

west virginia department of environmental protection

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

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

Friday, April 27, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for RAY UNIT 1H

47-085-10346-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: RAY UNIT 1H

Farm Name: DAVID L. WEEKLEY REVOCA

U.S. WELL NUMBER: 47-085-10346-00-00

Horizontal 6A New Drill Date Issued: 4/27/2018

API Number:	

PERMIT CONDITIONS 4708510346

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

- 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.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	

PERMIT CONDITIONS 4708510346

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

WW-6B (04/15)

AP	I NO. 47-085 -	
	OPERATOR WELL NO.	Rey Unit 1H
	Well Pad Name: Week	ey Trust Pad

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

1) Well Operator: Antero Re	sources	Corpora	494507062	085 - R	itchie Clay	Pennsboro 7.5'
N. O. S. S. A. S.			Operator ID	County	District	Quadrangle
2) Operator's Well Number: R	ay Unit 1	Н	Well H	ad Name:	Weekley Trust	Pad
3) Farm Name/Surface Owner:	David Week	ley L. Revocal	Public R	oad Access	CR-2/5	
4) Elevation, current ground:	~1265'	Ele	evation, propose	d post-cons	struction: 1235	
5) Well Type (a) Gas X		Oil	Ur	derground	Storage	
Other						
(b)If Gas Sh	allow	X	Deep			/ 04
Ho	orizontal	X				2-6-18
6) Existing Pad: Yes or No No)			_		1-6-18
) Proposed Target Formation(s), Depth(s), Antici	pated Thickness	and Expec	ted Pressure(s):	
Marcellus Shale: 6800' TVD,	Anticipated	Thicknes	ss- 75 feet, Asso	ciated Press	ure- 2800#	
) Proposed Total Vertical Dep	th 6800	' TVD				
) Formation at Total Vertical I		Marcellus				-
0) Proposed Total Measured I		6700' MI				
	·	15				
1) Proposed Horizontal Leg L		445'				
2) Approximate Fresh Water S	Strata Dep	ths:	Offset well records.	Depths have	been adjusted accor	ding to surface elevations.
3) Method to Determine Fresh	Water De	epths: 3	38', 375'			
4) Approximate Saltwater Dep	oths: 172	8', 1753'				
5) Approximate Coal Seam De	epths: 88	7'				
6) Approximate Depth to Poss	ible Void	(coal mir	ne, karst, other):	None Ant	icipated	
7) Does Proposed well location	n contoin					
irectly overlying or adjacent to			Yes		No X	
/ \ rest						RECEIVED
(a) If Yes, provide Mine Info:	Name:					Office of Oil and G
	Depth:					FEB 0 9 2018
	Seam:					
	Owner:					WV Department of

API NO. 47- 085

OPERATOR WELL NO. Ray Unit 1H
Well Pad Name: Weekley Trust Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	425' *see #19	425' *see #19	CTS, 590 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	16700'	16700'	4185 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

MD C-18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Leasi-HPOZ & Tall - 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	RECEIVED Office of Oil and Ga

FEB 09 2018

WW-6B (10/14)

OPERATOR WELL NO. Ray Unit 1H
Well Pad Name: Weekley Trust Pad

7-6-18

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

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

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 32.87 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.15 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.

Office of Oil and Gas

*Note: Attach additional sheets as needed.

FEB 0 9 2018



		Woir	Greenhrier Bradford Riley Benson	4186 1902.4756		000
		Greenbrier, Bradford	Weir, Riley, Benson, Rhinestreet	4995 4529-5757		1000
		Producible Formation(s) not perf'd	Perforated Formations	Perforated Interval (shallowest, deepest)	(avrss) at	ELEV_GR
339	5016	COASTAL CORP THE	SCHULTZ RUN GAS	1	7095013050000 GREGG MILDRED	47095013050000
355	5995	J & J ENTERPRISES	ALLIANCE PETR CORP	JK-912	7085059220000 BISHOP OLEY J ETAL	47085059220000
TD Approximate Distance to Well	£	Hist Oper	Operator	Well Number	Well Name	UWI (APINum)

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Office of Oil and Gas

FEB 5 2018

WW-9 (2/15)

