: 391'

13) Method to Determine Fresh Water Depths: Norris Unit 1H (API #47-033-05699) on same pad.

14) Approximate Saltwater Depths: None Identified

15) Approximate Coal Seam Depths: 1737'

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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Department of _____

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#	40'	40'	CTS, 38 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	445'	445' *See #19	CTS, 618 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2430'	2430'	CTS, 989 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	18200'	18200'	CTS, 4618 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

1/20/2016

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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WV Department of
Environmental Protection
04/08/2016

WW-6B
(10/14)

API NO. 47-033 - 05871
OPERATOR WELL NO. Apri Unit 2H
Well Pad Name: Hubert Pad

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

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when 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.

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): 20.73 Existing Acres

22) Area to be disturbed for well pad only, less access road (acres): 3.22 Existing Acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

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

Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

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WV Department of Environmental Protection
04/08/2016

WW-9
(2/15)

API Number 47 - 033 - 05877
Operator's Well No. April Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation OP Code 494488557

Watershed (HUC 10) Tenmile Creek Quadrangle Salem 7.5'

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Drilling and Flowback Fluids and Cuttings

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 60 mil.

Proposed Disposal Method For Treated Pit Wastes:

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

*SDW
1/20/2016*

Will closed loop system be used? If so, describe: Yes

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

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

Additives to be used in drilling medium? Please See Attachment

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

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

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

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

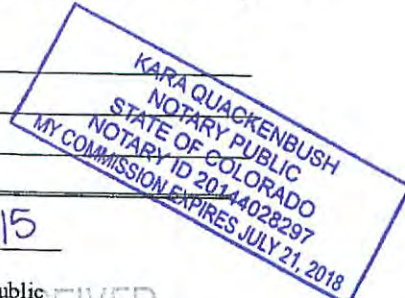
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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

Company Official Signature *Cole Kilstrom*

Company Official (Typed Name) Cole Kilstrom

Company Official Title Environmental & Regulatory Manager



Subscribed and sworn before me this 29th day of December, 20 15

Kara Quackenbush Notary Public

My commission expires July 21, 2018

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Department of Environmental Protection 04/08/2016

33-05877

Form WW-9

Operator's Well No. April Unit 2H

Antero Resources Corporation

Proposed Revegetation Treatment: Acres Disturbed 20.73 existing acres Prevegetation pH _____

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

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

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Existing Drill Pad (3.22) + Existing Spoil Piles (6.68) + Existing Access Road (5.6) + Existing Frac Pit Access Road (1.71) + Existing Frac Pit (3.52) = 20.73 Existing Acres

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	45	Tall Fescue	45
Perennial Rye Grass	20	Perennial Rye Grass	20
*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: [Signature]

Comments: Existing pad

Title: OOG Inspector Date: 1/20/2016

Field Reviewed? Yes No

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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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04/08/2016



911 Address
3528 Raccoon Run Road
Salem, WV 26426

Well Site Safety Plan

Antero Resources

Well Name: April Unit 1H, April Unit 2H, Ford Unit 1H, Ford Unit 2H, Lee Unit 1H, Lee Unit 2H, Nellie Unit 1H, Nellie Unit 2H, Norris Unit 1H, Norris Unit 2H

SDW
1/20/2016

Pad Location: HUBERT PAD
 Harrison County/Tenmile District

GPS Coordinates: Lat 39°15'12.65"/Long -80°33'36.70" (NAD83)

Driving Directions:

From the intersection of I-50 and 1-79, go 14.7 miles towards the town of Salem. Once near the town of Salem, head south on County Rd 50/73 for 1.2 miles. Continue onto South St for 0.2 miles. Continue onto Patterson Road for 0.2 miles. Continue onto Co Route 29/Patterson Fork Rd for 0.2 miles. Continue onto Salem Country Club Rd for 0.4 miles. Salem Country Club Rd turns slightly right and becomes Co Route 29/Patterson Fork Rd for 0.9 miles. Turn left onto Co Route 29/2 for 1 mile. Take a sharp right onto Raccoon Run Rd for 0.2 miles. Lease road will be on your right.

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

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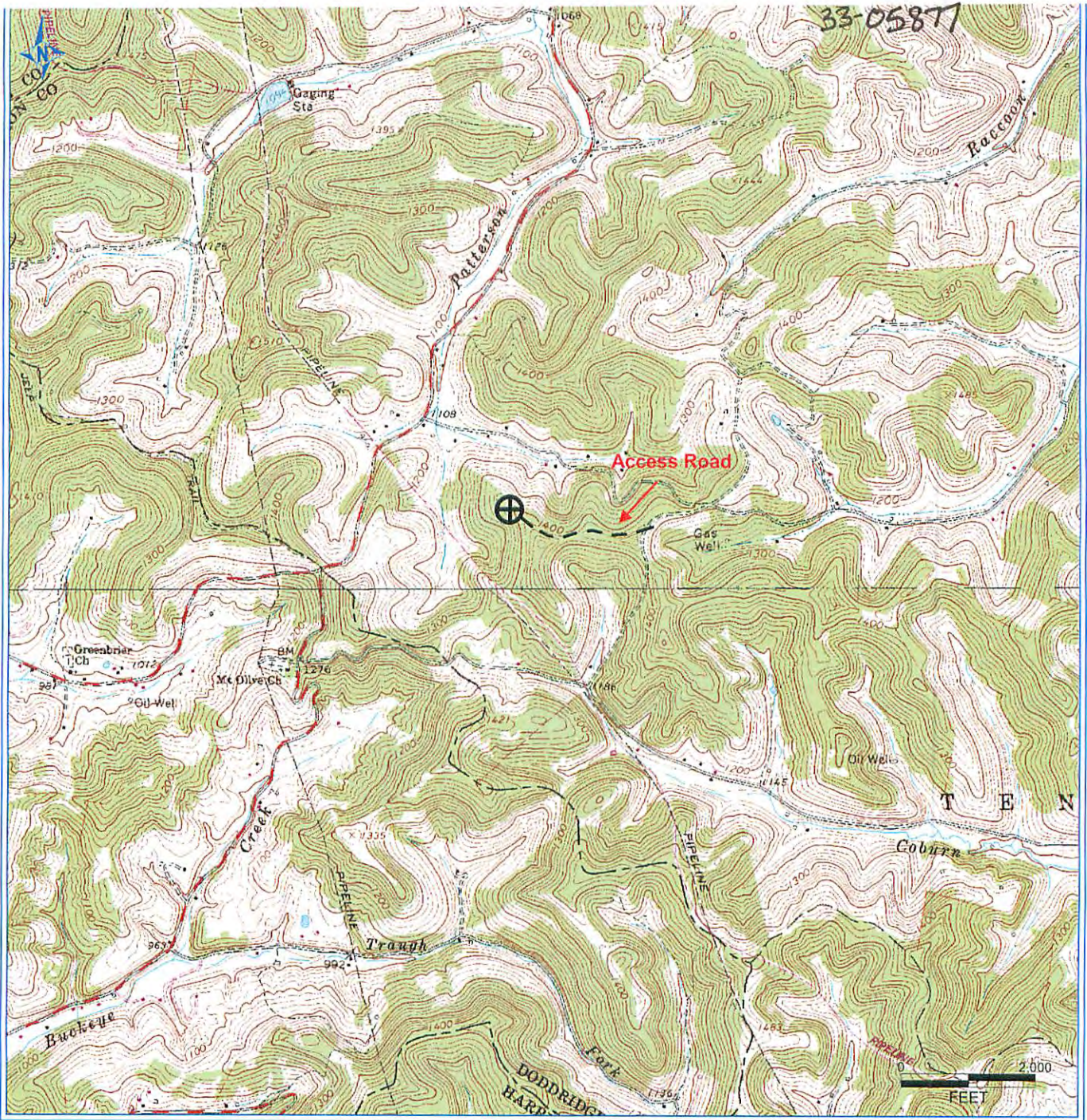
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WV Department of
 Environmental Protection

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04/08/2016



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Antero Resources Corporation

APPALACHIAN BASIN

April Unit 2H

Doddridge County

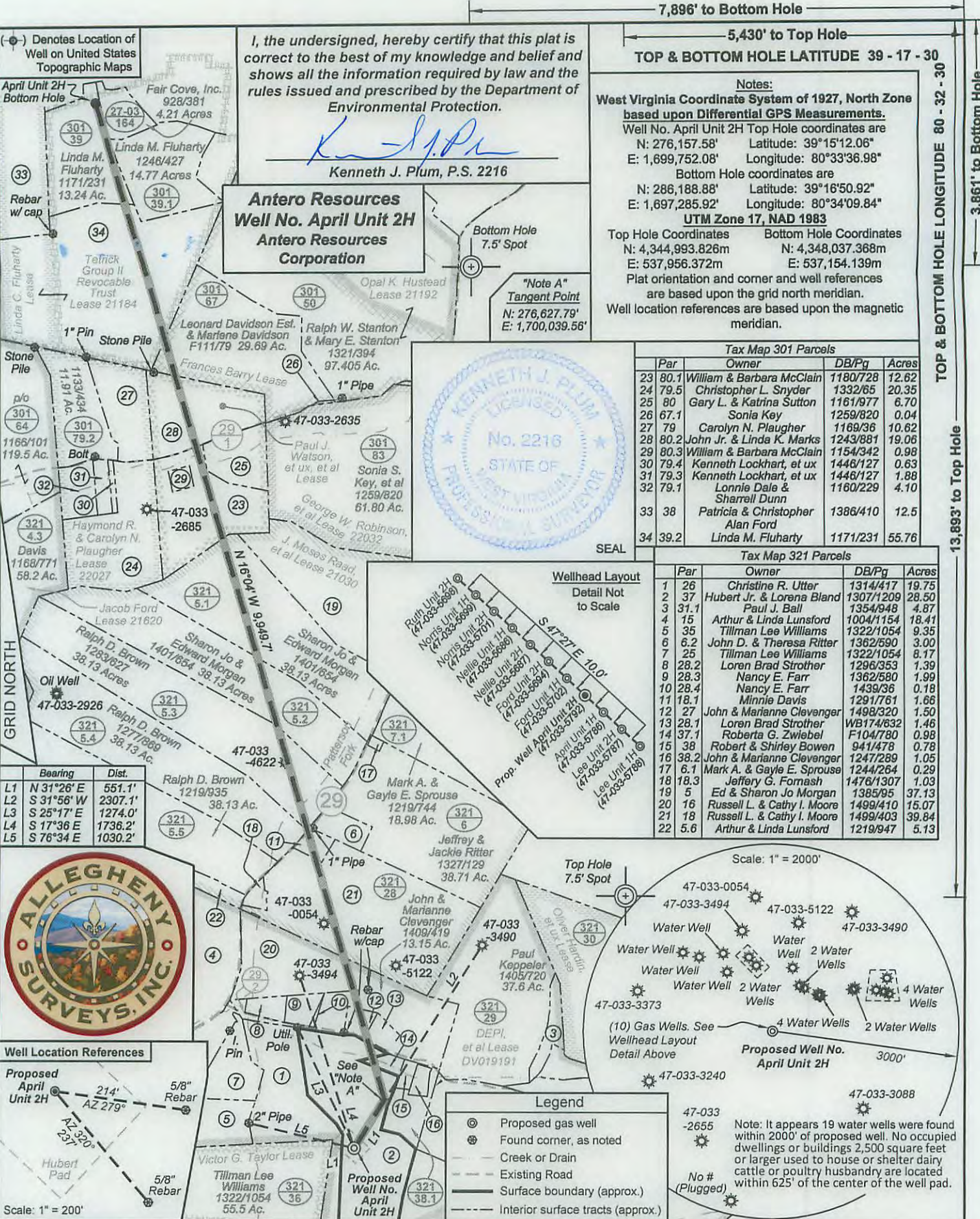


REMARKS

QUADRANGLE: SALEM
 WATERSHED: TENMILE CREEK
 DISTRICT: TENMILE

04/08/2016

Date: 9/18/2012



FILE NO: 10-36-TM-13
 DRAWING NO: April 2H Well Plat Rev 2
 SCALE: 1" = 1200'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Bridgeport, WV

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

DATE: December 28 2015
 OPERATOR'S WELL NO. April Unit 2H
 API WELL NO
 47 - 033 - 05877HUA
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Original Grade: 1394' Existing Grade: 1374' WATERSHED: Tenmile Creek QUADRANGLE: Salem
 DISTRICT: Tenmile COUNTY: Harrison
 SURFACE OWNER: Hubert Jr. & Lorena Bland Frances Barry ACREAGE: 28.50 108; 70.866
 ROYALTY OWNER: DEPI, et al; Tetrick Group II Revocable Trust; J. Moses Raad, et al LEASE NO: DV019191; 21030 ACREAGE: 283; 447; 40
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,200' MD

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

(+) Denotes Location of Well on United States Topographic Maps

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

Kenneth J. Plum
 Kenneth J. Plum, P.S. 2216

Antero Resources
Well No. April Unit 2H
Antero Resources Corporation

7,896' to Bottom Hole
 5,430' to Top Hole
TOP & BOTTOM HOLE LATITUDE 39 - 17 - 30

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. April Unit 2H Top Hole coordinates are
 N: 276,157.58' Latitude: 39°15'12.06"
 E: 1,699,752.08' Longitude: 80°33'36.98"
 Bottom Hole coordinates are
 N: 286,188.88' Latitude: 39°16'50.92"
 E: 1,697,285.92' Longitude: 80°34'09.84"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,344,993.826m N: 4,348,037.368m
 E: 537,956.372m E: 537,154.139m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Tax Map 301 Parcels

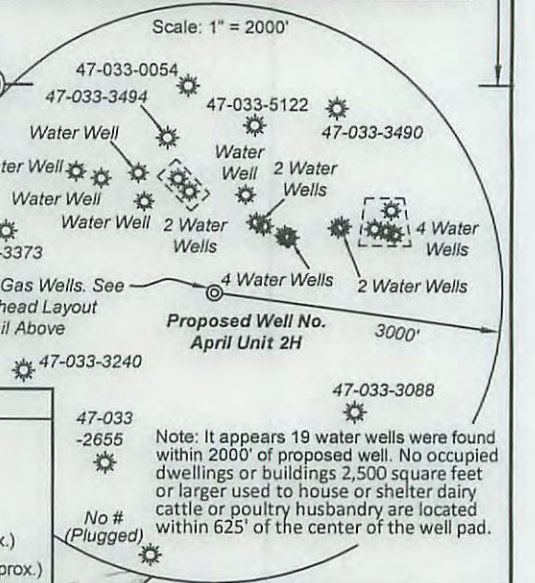
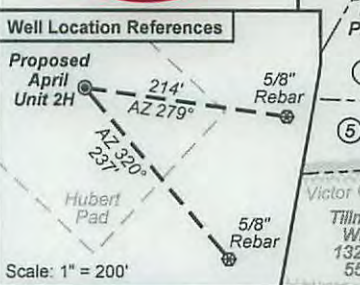
Par	Owner	DB/Pg	Acres
23	80.1 William & Barbara McClain	1180/728	12.62
24	79.5 Christopher L. Snyder	1332/65	20.35
25	80 Gary L. & Katrina Sutton	1161/977	6.70
26	67.1 Sonia Key	1259/820	0.04
27	79 Carolyn N. Plaugher	1169/36	10.62
28	80.2 John Jr. & Linda K. Marks	1243/881	19.06
29	80.3 William & Barbara McClain	1154/342	0.98
30	79.4 Kenneth Lockhart, et ux	1446/127	0.63
31	79.3 Kenneth Lockhart, et ux	1446/127	1.88
32	79.1 Lonnie Dale & Sharrell Dunn	1160/229	4.10
33	38 Patricia & Christopher Alan Ford	1386/410	12.5
34	39.2 Linda M. Fluharty	1171/231	55.76

Tax Map 321 Parcels

Par	Owner	DB/Pg	Acres
1	26 Christine R. Utter	1314/417	19.75
2	37 Hubert Jr. & Lorena Bland	1307/1209	28.50
3	31.1 Paul J. Ball	1354/948	4.87
4	15 Arthur & Linda Lunsford	1004/1154	18.41
5	35 Tillman Lee Williams	1322/1054	9.35
6	6.2 John D. & Theresa Ritter	1362/590	3.00
7	25 Tillman Lee Williams	1322/1054	8.17
8	28.2 Loren Brad Strother	1296/353	1.39
9	28.3 Nancy E. Farr	1362/580	1.99
10	28.4 Nancy E. Farr	1439/36	0.18
11	18.1 Minnie Davis	1291/761	1.66
12	27 John & Marianne Clevenger	1498/320	1.50
13	28.1 Loren Brad Strother	WB174/632	1.46
14	37.1 Roberta G. Zwiebel	F104/780	0.98
15	38 Robert & Shirley Bowen	941/478	0.78
16	38.2 John & Marianne Clevenger	1247/289	1.05
17	6.1 Mark A. & Gayle E. Sprouse	1244/264	0.29
18	18.3 Jeffery G. Fomash	1476/1307	1.03
19	5 Ed & Sharon Jo Morgan	1385/95	37.13
20	16 Russell L. & Cathy I. Moore	1499/410	15.07
21	18 Russell L. & Cathy I. Moore	1499/403	39.84
22	5.6 Arthur & Linda Lunsford	1219/947	5.13

Well Location References

Bearing	Dist.
L1	N 31°26' E 551.1'
L2	S 31°56' W 2307.1'
L3	S 26°17' E 1274.0'
L4	S 17°36' E 1736.2'
L5	S 76°34' E 1030.2'



Wellhead Layout Detail Not to Scale

Scale: 1" = 2000'

Proposed Well No. April Unit 2H

3000'

Note: It appears 19 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

Legend

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

7,896' to Bottom Hole

5,430' to Top Hole

TOP & BOTTOM HOLE LATITUDE 39 - 17 - 30

TOP & BOTTOM HOLE LONGITUDE 80 - 32 - 30

13,893' to Top Hole

3,861' to Bottom Hole

(⊕) Denotes Location of Well on United States Topographic Maps

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

Kenneth J. Plum, P.S. 2216

Antero Resources Well No. April Unit 2H Antero Resources Corporation

Note A Tangent Point N: 276,627.79' E: 1,700,039.56'

Notes: West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. April Unit 2H Top Hole coordinates are N: 276,157.58' Latitude: 39°15'12.06" E: 1,699,752.08' Longitude: 80°33'36.98" Bottom Hole coordinates are N: 286,188.88' Latitude: 39°16'50.92" E: 1,697,285.92' Longitude: 80°34'09.84" UTM Zone 17, NAD 1983 Top Hole Coordinates Bottom Hole Coordinates N: 4,344,993.826m N: 4,348,037.368m E: 537,956.372m E: 537,154.139m Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.