API Number 47 - 085

Operator's Well No. Ray Link 1H

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

FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Nort	ources Corporation	OP Code 494507062
		Quadrangle Pennsboro 7.5'
Do you anticipate using me	ore than 5,000 bbls of water to co	emplete the proposed well work? Yes No
Will a pit be used? Yes	No ✓	
If so, please descr	ribe anticipated pit waste:	il be used at this site (Drilling and Flowback Fluids will be stored in tenks, Cuttings will be tanked and houled off site.) No V If so, what m1.? N/A
Will a synthetic li	iner be used in the pit? Yes	No ✓ If so, what ml.? N/A
Proposed Disposa	al Method For Treated Pit Wastes	2
	Land Application	
		rmit Number *UIC Permit # will be provided on Form WR-34) mitted we'll locations when applicable. API# will be provided on Form WR-34)
		WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
	Other (Explain	Northwestern Landfill Permit #SWF-1025/ WV0109410
Will closed loop system be	used? If so, describe: Yes	
Drilling medium anticipate	ed for this well (vertical and horiz	ontal)? Air, freshwater, oil based, etc. Surface - Air/Reshwater, Intermediate - Duet/Stiff Foam, Production - Water Based Mud
	type? Synthetic, petroleum, etc.	
	ling medium? Please See Attachm	
		ved offsite, etc. Stored in tanks, removed offsite and taken to landfill
	[20] [20] [20] [20] [20] [20] [20] [20]	be used? (cement, lime, sawdust) N/A
-Landfill or offsite	e name/permit number? Meadow	fill Landfill (Permit #SWF-1032-98)
	facility. The notice shall be provide	d Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
West Virginia solid waste f where it was properly dispo- I certify that I und on August 1, 2005, by the Corovisions of the permit ar aw or regulation can lead to I certify under per application form and all a obtaining the information,	facility. The notice shall be provided as determined and agree to the terms and office of Oil and Gas of the West reenforceable by law. Violations to enforcement action. Enalty of law that I have personal attachments thereto and that, base	and conditions of the GENERAL WATER POLLUTION PERMIT issued a Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for is true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
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Onanataria	Wall M.	Ray Unit 1H

	nt: Acres Disturbed 32.87 a		1
Lime 2-4	Tons/acre or to correct to pl		
Fertilizer type Hay or st	traw or Wood Fiber (will be used	where needed)	
Fertilizer amount 500	11	bs/acre	
Mulch 2-3	Tons/	acre	
Access Road "A" -749' (2.72		eres) + Well Pad (8.15 acres) + Water Containment i les (7.63 acres) = 32.87 Acres	Pad (3.70 agres) + Excess/Topsoil
Temp	orary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See streched Teble IV-3 for additional seed type	(Weeldey Trust Pad Design Page 25)	See attached Table IV-4A for additional seed type	oc Wookley Trust Pad Design Page 25
*or type of grass seed reque	ested by surface owner	*or type of grass seed reque	sted by surface owner
Drawing(s) of road, location, pit provided)		plication (unless engineered plans in	cluding this info have be
Attach: Drawing(s) of road, location, pit provided) Photocopied section of involved Pian Approved by:		plication (unless engineered plans in	cluding this info have bee
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Drawing(s) of road, location, pit provided) Photocopied section of involved Plan Approved by:	7.5' topographic sheet.		
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Drawing(s) of road, location, pit provided) Photocopied section of involved Plan Approved by:	7.5' topographic sheet.	plication (unless engineered plans in Date: 2 - 6 - 1	

FEB 0 9 2018

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 Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene – Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

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911 Address 142 Jones Rd Pennsboro, WV 26415

Well Site Safety Plan **Antero Resources**

Well Name: Ray Unit 1H-3H, Swartzmiller Unit 1H-3H,

> Cingmars 1H-4H, Goliad Unit 1H-2H Michael Day

Pad Location: Weekley Trust Pad

Ritchie County/Clay District

GPS Coordinates:

Entrance - Lat 39°22′0.8292″/Long -80°54′54.8022″ (NAD83) Pad Center - Lat 39°22′18.2244″/Long -80°55′25.0998″ (NAD83)

Driving Directions:

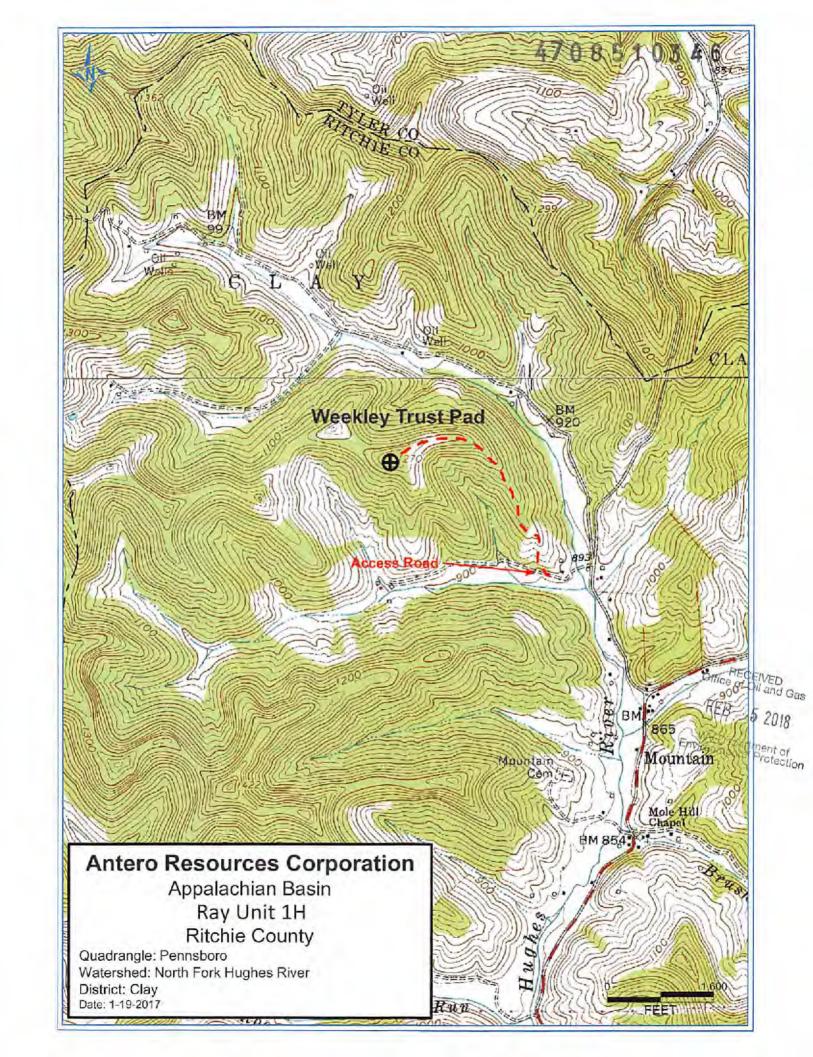
From the intersection of I79 and HWY 50: Travel west on US-50 for 28.7 miles. Turn right onto WV-18 N and head towards West Union. Turn Left onto Davis St/Old U.S. 50 W and continue for 0.4 miles. Turn right onto WV-18N/Sistersville Pike for 12.2 miles. Turn Left onto WV-74 S for 3.7 miles. Turn right onto Stull Hill Rd for 0.4 miles. Turn left onto Co Rd 2/5 for 0.1 miles. The access road will be on your right.

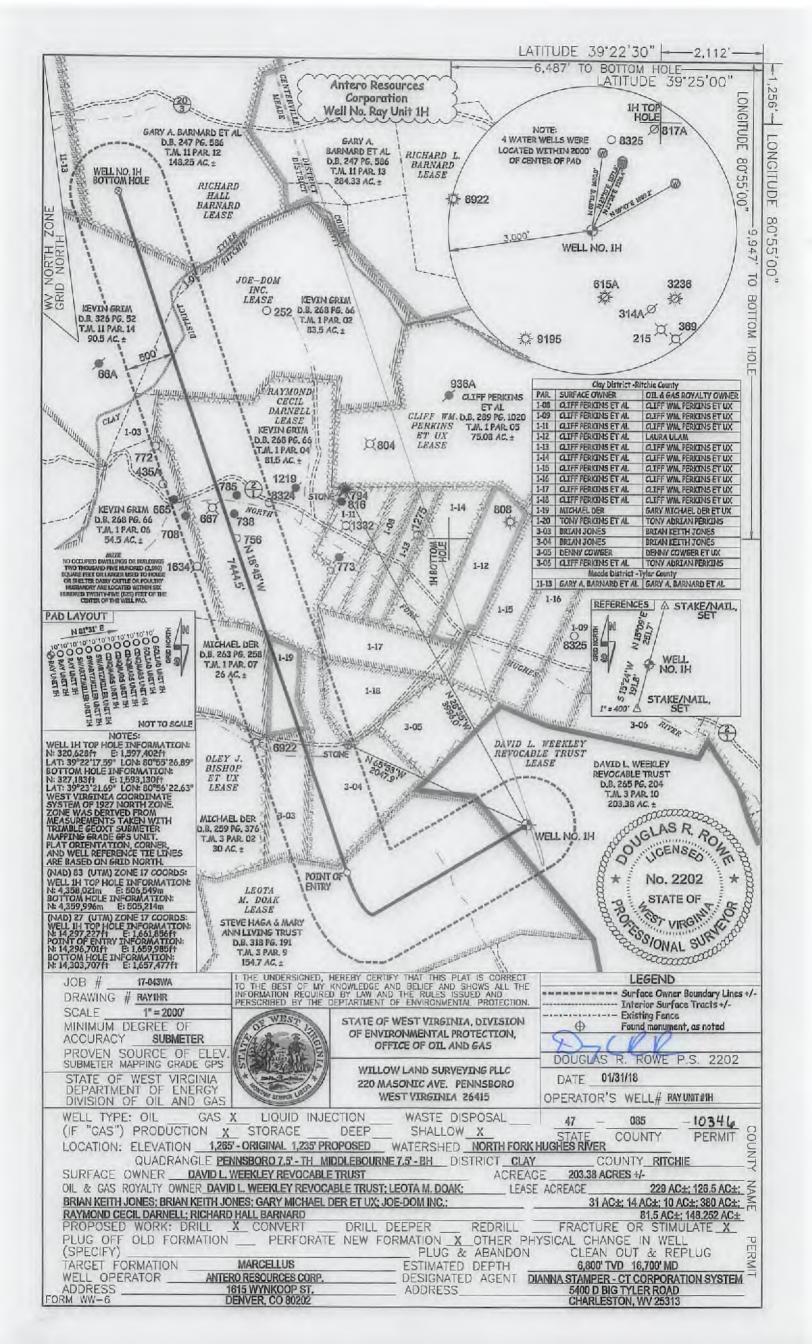
Alternate Route:

From the intersection of U.S. 50 E and WV-74 N/Pullman Rd: Travel north and turn left onto E Myles Ave/Old U.S. 50 E for 0.6 miles. Turn Right onto Grey St (0.2 miles), left onto E Penn Ave (0.1 miles), right onto 1st St (446 ft) and continue onto WV-74N/Mountain Dr for 7.2 miles. Turn left onto Stull Hill Rd for 0.4 miles. Turn left onto Co Rd 2/5 for 0.1 miles. The access road will be on your right.