Table with 4 columns: Par, Owner, DB/Pg, Acres. Lists Tax Map 301 and 321 parcels.

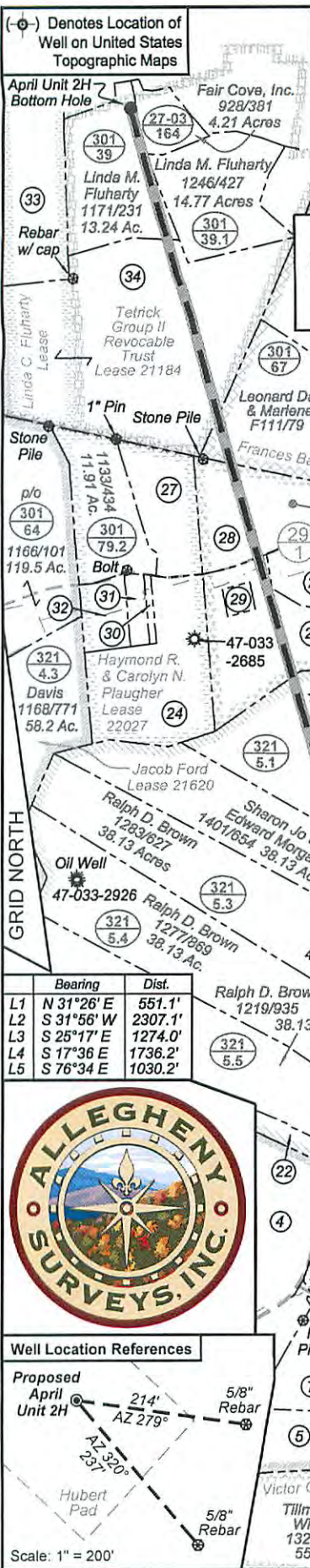


Table with 2 columns: Bearing, Dist. Lists bearings and distances for lines L1 through L5.

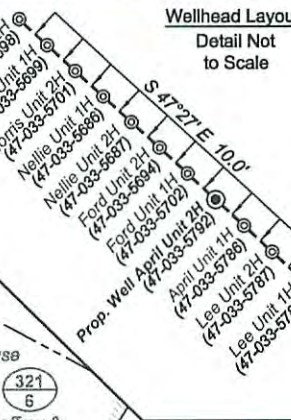
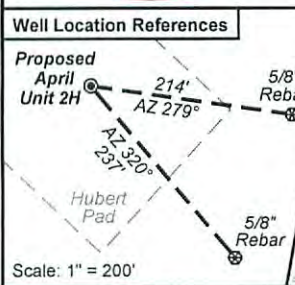
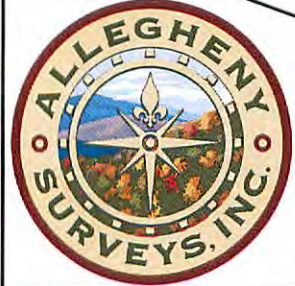
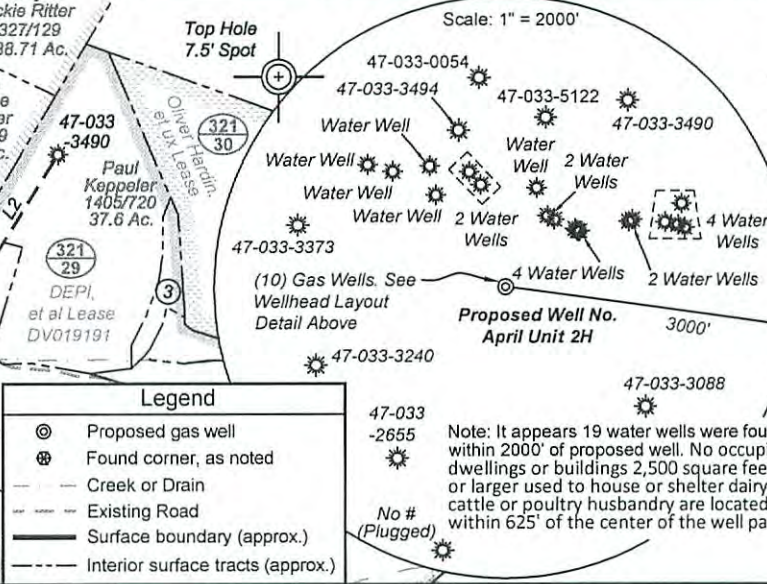


Table with 4 columns: Par, Owner, DB/Pg, Acres. Lists Tax Map 321 parcels.



Legend table defining symbols for proposed gas well, found corner, creek or drain, existing road, surface boundary, and interior surface tracts.

FILE NO: 10-36-TM-13 DRAWING NO: April 2H Well Plat Rev 2 SCALE: 1" = 1200' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Bridgeport, WV

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

DATE: December 28 2015 OPERATOR'S WELL NO. April Unit 2H API WELL NO 47 - 033 - 058716A STATE COUNTY PERMIT

Well type and production information: WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW LOCATION: ELEVATION: Original Grade: 1394' Existing Grade: 1374' WATERSHED: Tenmile Creek QUADRANGLE: Salem DISTRICT: Tenmile COUNTY: Harborsburg ACREAGE: 28.50 108; 70.866 SURFACE OWNER: Hubert Jr. & Lorena Bland Frances Barry Paul J. Watson, et ux, et al 21184 ROYALTY OWNER: DEPI, et al; Tetrick Group II Revocable Trust; J. Moses Raad, et al LEASE NO: DV019191; 21030 ACREAGE: 283; 447; 40 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,600' TVD 18,200' MD WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System ADDRESS: 1615 Wynkoop Street Denver, CO 80202 ADDRESS: 5400 D Big Tyler Road Charleston, WV 25313

33-05877

WW-6A1

Operator's Well Number April 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
<u>DEPI, et al DV 019191 Lease</u>			
Minnie S. Lee	Consolidated Gas Supply Corporation	1/8	1060/0644
Consolidated Gas Supply Corporation	Consolidation Gas Transmission Corporation	Assignment	1136/0250
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	1143/0921
CNG Development Company	CNG Producing Company	Certificate of Incorporation	Exhibit 2
CNG Producing Company	Dominion Exploration & Production, Inc.	Amended Certificate of Authority	AOI 0058/0366
Dominion Exploration & Production, Inc., Dominion Transmission, Inc. & Dominion Appalachian Development LLC	Antero Resources Appalachian Corporation	Assignment	1423/1068
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>J. Moses Raad, et al Lease</u>			
J. Moses Raad, et ux	Garner & Gawthrop, Inc.	1/8	1120/0056
Garner & Gawthrop, Inc.	Bluestone Energy Partners	Assignment	1459/0310
Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corporation	Affidavit Regarding Merger	AOI 0035/1236
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Paul J. Watson, et ux, et al Lease</u>			
Paul J. Watson, et ux	Clarence W. Mutschelknaus	1/8	1421/0522
Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	1473/0453
Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corporation	Affidavit Regarding Merger	AOI 0035/1236
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Frances Barry Lease</u>			
Frances Nelson Barry aka Frances N. Barry	Antero Resources Appalachian Corporation	1/8+	1517/0961
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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33-05877

WW-6A1
(5/13)

Operator's Well No. April 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Tetrick Group II Revocable Trust Lease</u>				
	Tetrick Group II Revocable Trust	Bluestone Energy Partners	1/8	1425/0761
	Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corporation	Affidavit of Merger	AOI 0035/1236
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

*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

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: VP of Production

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Page 1 of
JAN 04 2016

04/08/2016

WV Department of
Environmental Protection

**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
Tel: (304)558-8000
Fax: (304)558-8381
Website: www.wvgsos.com
E-mail: 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.)
Alvyn A. Schopp (303) 367-7310
Contact Name Phone Number

7. Signature information (See below *Important Legal Notice Regarding Signature):

Print Name of Signer: Alvyn A. Schopp Title/Capacity: Authorized Person
Signature: *Alvyn A. Schopp* Date: June 10, 2013

***Important Legal Notice Regarding Signature:** For West Virginia Code §311-1-129. 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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04/08/2016



I, Ken Flechler, Secretary of State of the State of West Virginia, hereby certify that originals of a Notice of Intention to Withdraw with the application of

CIG DEVELOPMENT COMPANY

for a Certificate of Withdrawal from West Virginia, signed and verified, as required by the provisions of Chapter 31, Article 1, Section 60 of the West Virginia Code are filed in my office and conform to law. Therefore, I issue this

CERTIFICATE OF WITHDRAWAL

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

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



TENTH day of
JULY 19 91

Ken Flechler

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Secretary of State JAN 04 2016

04/08/2016
WV Department of Environmental Protection

KEN HECHLER
FEE \$5.00



TO BE FILED IN DUPLICATE
ORIGINALS

FILED
JUL 10 2001
OFFICE OF
SECRETARY OF STATE
WEST VIRGINIA

APPLICATION FOR
CERTIFICATE OF WITHDRAWAL
OF
CKG Development Company

In accordance with Chapter 31, Article 1, Section 60 of the Code of West Virginia, the undersigned corporation hereby applies for a certificate of withdrawal from West Virginia, and submits the following statement:

The name of the corporation is: CKG Development Company

It is incorporated under the laws of Delaware

IT IS NOT TRANSACTING BUSINESS IN WEST VIRGINIA.