EMERGENCY (24 HOUR) CONTACT 1-800-878-19-73 and Gas

FEB 0 9 2018





Operator's Well Number

Ray Unit 1H

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
David L. Weekley Revocable Trust Lease			
David L. Weekley Revocable Trust	Antero Resources Corporation	1/8+	0295/0030
Leota M. Doak Lease			
Leota M. Doak	Antero Resources Corporation	1/8+	0258/1005
Brian Keith Jones Lease (3-3-4) Brian Keith Jones	Antero Resources Corporation	1/8+	0303/0899
brian keith jones	Antero resources corporation	1/0*	0303/0033
Brian Keith Jones Lease (3-3-3)			
Brian Keith Jones	Antero Resources Corporation	1/8+	0303/0899
Gary Michael Der, et ux			
Gary Michael Der, et ux	Antero Resources Corporation	1/8+	0302/0788
Joe-Dom Inc. Lease (3-1-7)			
Joe Dom, Inc. Dominic Domino, President	Gene Stalnaker, Inc.	1/8	0160/0672
Gene Stalnaker, Inc.	Angus Energy, Inc.	Assignment	0212/0137
Angus Energy, Inc.	Stalnaker Energy Corporation	Name Change	Exhibit 2
Stalnaker Energy Corporation	Antero Resources Appalachian Corporation	Assignment	0258/0084
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Raymond Cecil Darnell Leaes			
Raymond Cecil Darnell	Antero Resources Corporation	1/8	0305/0292
Joe-Dom Inc. Lease			
Joe Dom, Inc. Dominic Domino, President	Gene Stalnaker, Inc.	1/8	0160/0672
Gene Stalnaker, Inc.	Angus Energy, Inc.	Assignment	0212/0137
Angus Energy, Inc.	Stainaker Energy Corporation	Name Change	Exhibit 2
Stalnaker Energy Corporation	Antero Resources Appalachian Corporation	Assignment	0258/0084
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.

WW-6A1 (5/13)

Operator's Well No	Ray Unit 1H	
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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:

Richard Hall Barnard Lease	Richard L. Barnard	Antero Resources Corporation	1/8+	0442/0067
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or				

^{*}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

Office of Oil and Gas
FEB 5 2018

WV Department of nvironmental Protection

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

Well Operator:	Antero Resources Corporation
By:	Kevin Kilstrom
Its:	Senior VP of Production

Revised 4/15

FORM WW-6A1 **EXHIBIT 1**

Form CF-4

WV012 - 0446/2011 Webis Kkmvr Odlise

Natallo E. Tennant. Scoretary of State 1900 Kanawha Bivd E Bldg 1, Suite 157-K Charleston, WV 25305

FILE ONE ORIGINAL (Two If you want a filted stamped copy returned to you) FEE: \$25:00



JUN 1 0 2013 Penney Barker, Manager IN THE OFFICE OF Corporations Division SECRETARY OF STATE Part (304)558-8000 Part (304)558-8381

Website: www.wvsos.com E-mall: business@wvsos.com

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY.

*** In accordance with the providens of the West Virginia Code, the undersigned corporation hereby ****

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

Name under which the corporation was authorized to transact business in WV:	Antero Resources Appalachian Corporation	
	6/25/2008	
(Attach one Certified Copy of Name Change	Antero Resources Corporation	
Name the corporation elects to use in WV:	Antero Resources Corporation	100
		gr n
:		
he filing, listing a contact person and phone nun	This is optional, however, if there is a problem with abor may avoid having to return or reject the	Office of Ol and
Alvyn A. Schopp	(303) 357-7310	· FEB 5 20
Contact Name	Phone Number	WV Department Environmental Prote
Signature information (See below * Innortant I	Legal Notice Reparding Signature):	
Signature information (See below *Innortant in Print Name of Signer: Aboyn A. Schopp	Legal Notice Reparding Signature): Title/Capsoity: Authorized Person	
	Date Certificate of Authority was issued in West Virginia: Corporate name has been changed to: (Attach one Certified Copy of Name Change as filed in home State of incorporation.) Name the corporation elects to use in WV: (due to home state name not being available) Other amendments: (attach additional pages if necessary) Name and phone number of contact person. (the filing, listing a contact person and phone number of council.) Alvyn A. Schopp	Date Certificate of Authority was issued in West Virginia: Corporate name has been changed to: (Attach one Certified Cony of Name Change as filled in home State of Incorporation.) Name the corporation elects to use in WV: (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 filling, listing a contact person and phone number may avoid having to return or reject the document.) Alvyn A. Schopp (303) 357-7310

listed by the Office of the Secretary of Sinte

FORM WW-6A1 EXHIBIT 2, PAGE 1



J. Ken Hechler, Lecretary of State of the State of West Virginia, hereby certify that

originals of the Artesian of Attendment to the Article of Inserta camera.

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RECEIVED Office of Oil and Gas

FEB 5 2018



WV SOS - Business and Licensing - Corporations - Online Data Services

Туре	Address	FORM WW-6A1
Local Office Address	220 WEST MAIN STREET GLENVILLE, WV, 26351	EXHIBIT 2, PAGE 2
Mailing Address	PO BOX 178 GLENVILLE, WV, 26351 USA	
Notice of Process Address	RON STALNAKER PO BOX 178 GLENVILLE, WV, 26351	
Principal Office Address	220 WEST MAIN STREET GLENVILLE, WV, 26351 USA	
Туре	Address	

Officers		
Туре	Name/Address	
Incorporator	GENE STALNAKER PO BOX 178 GLENVILLE, WV, 26351	
President	RON STALNAKER 391 RUFFED GROUSE DR BRIDGEPORT, WV, 26330	
Secretary	GINA STALNAKER 391 RUFFED GROUSE DR BRIDGEPORT, WV, 26330	
Туре	Name/Address	

Date	Amendment	
4/20/1998	CHANGE OF NAME FROM ANGUS ENERGY INC. ENERGY CORPORATION	TO STALNAMER of Oil and G
Date	Amendment	PEB 0 2011
Date	Amendment	WV Depart Environmenta

Annual Reports

Date filed

4/20/2016

2/20/2017

4/9/2015

4/21/2014

2/20/2013

5/3/2012



February 2, 2018

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

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

RE: Ray Unit 1H

Quadrangle: Pennsboro 7.5'

Ritchie County/Clay District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Ray Unit 1H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Ray Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely

Thomas Kuhn Senior Landman

RECEIVED Office of Oil and Gas

FEB 5 2018

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

Date of Notice Certification: 02/01/2018		47- 085 -	
	•	r's Well No. Ray Unit 11	
Notice has been given:	Well Pa	d Name: Weekley Trus	e Pad
Pursuant to the provisions in West Virginia Code	8 22-6A the Operator has provided the	required parties with	the Notice Forms listed
below for the tract of land as follows:	3 22 or i, the operator has provided the	required parties with	ino recioo i cimb notos
State: West Virginia	LITM NAD 92 Easting:	506549m	
County: Ritchie	UTM NAD 83 Porthin		
District: Clay	Public Road Access:	CR 2/5	
Quadrangle: Pennsboro 7.5'	Generally used farm name	David L. Weekley Rev	ocable Trust
Watershed: North Fork Hughes River			
prescribed by the secretary, shall be verified and sit has provided the owners of the surface descriinformation required by subsections (b) and (c), so of giving the surface owner notice of entry to so requirements of subsection (b), section sixteen of Virginia Code § 22-6A-11(b), the applicant shall of this article have been completed by the applicant	bed in subdivisions (1), (2) and (4), section sixteen of this article; (ii) that the urvey pursuant to subsection (a), section this article were waived in writing tender proof of and certify to the secret	ubsection (b), section requirement was deep on ten of this article s by the surface owner	ten of this article, the med satisfied as a result six-a; or (iii) the notice and Pursuant to West
Pursuant to West Virginia Code § 22-6A, the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY			OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BEG SEISMIC ACTIVITY WAS COND		RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURVEY WAS	CONDUCTED	RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BEG NOTICE OF ENTRY FOR PLAT SU WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURI (PLEASE ATTACH)	FACE OWNER	RECEIVED Office of Oil and Gas
■ 4. NOTICE OF PLANNED OPERATION			RECEIVED
■ 5. PUBLIC NOTICE			RECEIVED W/ Department
6. NOTICE OF APPLICATION			Environmental Protection 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.

WW-6AC (1/12)

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: Antero Resources Corporation, By: Kevin Kilstrom

Its: Senior VP of Production

Telephone: 303-357-7310 Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: kquackenbush@anteroresources.com

CKENBUSH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20144028297 MY COMMISSION EXPIRES JULY 21, 2018 Subscribed and sworn before me this 1^{S+} day of FROMAN 2018

Notary Public

Notary Public

My Commission Expires

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.

> RECEIVED Office of Oil and Gas

> > 5 2018

WW-6A (9-13) API NO. 47- 085 OPERATOR WELL NO. Ray Unit 1H
Well Pad Name: Weekley Trust Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 2/2/2018 Date Permit Application Filed: 2/2/2018 Notice of: ✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL 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) ☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: David L. Weekley Revocable Trust FIGGIVED Address: 16191 Ellsworth Road Address: Affice of Offerlid Gas Berlin Center, OH 44401 Name: COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: W. Der. ir mental Protection ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: David L. Weekley Revocable Trust WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE *PLEASE NOTE THERE ARE 4 WATER Address: 16191 Ellsworth Road SOURCES SHOWN, HOWEVER THEY ARE Name: NONE IDENTIFIED WITHIN 1500' Berlin Center, OH 44401 LOCATED GREATER THAN 1500 FROM THE SUBJECT PAD LOCATION Name: Address: Address: DOPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

WW-6A (8-13) RECEIVED Office of Oil and Gas

FEB 5 2018

4708510346

API NO. 47- 085
OPERATOR WELL NO. Ray Unit 1H
Well Pad Name: Weekley Trust Pad

Notice is hereby given: WV Department of Environmental Protection

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 WW-6A (8-13)

API NO. 47-<u>085</u> -

OPERATOR WELL NO. Ray Unit 1H

Well Pad Name: Weekley Trust Pad

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 file of an 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

WV Department of Environmental Protection

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.