It hereby surrenders its authority to transact business in West Virginia. It revokes the authority of its registered agent in West Virginia to accept service of process, and consents that service of process in any action, suit or proceeding based upon any course of action arising in West Virginia during the time the corporation was authorized to transact business in West Virginia may thereafter be made on the corporation by service thereof on the Secretary of State of West Virginia.

The post office address to which the Secretary of State may mail a copy of any process against the corporation is: CKG Producing Company, CKG Tower, 1450 Poydras Street, New Orleans, LA 70112-6000 Attn: Corporate Secretary

The aggregate number of shares which it has authority to issue, itemized by classes, par value of shares, shares without par, and series, if any, within a class, as of this date is:

NUMBER OF SHARES	CLASS	SERIES	PAR VALUE/NO PAR
1,400,000	Common		\$100

The aggregate number of its issued shares, itemized by classes, par value of shares, shares without par, and series, if any, within a class, as of this date is:

NUMBER OF SHARES	CLASS	SERIES	PAR VALUE/NO PAR
1,168,410	Common		\$100

The amount of its state capital as of this date is: \$100,000.00

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CHG Development Company (Through CHG Producing Company)

corporate name

President/Vice President
D. Malcolm Johns, Jr.
Secretary

State of Louisiana
Parish Orleans

I, James E. Wright, Jr. a Notary Public, do
hereby certify that D. Malcolm Johns, Jr.

is the Secretary
office
of CHG Producing Company
corporate name
office

appeared before me and they signed the foregoing as the act and deed of the corporation.

[Signature]
Notary Public

(notary seal)

My commission expires at death

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JAN 04 2016
WV Department of
Environmental Protection
04/08/2016



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

December 22, 2015

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

RE: April Unit 2H
Quadrangle: Salem 7.5'
Harrison County/Tenmile District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the April 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 from all leases through which the April 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 "Tim Rady", is written over the word "Sincerely,".

Tim Rady
Director, Land Operations - Marcellus

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WV Department of
Environmental **04/08/2016**

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

Date of Notice Certification: 12/29/2015

API No. 47- 033 - 05877
Operator's Well No. April Unit 2H
Well Pad Name: Hubert 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>537956.372m</u>
County: <u>Harrison</u>	UTM NAD 83 Northing: <u>4344993.826m</u>
District: <u>Tenmile</u>	Public Road Access: <u>CR 50/6</u>
Quadrangle: <u>Salem 7.5'</u>	Generally used farm name: <u>Hubert Jr. & Lorena Bland</u>
Watershed: <u>Tenmile 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.

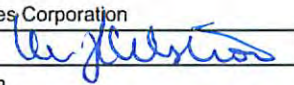
Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked=""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

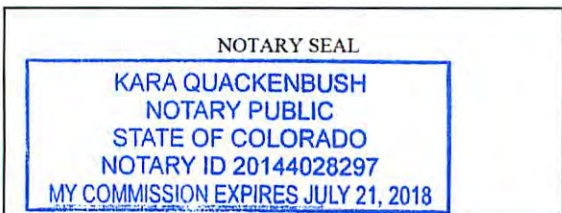
Required Attachments:

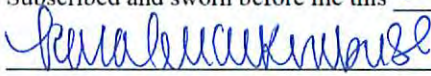
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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 of personal service, the return receipt card or other postal receipt for certified mailing.

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 29th day of December 2015
 Notary Public
 My Commission Expires July 21, 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 depprivacyofficer@wv.gov.

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 WV Department of
 Environmental Protection

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: 12/30/2015 **Date Permit Application Filed:** 12/30/2015

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: PLEASE SEE ATTACHMENT
Address: _____

COAL OWNER OR LESSEE
Consolidation Coal Company, CONSOL Energy, Inc. CNX Center,
Name: Engineering & Operations Support - Coal, ATTN: Analyst
Address: 1000 Consol Energy Dr.
Canonsburg, PA 15317

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: PLEASE SEE ATTACHMENT
Address: _____

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

*Please attach additional forms if necessary

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JAN 04 2016
WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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.**

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Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

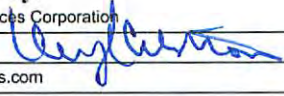
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WW-6A
(8-13)

API NO. 47- 033 - 05877
OPERATOR WELL NO. April Unit 2H
Well Pad Name: Hubert Pad

Notice is hereby given by:

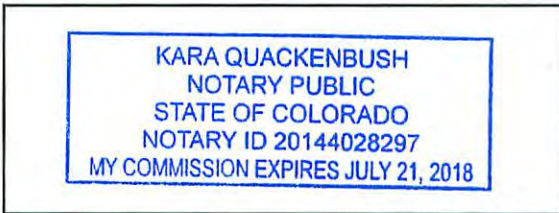
Well Operator: Antero Resources Corporation
Telephone: (303) 357-7310
Email: asteele@anteroresources.com



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

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 30 day of December 2015



Notary Public

My Commission Expires July 21, 2018

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WW-6A Notice of Application Attachment (HUBERT PAD):**List of Surface Owner(s) with Proposed Disturbance associated with Hubert Well Pad:**

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

TM 321 PCLS 37

Owner: Hubert Jr. & Lorena Bland ✓
Address: 3912 Halls Run Rd.
 Salem, WV 26426

TM 321 PCLS 26

Owner: Christine R. Utter ✓
Address: RR 1 Box 304A
 Salem, WV 26426

Owner: Christine R. Utter (2nd Address) ✓
Address: 3988 Halls Run Rd.
 Salem, WV 26426

TM 321 PCLS 36

Owner: Tillman Lee Williams ✓
Address: 1545 Flinderation Rd.
 Salem, WV 26426

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

TM 321 PCL 39

Owner: John D. Clevenger, et ux ✓
Address: RR 1 Box 308A
 Salem, WV 26426

TM 341 PCL 3

Owner: Arnet Thompson ✓
Address: 10736 Arnez Rd.
 Jacksonville, FL 32218

SURFACE OWNER(S) IMPOUNDMENTS OR PITS**TM 341 PCL 3**

Owner: Arnet Thompson ✓
Address: 10736 Arnez Rd.
 Jacksonville, FL 32218

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WATER SOURCE OWNERS: These owners of water sources, within 1500' of the well pad, were notified of all well work permit applications.

TM 321/26

TM 321/26 – 1 Water Well: 1227' (D) ✓

Owner: Christine R. Utter
Address: RR 1 Box 304A
Salem, WV 26426

Owner: Christine R. Utter (2nd Address)
Address: 3988 Halls Run Rd.
Salem, WV 26426

TM 321/28.4

TM 321/28.4 – 1 Water Well: 1265' (E) ✓

Owner: Nancy E. Farr
Address: 3952 Halls Run Rd.
Salem, WV 26426

TM 321/37

TM 321/37 – 1 Water Well: 1104' (F) ✓

Owner: Hubert Jr. & Lorena Bland
Address: 3912 Halls Run Rd.
Salem, WV 26426

TM 321/28.1

TM 321/28.1 – 1 Water Well: 1080' (K) ✓

Owner: Loren Bradley Strother
Address: 4011 Halls Run Rd.
Salem, WV 26426

TM 321/37.1

TM 321/37.1 – 1 Water Well: 860' (I) ✓

Owner: Roberta G. Zwiebel
Address: 3766 Halls Run Rd.
Salem, WV 26426

TM 321/38

TM 321/38 – 1 Water Well: 863' (J) ✓

Owner: Robert N. & Shirley M. Bowen
Address: 3738 Halls Run Rd.
Salem, WV 26426

TM 321/29

TM 321/38 – 2 Water Wells: 1484' (L), 1442' (M) ✓

Owner: Paul Peter Keppeler
Address: PO Box 4158
Clarksburg, WV 26302

TM 321/38.1 & 321/38.2

TM 321/38.1 – 3 Water Wells: 944', 947' & 960' ✓

TM 321/38.2 – 1 Water Well: 940' ✓

Owner: John D. Clevenger, et ux
Address: RR 1 Box 308A
Salem, WV 26426

WATER SOURCE OWNERS: Greater than 1500'

***NOTE: On attached water well map, 7 water wells were identified, but they are located greater than 1500' from the subject well pad location.**

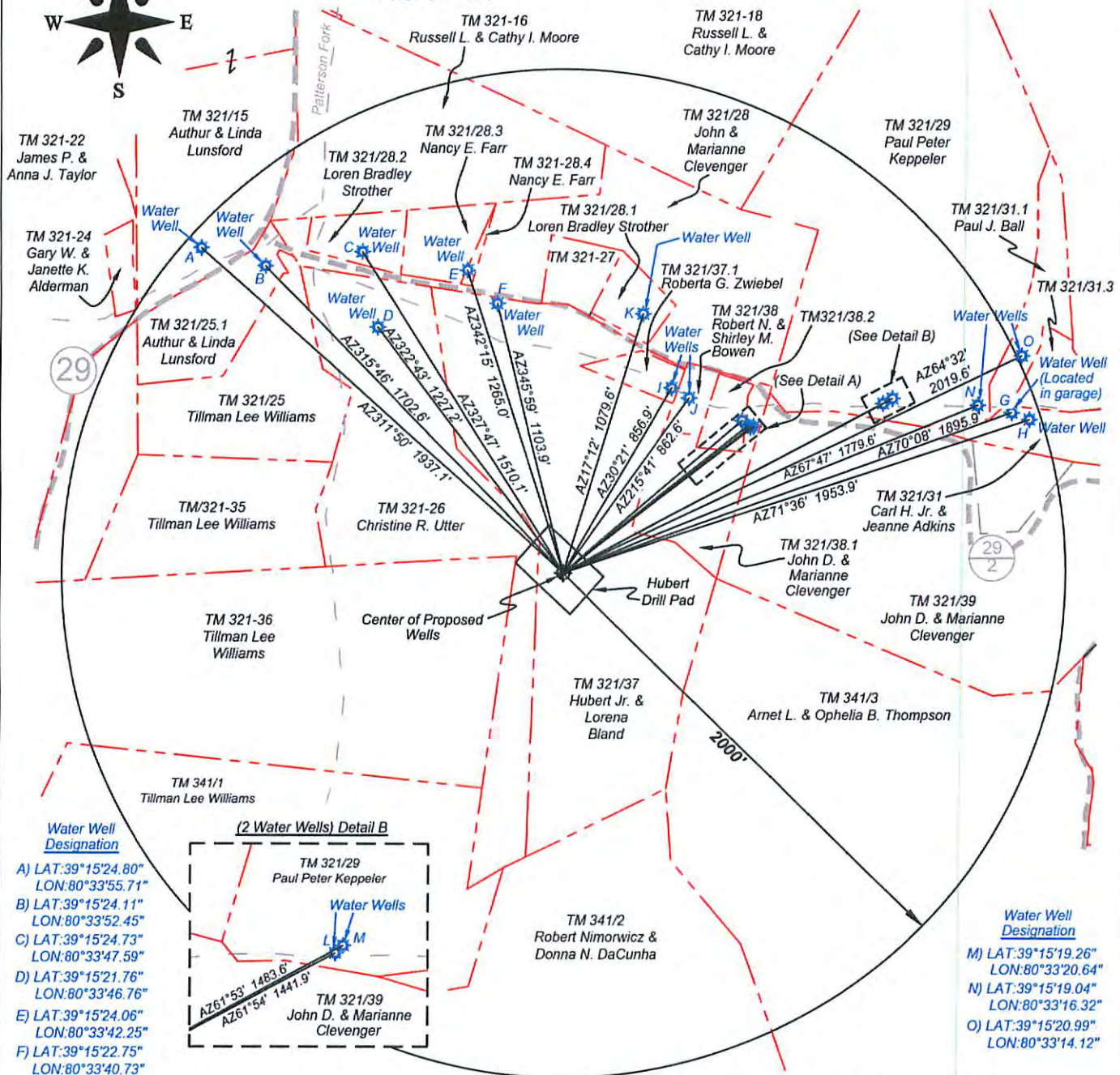
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Hubert Drill Pad Water Well & Spring Map

600' 0' 600' 1200'

Scale 1" = 600'



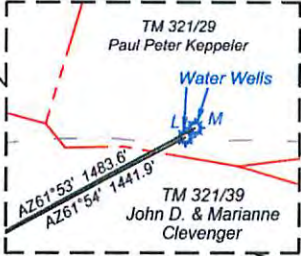
29

29
2

Water Well Designation

- A) LAT: 39°15'24.80" LON: 80°33'55.71"
- B) LAT: 39°15'24.11" LON: 80°33'52.45"
- C) LAT: 39°15'24.73" LON: 80°33'47.59"
- D) LAT: 39°15'21.76" LON: 80°33'46.76"
- E) LAT: 39°15'24.06" LON: 80°33'42.25"
- F) LAT: 39°15'22.75" LON: 80°33'40.73"
- G) LAT: 39°15'18.77" LON: 80°33'14.59"
- H) LAT: 39°15'18.51" LON: 80°33'13.69"
- I) LAT: 39°15'19.56" LON: 80°33'31.77"
- J) LAT: 39°15'19.18" LON: 80°33'30.88"
- K) LAT: 39°15'22.43" LON: 80°33'33.26"
- L) LAT: 39°15'19.06" LON: 80°33'21.10"
- M) LAT: 39°15'19.26" LON: 80°33'20.64"
- N) LAT: 39°15'19.04" LON: 80°33'16.32"
- O) LAT: 39°15'20.99" LON: 80°33'14.12"

(2 Water Wells) Detail B



Parcel Owner Addresses

- Authur & Linda Lunsford - 1578 Patterson Fork Rd. Salem, WV 26426
- Loren Bradley Strother - 4011 Halls Run Rd. Salem, WV 26426
- Nancy E. Farr - 3952 Halls Run Rd. Salem, WV 26426
- Christine R. Utter - RR 1 Box 304-A Salem, WV 26426
- Paul J. Ball - RR 1 Box 311 Salem, WV 26426
- John D. Clevenger, et ux - RR 1 Box 308-A Salem WV 26426
- Carl H. Jr. & Jeanne Adkins - 68 Hunter Hill Dr. Salem, WV 26426
- Hubert Jr. & Lorena Bland - 3912 Halls Run Rd. Salem, WV 26426
- Robert N. & Shirley M. Bowen - 3738 Halls Run Rd. Salem, WV 26426
- Roberta G. Zwiebel - 3766 Halls Run Rd. Salem, WV 26426
- Paul Peter Keppeler - PO Box 4158 Clarksburg, WV 26302

(4 Water Wells) Detail A



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

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

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

Date of Notice: 09/03/2015 **Date Permit Application Filed:** 12/30/2015

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: PLEASE SEE ATTACHMENT
Address: _____

Name: _____
Address: _____

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>537947.33m (Approximate Pad Center)</u>
County:	<u>Harrison</u>		Northing:	<u>4345002.06m (Approximate Pad Center)</u>
District:	<u>Tenmile</u>	Public Road Access:	<u>CR 50/6</u>	
Quadrangle:	<u>Salem 7.5'</u>	Generally used farm name:	<u>Hubert Jr. & Lorena Bland</u>	
Watershed:	<u>Tenmile Creek</u>			

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: Antero Resources Appalachian Corporation
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7323
Email: asteele@anteroresources.com
Facsimile: 303-357-7315

Authorized Representative: Ashlie Steele
Address: 1615 Wynkoop St.
Denver, CO 80202
Telephone: 303-357-7323
Email: asteele@anteroresources.com
Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

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WW-6A4 Notice of Intent to Drill Attachment:

Surface Owners:

Tax Parcel ID: 321-23

Owner: Christine R. Utter
Address: RR 1 Box 304A
Salem, WV 26426

Owner: Christine R. Utter (2nd Address)
Address: 3988 Halls Run Rd.
Salem, WV 26426

Surface Owners:

Tax Parcel ID: 321-36

Owner: Tillman Lee Williams
Address: 1545 Flindertation Rd.
Salem, WV 26426

Surface Owners:

Tax Parcel ID: 321-37

Owner: Hubert Bland, Jr., et ux
Address: 3912 Halls Run Rd.
Salem, WV 26426

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WV Department of
Environmental Protection

04/08/2016

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: 12/30/2015 **Date Permit Application Filed:** 12/30/2015

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: PLEASE SEE ATTACHMENT

Name: _____

Address: _____

Address: _____

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>537956.372m</u>
County:	<u>Harrison</u>		Northing:	<u>4344993.826m</u>
District:	<u>Tenmile</u>	Public Road Access:	<u>CR 50/6</u>	
Quadrangle:	<u>Salem 7.5'</u>	Generally used farm name:	<u>Hubert Jr. & Lorena Bland</u>	
Watershed:	<u>Tenmile Creek</u>			

This Notice Shall Include:

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

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

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Environmental Protection

04/08/2016

WW-6A5 Notice of Planned Operations Attachment:**Surface Owners:**

Owner: Hubert Jr. & Lorena Bland
Address: 3912 Halls Run Rd.
Salem WV 26426

Owner: Christine R. Utter
Address: RR 1 Box 304A
Salem, WV 26426

Owner: Christine R. Utter (2nd Address)
Address: 3988 Halls Run Rd.
Salem, WV 26426

Owner: Tillman Lee Williams
Address: 1545 Flinderation Rd.
Salem, WV 26426

RECEIVED
Office of Oil and Gas
JAN 04 2016
WV Department of
Environmental Protection

04/08/2016



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

Reissued December 23, 2015

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

Subject: DOH Permit for the Hubert Pad, Harrison County
 April Unit 2H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2012-0815 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off of Harrison County Route 50/6 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: Natalie Komp
 Antero Resources Corporation
 CH, OM, D-4
 File

RECEIVED
 Office of Oil and Gas
 JAN 04 2016

WV Department of
 Environmental Protection

04/08/2016

**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

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Office of Oil and Gas
JAN 04 2016
WV Department of
Environmental Protection

04/08/2016

**WVDEP O&G
ACCEPTED AS-BUILT**

VAJ 4/7/2016

HUBERT PAD AS-BUILT PLANS

ANTERO RESOURCES CORPORATION

West Virginia Coordinate System of 1983
State Plane Grid North
Elevations NAVD83
Established By Survey Grade GPS



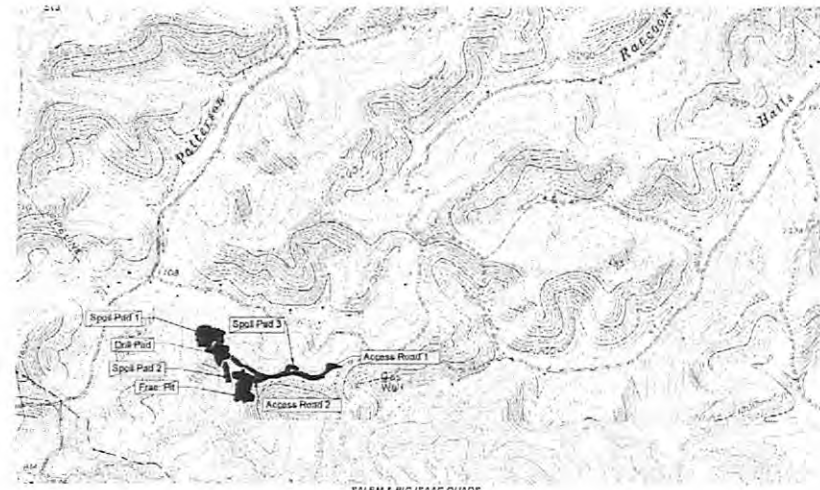
Allegreey Surveys, Inc.
172 Thompson Drive
Bridgeton, WV 26030
(304) 646-5025



Hornor
Shaw Bros., Engineers
Civil, Mining, Environmental and
Consulting Engineering
Company, Inc. 400 10th St. NW
Martinsburg, WV 26150

**ANTERO
RESOURCES**
THIS DOCUMENT
PREPARED FOR
ANTERO RESOURCES
CORPORATION

COVER SHEET / LOCATION MAP
**HUBERT
DRILL PAD SITE**
TENNILLE DISTRICT
HARRISON COUNTY, WV



- AFFECTED TAX PARCELS:** 321/26, 321/37, 321/36, 321/39 & 341/3
TENNILLE DISTRICT
- TM 321 - Pct. 26**
Christine R. Utter
DB 1314417
20 Acres
(Affected area from Proposed Drill Pad = 0.41 Acres)
(Affected area from Proposed Spoil Piles = 1.33 Acres)
- TM 321 - Pct. 36**
Tilman Lee Williams
DB 13221054
55.5 Acres
(Affected area from Proposed Drill Pad = 0.06 Acres)
- TM 321 - Pct. 37**
Hubert Blank Jr., et ux
DB 13071209
23.5 Acres
(Affected area from Proposed Access Road = 470 feet, 0.97 Acres)
(Affected area from Proposed Drill Pad = 2.75 Acres)
(Affected area from Proposed Frac Pad Access Road = 154 feet, 1.01 Acres)
(Affected area from Proposed Spoil Piles = 4.60 Acres)
- TM 321 - Pct. 39**
John D. Clevenger, et ux
DB 12472289
33.35 Acres
(Affected area from Proposed Access Road = 690 feet, 1.71 Acres)
(Affected area from Proposed Spoil Piles = 0.54 Acres)
- TM 341 - Pct. 3**
Arnel L. Thompson
DB 13159260
73 Acres by Deed - 71.41 Acres Assessed
(Affected 40' RWI area from Proposed Access Road = 1259 feet, 2.92 Acres)
(Affected area from Proposed Frac Pad Access Road = 382 feet, 0.70 Acres)
(Affected area from Proposed Spoil Piles = 0.21 Acres)

Project Contacts

Antero Resources:
Tom Wince - Construction
304-859-3405 Off 304-483-0933 Cell

Ryan Ward, Environmental Engineer (ALLSTAR)
866-213-2666, ext 311 OR 304-692-7477 Cell

John Kavacki, Engineer
817-268-1553

Dusty Woods
817-771-1436

Aaron Kuntzer, Construction Manager
405-227-8344

Surveyor & Engineer
Bill Yetzer, P.S., E.I., - Allegreey Surveys Inc.
304-848-5035 Off 304-619-4937 Cell

Tom Corathers, P.E., P.S. - Hornor Brothers Engineers
304-624-6445 Office

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:	N/A
FLOODPLAIN SHOWN ON DRAWINGS:	N/A
FIRM MAP NUMBER(S) FOR SITE:	5400530075B
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:	N/A

SALEM & BIG/ISAAC QUADS

SITE LOCATION	
STATE PLANE NAD 83 (WV NORTH ZONE)	
EASTING	NORTHING
Center of Pad	321152.837 M 803278.707 M
Drain Access Road	321150.337 M 803208.247 M
Center of Pad 2/16 83.77 M	803208.247 M



- Well Location Restrictions:**
All Pad and Fracture Pad comply with the following restrictions
- * 250' from any existing well or developed spring used for human or domestic animals.
 - * 625' occupied dwelling or barn greater 2500 SF used for poultry or dairy measured from the center of the pad.
 - * 100' from edge of disturbance to wetlands, perennial streams, natural or artificial lake, pond or reservoir.
 - * 300' from edge of disturbance to naturally reproducing trout streams.
 - * 1000' of surface or ground water intake to a public water supply.

Well Table					
Prop. Well Pad Line 16 WVA NAD83 E: 278174.18 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.05"	Prop. Well Pad Line 20 WVA NAD83 E: 278181.81 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.14"	Prop. Well Pad Line 18 WVA NAD83 E: 278182.83 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.22"	Prop. Well Pad Line 22 WVA NAD83 E: 278177.40 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.32"	As-Built Well Pad Line 16 WVA NAD83 E: 278207.23 WVA NAD83 E: 278207.23 LAT NAD83: 80°17'12.42" LONG NAD83: 80°33'38.40"	As-Built Well Pad Line 20 WVA NAD83 E: 278207.23 WVA NAD83 E: 278207.23 LAT NAD83: 80°17'12.42" LONG NAD83: 80°33'38.40"
As-Built Well Pad Line 18 WVA NAD83 E: 278174.18 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.05"	As-Built Well Pad Line 22 WVA NAD83 E: 278177.40 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.22"	As-Built Well Pad Line 24 WVA NAD83 E: 278177.40 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.22"	As-Built Well Pad Line 26 WVA NAD83 E: 278177.40 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.22"	As-Built Well Pad Line 28 WVA NAD83 E: 278177.40 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.22"	As-Built Well Pad Line 30 WVA NAD83 E: 278177.40 LAT NAD83: 80°17'18.81" LONG NAD83: 80°33'38.22"

SHEET INDEX	
COVER SHEET / LOCATION MAP	1
AS-BUILT SITE PLANS	2-4
AS-BUILT ACCESS ROAD PROFILE	5

DATE	REVISIONS
6-18-13	Upload Well Configuration
7-29-2013	ADDED ROAD PROFILE WITH CURVES
12-28-2013	UPDARED AS-BUILT TO SHOW DRILLED WELLS, WELL NUMBERS, METERS, CONTAINMENT AREAS & BURN GEAR

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

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

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 §35-4-21. The information reflects a temporary frac pit pond. The computed above grade storage volume is less than 15 acre feet. Filling method pumped, frac. pond is lined.

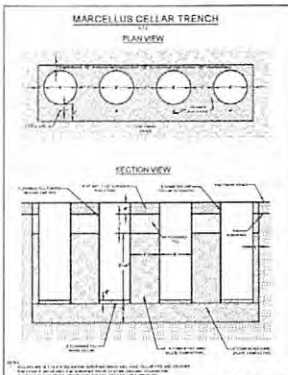
As-Built Certification:
These drawings have been prepared from actual field surveys and reflect the locations and as-built conditions known to exist following construction of this site, to the best of my knowledge.

Date: 6-28-2013
Scale: AS SHOWN
Designed by: TBC & RB
File No.:
Page: 1 of 5

AS-BUILT SITE PLAN 3

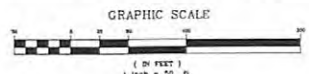
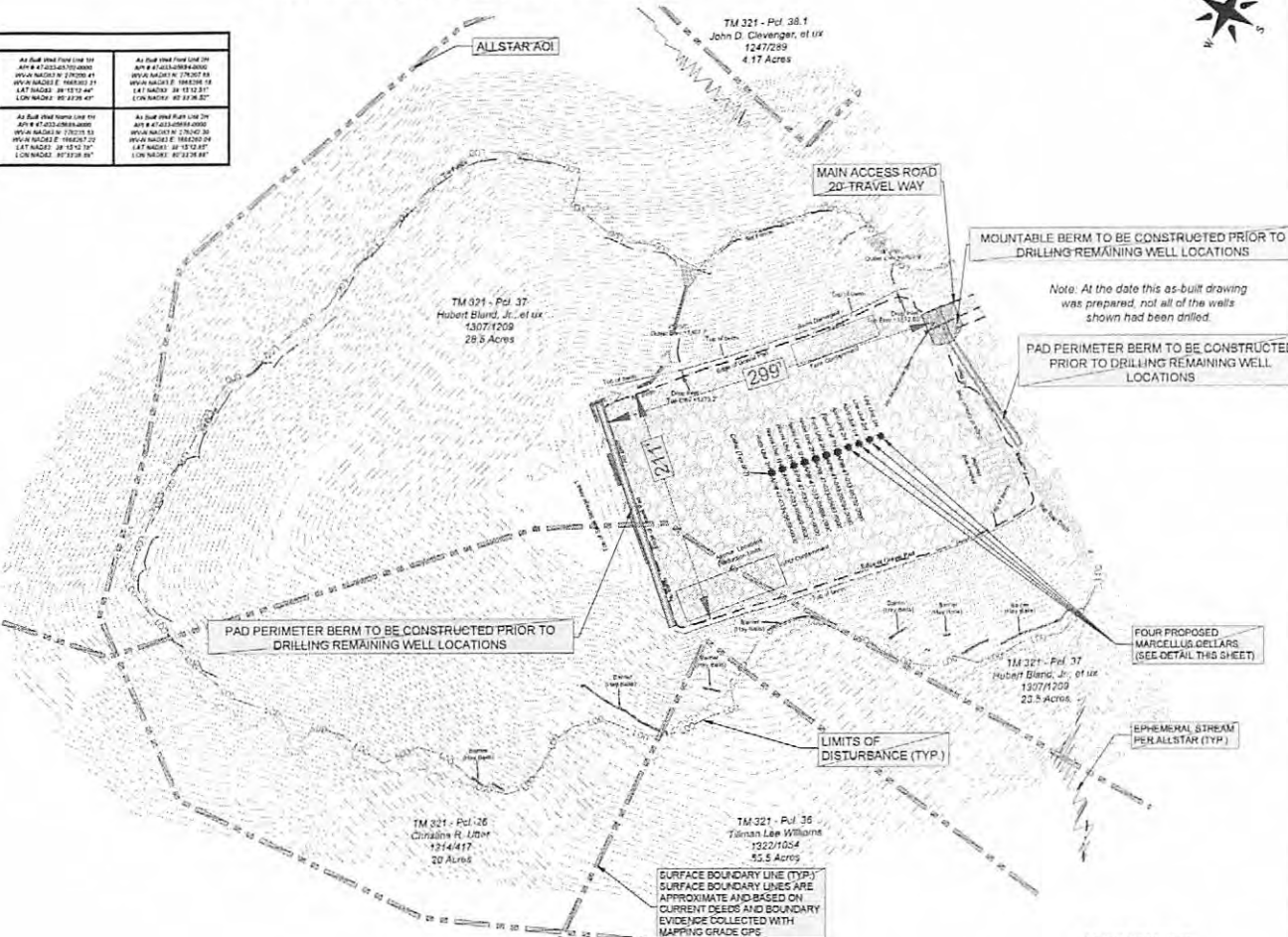
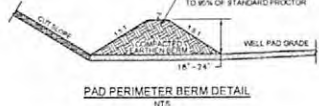
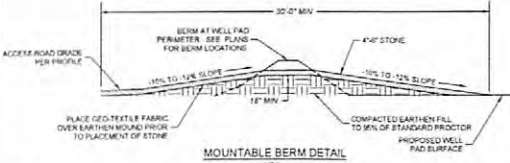


Well Table					
Prop Well Line 1st 1st WVA NACED N: 276174.16 WVA NACED E: 186222.33 LAT NACED: 39°13'13.94" LON NACED: 87°27'26.57"	Prop Well Line 2nd 2nd WVA NACED N: 276180.83 WVA NACED E: 186222.32 LAT NACED: 39°13'12.23" LON NACED: 87°27'26.54"	Prop Well April Line 1st WVA NACED N: 276157.89 WVA NACED E: 186222.76 LAT NACED: 39°13'13.20" LON NACED: 87°27'26.27"	Prop Well April Line 2nd WVA NACED N: 276174.45 WVA NACED E: 186222.66 LAT NACED: 39°13'13.20" LON NACED: 87°27'26.27"	As-Built Well Line 1st 1st WVA NACED N: 276157.89 WVA NACED E: 186222.76 LAT NACED: 39°13'13.20" LON NACED: 87°27'26.27"	As-Built Well Line 2nd 2nd WVA NACED N: 276207.89 WVA NACED E: 186222.31 LAT NACED: 39°13'12.81" LON NACED: 87°27'26.87"
As-Built Well Line 1st 1st WVA NACED N: 276180.83 WVA NACED E: 186222.32 LAT NACED: 39°13'12.23" LON NACED: 87°27'26.54"	As-Built Well Line 1st 1st WVA NACED N: 276157.89 WVA NACED E: 186222.76 LAT NACED: 39°13'13.20" LON NACED: 87°27'26.27"	As-Built Well Line 1st 1st WVA NACED N: 276174.45 WVA NACED E: 186222.76 LAT NACED: 39°13'13.20" LON NACED: 87°27'26.27"	As-Built Well Line 1st 1st WVA NACED N: 276157.89 WVA NACED E: 186222.76 LAT NACED: 39°13'13.20" LON NACED: 87°27'26.27"	As-Built Well Line 1st 1st WVA NACED N: 276157.89 WVA NACED E: 186222.76 LAT NACED: 39°13'13.20" LON NACED: 87°27'26.27"	As-Built Well Line 1st 1st WVA NACED N: 276207.89 WVA NACED E: 186222.31 LAT NACED: 39°13'12.81" LON NACED: 87°27'26.87"



**WVDEP OOG
ACCEPTED AS-BUILT**
4/7/2016

- MOUNTABLE BERM NOTES**
1. USE MINIMUM OF 18" WIDTH TO MAINTAIN VEHICULAR PASSAGE
 2. PLACE 4" OF STONE OVER LENGTH AND WIDTH OF MOUNTABLE BERM
 3. MAINTAIN GRADE, AND CROSS SECTION, ADD STONE OR MAKE REPAIRS AS CONDITIONS DEMAND TO MAINTAIN SPECIFIED DIMENSIONS REMOVE ACCUMULATED SEDIMENT AND DEBRIS



- Legend**
- As-Built Road Area
 - As-Built Drill Pad Area
 - As-Built 2" Contour
 - As-Built 10' Contour
 - As-Built Tree Line
 - As-Built 5ft Fence

As-Built Certification
These drawings have been prepared from actual field surveys and reflect the locations and as-built conditions known to exist following construction of this site, to the best of my knowledge.

DATE	REVISIONS	Date: 6-27-2013
7-29-2013	ADDED ROAD PROFILE WITH CURVES	Scale: 1"=50'
12-29-2013	UPDATED AS-BUILT TO SHOW DRILLED WELL SIZES, METERS, CONTAINMENT AREA & BERM DETAIL	Designed By: JDR & TDC
01-16-2015	ADDED 7 WELL CELLARS	File No: 2013-0000000000
07-22-2015	ADDED 4 PROPOSED WELL CELLARS AND MARCELLUS CELLAR DETAIL	Page: 3 of 5

Antero Resources
THIS DOCUMENT PREPARED FOR ANTERO RESOURCES CORPORATION

Horner Bros. Engineers
Civil, Mining, Environmental and Surveying
1400 South Main Street, Suite 200, Weirton, WV 26060
(304) 848-6035

AS-BUILT SITE PLAN 3
HUBERT
DRILL PAD SITE
JENNIFER DISTRICT
JEFFERSON COUNTY, WV

BUILT PLANS CORPORATION

West Virginia Coordinate System of 1983
 State Plane Grid North
 Elevations NAVD88
 Established By Survey Grade GPS



Allegheny Surveys, Inc.
 172 Thompson Drive
 Bridgeport, WV 26330
 (304) 848-5035

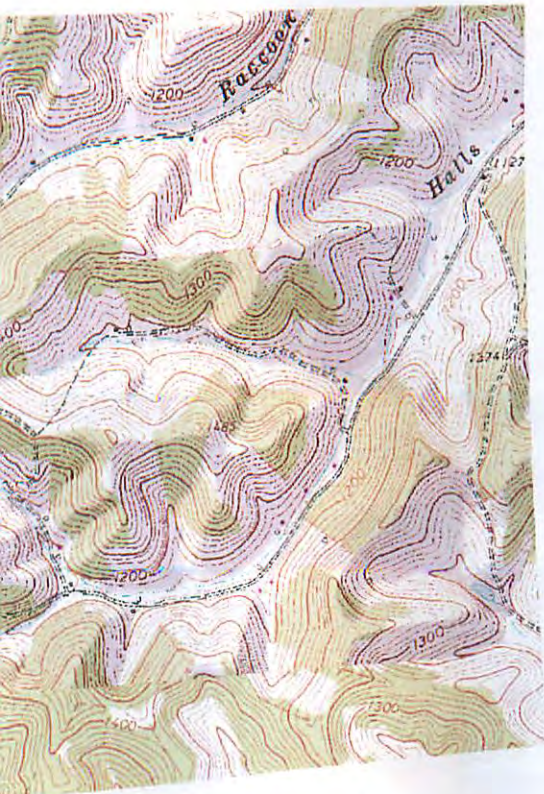


Hornor Bros. Engineers
 Since 1902
 1902 Engineers
 Civil, Mining, Environmental and
 Consulting Engineering
 140 South Third Street, First Office Building
 Charleston, West Virginia, 25301 (606) 804-2444



THIS DOCUMENT
 PREPARED FOR
 ANTERO RESOURCES
 CORPORATION

COVER SHEET / LOCATION MAP
**HUBERT
 DRILL PAD SITE**
 TENNILE DISTRICT
 HARRISON COUNTY, WV



AFFECTED TAX PARCELS: 321/26, 321/37, 321/36, 321/39 & 341/3
 TENNILE DISTRICT

TM 321 - Pcl. 26
 Christine R. Utter
 DB 1314/417
 20 Acres
 (Affected area from Proposed Drill Pad = 0.41 Acres)
 (Affected area from Proposed Spoil Piles = 1.33 Acres)

TM 321 - Pcl. 36
 Tilman Lee Williams
 DB 1322/1054
 55.5 Acres
 (Affected area from Proposed Drill Pad = 0.06 Acres)

TM 321 - Pcl. 37
 Hubert Bland Jr., et ux
 DB 1307/1209
 28.5 Acres
 (Affected area from Proposed Access Road = 470 feet, 0.97 Acres)
 (Affected area from Proposed Drill Pad = 2.75 Acres)
 (Affected area from Proposed Frac Pit Access Road = 154 feet, 1.01 Acres)
 (Affected area from Proposed Frac Pit = 1.97 Acres)
 (Affected area from Proposed Spoil Piles = 4.60 Acres)

TM 321 - Pcl. 39
 John D. Clevenger, et ux
 DB 1247/289
 33.35 Acres
 (Affected area from Proposed Access Road = 690 feet, 1.71 Acres)
 (Affected area from Proposed Spoil Piles = 0.54 Acres)

TM 341 - Pcl. 3
 Amet L. Thompson
 DB 1315/960
 73 Acres by Deed - 71.41 Acres Assessed
 (Affected 40' RAW area from Proposed Access Road = 1,259 feet, 2.92 Acres)
 (Affected area from Proposed Frac Pit Access Road = 382 feet, 0.70 Acres)
 (Affected area from Proposed Frac Pit = 1.55 Acres)
 (Affected area from Proposed Spoil Piles = 0.21 Acres)

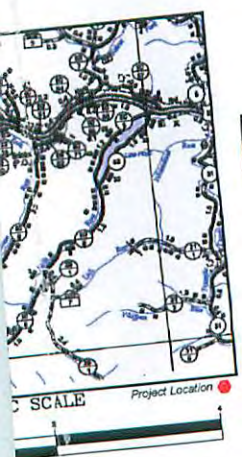
Well Location Restrictions:

- All Pad and Fracture Pit complies with the following restrictions.
- * 250' from an existing well or developed spring used for human or domestic animals.
 - * 625' occupied dwelling or barn greater 2500 SF used for poultry or dairy measured from the center of the pad.
 - * 100' from edge of disturbance to wetlands, perennial streams, natural or artificial lake, pond or reservoir.
 - * 300' from edge of disturbance to naturally reproducing trout streams.
 - * 1000' of surface or ground water intake to a public water supply.

SDW
 1/20/2016

QUADS

00	3000
NORTH ZONE	
LONGITUDE	
N 80°33'36.70" W	
N 80°33'09.28" W	
E=537947.2590	



Well Table			
Prop Well Leo Unit 2H WV-N NAD83 N: 278150.93 WV-N NAD83 E: 1668233.49 LAT NAD83: 39°15'12.18" LON NAD83: 80°33'36.05"	Prop Well April Unit 1H WV-N NAD83 N: 278182.69 WV-N NAD83 E: 1668218.76 LAT NAD83: 39°15'12.32" LON NAD83: 80°33'36.23"	Prop Well April Unit 2H WV-N NAD83 N: 278169.45 WV-N NAD83 E: 1668231.40 LAT NAD83: 39°15'12.38" LON NAD83: 80°33'36.32"	As Built Well Ford Unit 1H API # 47-033-05702-0000 WV-N NAD83 N: 278201.21 WV-N NAD83 E: 1668304.02 LAT NAD83: 39°15'12.45" LON NAD83: 80°33'36.42"
As Built Well Nobile Unit 2H API # 47-033-05687-0000 WV-N NAD83 N: 278214.74 WV-N NAD83 E: 1668289.29 LAT NAD83: 39°15'12.56" LON NAD83: 80°33'36.40"	As Built Well Nobile Unit 1H API # 47-033-05686-0000 WV-N NAD83 N: 278221.49 WV-N NAD83 E: 1668281.93 LAT NAD83: 39°15'12.65" LON NAD83: 80°33'36.70"	As Built Well Norris Unit 2H API # 47-033-05701-0000 WV-N NAD83 N: 278228.26 WV-N NAD83 E: 1668274.56 LAT NAD83: 39°15'12.75" LON NAD83: 80°33'36.80"	As Built Well Ford Unit 2H API # 47-033-05694-0000 WV-N NAD83 N: 278207.97 WV-N NAD83 E: 1668286.66 LAT NAD83: 39°15'12.51" LON NAD83: 80°33'36.51"
As Built Well Rusch Unit 2H API # 47-033-05698-0000 WV-N NAD83 N: 278241.78 WV-N NAD83 E: 1668299.63 LAT NAD83: 39°15'12.84" LON NAD83: 80°33'36.99"		As Built Well Norris Unit 1H API # 47-033-05699-0000 WV-N NAD83 N: 278235.02 WV-N NAD83 E: 1668297.19 LAT NAD83: 39°15'12.78" LON NAD83: 80°33'36.99"	

SHEET INDEX	
COVER SHEET / LOCATION MAP	1
AS-BUILT SITE PLANS	2-4
AS-BUILT ACCESS ROAD PROFILE	5

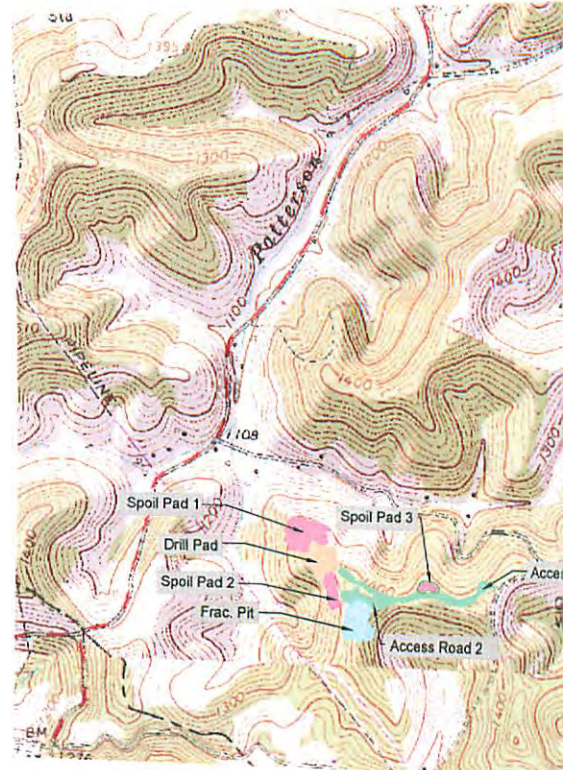
DATE	REVISIONS
6-18-13	Updated Well Configuration
7-29-2013	ADDED ROAD PROFILE WITH CULVERTS
12-28-2015	UPDATED AS BUILT TO SHOW DRILLED WELLS, WELL NOS., METERS, CONTAINMENT AREAS & BERM DETAIL

Date: 6-28-2013
 Scale: AS SHOWN
 Designed By: TBC & JDR
 File No. CTS-2012-283-AS-BUILT-COVERSHEET.dwg
 Page 1 of 5

As-Built Certification:
 These drawings have been prepared from actual field surveys and reflect the locations and as-built conditions known to exist following construction of this site, to the best of my knowledge.

Notes, and reference have been prepared in accordance with the West Virginia Code of State Rules, Chapter 59, Office of Oil and Gas §35-4-21. The computed area is less than 15 acre feet. The pond is lined.

HUBERT PAD A ANTERO RESOUR



Project Contacts

Antero Resources

Tom Wince - Construction
304-869-3405 Off. 304-483-0933 Cell

Ryan Ward, Environmental Engineer (ALLSTAR)
866-213-2666, ext 311 Off. 304-692-7477 Cell

John Kawcak, Engineer
817-368-1553

Dusty Woods
817-771-1436

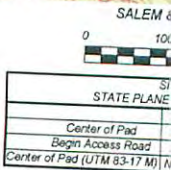
Aaron Kunzler, Construction Manager
405-227-8344

Surveyor & Engineer

Bill Yetzer, PS, EI, - Allegheny Surveys Inc.
304-848-5035 Off. 304-619-4937 Cell

Tom Corathers, PE, PS - Horner Brothers Engineers
304-624-6445 Office

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:	N/A
FLOODPLAIN SHOWN ON DRAWNGS:	N/A
FIRM MAP NUMBER(S) FOR SITE:	5400530075B
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:	N/A



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



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

Design Certification

The drawings, construct diagrams attached here, accordance with the We Division of Environment The information reflects above grade storage vs. filling method pumped.

04/08/2016