WW-6A (8-13) API NO. 47- 085

OPERATOR WELL NO. Ray Unit 1H

Well Pad Name: Weekley Trust Pad

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. 47-086 7-0 8 5 1 0 3 4 6
OPERATOR WELL NO. Ray Unit 1H
Well Pad Name: Weekley Trust Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310
Email: kquackenbush@antercresources.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 deprivacyofficer@wv.gov.

KARA QUACKENBUSH
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20144028297
MY COMMISSION EXPIRES JULY 21, 2018

Subscribed and sworn before me this 2nd day of FUNAW 2018

Notary Public My Commission Expires 1114 21, 2018

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FEB 5 2018

WW-6A4 (1/12) Operator Well No. Ray Unit 1H

Multiple Wells on Weekley Trust Pad

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.

		ded at least TEN (10) days prior to filing a e Permit Application Filed: 02/02/2018	s permit application.
Delivery	method pursuant to West Virginia Coo	de § 22-6A-16(b)	
☐ HAN	ND CERTIFIED MAIL		
DEL	IVERY RETURN RECEIPT	REQUESTED	
receipt red drilling a of this sub subsection	quested or hand delivery, give the surface horizontal well: <i>Provided</i> , That notice gosection as of the date the notice was pron may be waived in writing by the surface	e owner notice of its intent to enter upon a given pursuant to subsection (a), section to vided to the surface owner: <i>Provided</i> , ho	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this clude the name, address, telephone number, or's authorized representative.
Notice is	hereby provided to the SURFACE	COWNER(s):	
	David L. Weekley, Revocable Trust UTA	Name:	
	16191 Ellsworth Rd.	Address:	
	Berlin Center, OH 44401		
the surfac State: County: District:	e owner's land for the purpose of drilling West Virginia Ritchie Clay	g a horizontal well on the tract of land as f UTM NAD 83 Rotthing: Public Road Access:	ollows: 506577.50m (Approximate Pad Center) 4358031.88m (Approximate Pad Center) CR-2/5
Quadrang		Generally used farm name:	David Weekley Revocable Trust
Watershee			
Pursuant facsimile related to	number and electronic mail address of horizontal drilling may be obtained from	the operator and the operator's authorize m the Secretary, at the WV Department	lress, telephone number, and if available, zed representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
	s hereby given by:		
Well Ope	rator: Antero Resources Corporation	Authorized Representative	: Kara Quackenbush
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.
	Denver, CO 80202		Denver, CO 80202 Office of Oil and Gas
Telephone	e: <u>303-357-7233</u>	Telephone:	303-357-7233
Email:	kquackenbush@anteroresources.com	, Email:	kquackenbush@anteroresources.com 5 2018
Facsimile	303-357-7315	Facsimile:	303-357-7315 WA/ Donney
			WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator Well No. Ray Unit 1H

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

Notice Date o	Time R of Notice:	equirement: notice shall be provided no O2/02/2018 Date Permit App	later than the filing plication Filed: 02/0		application.
Delive	ery metho	od pursuant to West Virginia Code § 22	2-6A-16(c)		
	CERTIFI	ED MAIL 🔲 1	HAND		
	RETURN	RECEIPT REQUESTED	DELIVERY		
return the pla require drilling damag (d) Th of noti	receipt reanned oped to be pg of a houses to the e notices ce.	equested or hand delivery, give the surface eration. The notice required by this subservioled by subsection (b), section ten of rizontal well; and (3) A proposed surface affected by oil and gas operations required by this section shall be given to	te owner whose land osection shall include this article to a surface use and compens to the extent the dather the surface owner a	I will be used for de: (1) A copy ace owner whos ation agreemen amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
		y provided to the SURFACE OWNER isted in the records of the sheriff at the tire.			
Name:		. Weekley Revocable Trust	Name:		
		Ilsworth Road	Address		
		Center, OH 44401			
	ion on th y: t: angle:	st Virginia Code § 22-6A-16(c), notice is e surface owner's land for the purpose of West Virginia Ritchie Clay Pennsboro 7.5' North Fork Hughes River	drilling a horizonta UTM NAD 8 Public Road A	I well on the tra Easting: Northing:	
Pursua to be horizo surface inform headqu	ant to We provided ntal well; e affected nation reli	by W. Va. Code § 22-6A-10(b) to a substant (3) A proposed surface use and combined by oil and gas operations to the extent attent to horizontal drilling may be obtain ocated at 601 57th Street, SE, Charles	reface owner whose npensation agreementhe damages are contained from the Secret	land will be unt containing an ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

January 30, 2018

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

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 Weekly Trust Pad, Ritchie County
Ray Unit 1H Well site

Dear Mr. Martin,

Jim Justice

Governor

This well site will be accessed from a DOH permit #03-2014-0551 which has been issued to Antero Resources Corporation for access to the State Road for a site located off of Ritchie County Route 2/5 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.

Jan K. Clayton

Regional Maintenance Engineer

Central Office O&G Coordinator

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Office of Oil and Gas

FEB 5 2018

WV Department of Environmental Protection

Cc: Kara Quickenbush Antero Resources Corporation CH, OM, D-3 File

List of Anticipated Additives Used for Fracturing 8r⁵ 1 0 3 4 6 Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)	
Fresh Water	7732-18-5	1
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	1
Ammonium Persulfate	7727-54-0	1
Anionic copolymer	Proprietary	1
Anionic polymer	Proprietary	1
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	1
Cellulase enzyme	Proprietary	1
Demulsifier Base	Proprietary	1
Ethoxylated alcohol blend	Mixture	
Ethoxylated Nonylphenol	68412-54-4	1
Ethoxylated oleylamine	26635-93-8	1
Ethylene Glycol	107-21-1	1
Glycol Ethers	111-76-2	
Guar gum	9000-30-0	1
Hydrogen Chloride	7647-01-0	1
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
Isopropyl alcohol	67-63-0	1
iquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	1
Microparticle	Proprietary	1
Petroleum Distillates (BTEX Below Detect)	64742-47-8	1
Polyacrylamide	57-55-6	1
Propargyl Alcohol	107-19-7	1
Propylene Glycol	57-55-6	1
Quartz	14808-60-7	1
Sillica, crystalline quartz	7631-86-9	1
Sodium Chloride	7647-14-5	1
Sodium Hydroxide	1310-73-2	
Sugar	57-50-1	
Surfactant	68439-51-0	
Suspending agent (solid)	14808-60-7	
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester	67784-80-9	
Copolymer of Maleic and Acrylic Acid	52255-49-9]
DETA phosphonate	15827-60-8	
Hexamthylene Triamine Penta	34690-00-1]
Phosphino Carboxylic acid polymer	71050-62-9]
Hexamethylene Diamine Tetra	23605-75-5 Offic	RECEIVED e of Oil and Ga
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	J_
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	B 5 2018
Diethylene Glycol	111-46-6 WV	Department of
Methenamine	100-97-0 Enviror	Department of mental Protect
Polyethylene polyamine	68603-67-8	
Coco amine	61791-14-8	
2-Propyn-1-olcompound with methyloxirane	38172-91-7	

WEEKLEY TRUST WELL PAL δο

LOCATION COORDINATES
ACCESS ROAD ENTRANCE
LATITUDE: 99.366897 LONGITUDE:
N 4357496.20 E 507302.94 (UTM ZONE 17 METERS)

CENTER OF TANK ATITUDE: 39.369138 38 LONGITUDE: 507175.49 -80.916700 (NAD 83) (UTM ZONE 17 METERS)

CENTROID OF PAD LATITUDE: 39.371729 LONGITUDE: N 4358031.88 E 506577.50 (UTM ZONE 17 METERS)

WVDEP OOG 3/15/2017

GENERAL DESCRIPTION
THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD
THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS ARE BEING CONSTRUCTED 70 AID Z

FLOODPLAIN NOTE THE PROPOSED SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD

MISS UTILITY STATEMENT

ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR UTILITIES PRIOR TO THIS PROJECT DESIGN, TICKET \$1421955465. IN ADDITION, MISS CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS R THE LOCATING OF S UTILITY WILL BE S PROJECT.

MAP

#540B5C0125C

ENTRANCE PERMIT
ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENGROACHMENT PERMIT (FORM MM-108) FROM THE WEST VERGINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES
STREAM AND WETLAND DELINGATIONS WERE PERFORMED IN JUNE, 2012, & REEVALUATED MAY, 2015 &
SEPTEMBER, 2015 BY ALISTAR ECOLOGY, LLC TO REVIEW THE SITE, FOR WATERS AND WETLANDS THAT ARE
MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ANY CORPS OF ENGINEERS (USACE) AND/OR
THE WEST VIRGINA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WYDED) THE OCTOBER 16, 2015 STREAM
& WETLAND DELINEATION MAP WAS PERPARED BY ALISTAR ECOLOGY, LLC AND SUMMARZIES THE RESULTS
OF THE TELL DELINEATION, THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL
DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE
USACE OR THE WYDEP.

GEOTECHNICAL NOTE

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. BETWEEN AUGUST 13, 2014 & SEPTEMBER 06, 2014. THE REPORT PERPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATES SEPTEMBER 22, 2014, REVISED NOVEMBER 10, 2016, REPLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS, PLEASE REFER TO THE SUBSURFACE INVESTIGATION OF THE SUBSURFACE INVESTIGATION.

PROJECT CONTACTS

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

JON MCEYERS - OPERATIONS SUPERINTENDENT OFFICE (303) 357-6789 CELL (303) 808-2423 ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE: (304) 842-4068 CELL: (304) 476-9770

AARON KUNZLER - CONSTRUCTION SUPERVISOR CELL: (405) 227-8344

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

CHARLES E. COMPTON, III - SURVEYING COORDINATOR CELL: (304) 719-6449

RENEE HECKEL - LAND AGENT CELL: (304) 614-7053

ENGINEER/SURVEYOR.

ANATUS ENGINEERING, INC.

CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER

OFFICE: (888) 862-4185 CELL: (540) 886-6747

ALISTAR ECOLOGY, LLC RYAN L WARD - ENVIRONMENTAL SCIENTIST OFFICE: (866) 213-2566 CELL: (304) 692-7477 ENVIRONMENTAL: ALLSTAR ECOLOGY, LLC RYAN L WARD - ENVIRO

GEOTECHNICAL:
PENNSYLVANIA SOIL & ROCK, INC.
CHRISTOPHER W. SAMOS-PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 569-0662

- RESTRICTIONS NOTES:

 1. There are no perennial streams, laxes, ponds, or reservoirs within 100 feet of the well pad and lod. There is a wetland adjacent to access road "a" that will remain undisturbed.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD WATER SUPPLY FACILITIES DOOL NIHLIA OF THE
- 4 WELL PAD AND GROUNDWATER INTAKE OR PUBLIC LOD.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
- U THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD
- 9 THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 CENTER OF THE WELL PAD. FEET OF THE

APPROVED

EROSION & SEDIMENT SITE DESIGN & CONS

CABIN RUN-NORTH FORK HUGH CLAY DISTRICT, RITCHIE COL

USGS 7.5 MIDDLEBOURNE & PE





WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

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 CAS CRS 35-B.

REPRODUCTION NOTE

PAPER. HALF SCALE DRAWINGS ARE PLOTTED ON (ANSI B) 8 PAPER E

THESE PLANS WERE REPRODUCTIONS IN GRAY INFORMATION AND SHOULD SCALE OR COLOR MAY RESULT IN A
NOT BE USED FOR CONSTRUCTION A LOSS OF N PURPOSES

RUCTION NTAINMENT PAD

VSBORO QUAD MAPS TY, WEST VIRGINIA S RIVER WATERSHED





WEST VIRGINIA STATE PLANE COORDINATE SYSTEM NORTH ZONE, NAD83 ELEVATION BASED ON NAVD88 ESTABLISHED BY SURVEY GRADE GPS & OPUS POST-PROCESSING

Total Wooded Acres Disturbed	Total Affected Area	Excess/Topsoil Material Stockpiles	Water Containment Pad	Well Pad	Access Road "B" (2,486')	Access Road "A" (749")	Impacts to David L. Weekley, Trustee of the David L. Weekley Revocable Trust UTA TM 3-10	Total Site
30.22	32.87	7.63	3.70	8.15	10.67	2.72	We	

30.22	Total Wooded Acres Disturbed
32.87	Total Affected Area
7.63	Excess/Topsoil Material Stockpiles
3.70	Water Containment Pad
8.15	Well Pad
10.67	Access Road "B" (2,486')
2.72	Access Road "A" (749")
L Weekley	Impacts to David L. Weekley, Trustee of the David L. Weekley Revocable Trust UTA TM 3-10
	Total Site
REA (AC)	WEEKLEY TRUST LIMITS OF DISTURBANCE AREA (AC)

COVER SHEET CONSTRUCTION AND E&S CONTROL NOTES LEGEND

MATERIAL QUANTITIES

MATERIAL PAINAGE COMPUTATIONS

STORM DRAINAGE COMPUTATIONS

EXISTING CONDITIONS, STRUCTURES & FEATURES

OVERALL PLIM SHEET INDEX & VOLUMES

ACCESS ROAD PLAN

WELL PAD PLAN

WELL PAD GRADING PLAN

ACCESS ROAD & CULTERT PROPILES

ACCESS ROAD & STOCTONE

PELL PAD & WATER CONTAINMENT PAD SECTIONS

WELL PAD & WATER CONTAINMENT PAD SECTIONS

WELL PAD & WATER CONTAINMENT PAD SECTIONS

WELL PAD & WATER CONTAINMENT PAD SECTIONS

STOCKPILE SECTIONS

ER CONTAINMENT PAD SECTIONS MATER CONTAINMENT PAD

COVER SHEET

WEEKLEY TRUST

WELL PAD & WATER CONTAINMENT PAD CLAY DISTRICT RITCHIE COUNTY, WEST VIRGINIA



WVDOH COUNTY ROAD MAP

DATE	REVISION
12/16/2015	UPDATED PER SURFACE CONFIG
09/14/2016	UPDATED PER SURFACE CONFIG
01/18/2017	REVISED FOR CONSTRUCTION
02/16/2017	REVISED PER DEP COMMENTS



Telephone: (888) 662-4185 | www.NavitusEng.com



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!!

in

