

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

Permit approval for SWARTZMILLER UNIT 2H Re: 47-085-10350-00-00

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: SWARTZMILLER UNIT 2H Farm Name: DAVID L. WEEKLEY REVOCA

U.S. WELL NUMBER: 47-085-10350-00-00

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

API Number:	

PERMIT CONDITIONS 4708510350

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

CONDITIONS

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

API Number:	
	

PERMIT CONDITIONS 4708510350

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)

	Well Pad Na	me: Weekl	ey Trust Pad
	OPERATOR V	VELL NO.	Swartzmiller Unit 2H
API	NO. 47-085	-	

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

1) Well Operator:	Antero Res	ources Corpor	494507062	085 - Ritchie Clay	Pennsboro 7.5'
			Operator ID	County Distri	ict Quadrangle
2) Operator's Wel	l Number: Sv	vartzmiller Unit	2H Well P	ad Name: Weekley Tru	ust Pad
3) Farm Name/Su	rface Owner:	David Weekley L. Revoc	able Trust Public Re	oad Access: CR-2/5	
4) Elevation, curre	ent ground:	~1265' E	levation, propose	d post-construction: 12	35'
5) Well Type (a) Gas X ther	Oil	Un	derground Storage	
		llow X	Deep		, 19
	Hor	rizontal X			2-Co-18
6) Existing Pad: Y	es or No No			_	2-6-18
				and Expected Pressure ciated Pressure- 2800#	(s):
8) Proposed Total	Vertical Dept	h: 6800' TVD			
9) Formation at To	otal Vertical D	epth: Marcellu	s		
10) Proposed Tota	l Measured D	epth: 15200' N	MD		
11) Proposed Hori	izontal Leg Le	ngth; 7375'			
12) Approximate l	Fresh Water S	trata Depths:	Offset well records.	Depths have been adjusted a	ccording to surface elevations.
13) Method to Det	termine Fresh	Water Depths:	338', 375'		
14) Approximate			3'		
15) Approximate (Coal Seam De	pths: 887'			
			ine, karst, other):	None Anticipated	
17) Does Proposed directly overlying			Yes	No X	
(a) If Yes, provid	de Mine Info:	Name:			RECEIVED
***		Depth:			Office of Oil and Gas
		Seam:			FEB 0 9 2018
		Owner:			
					WV Department of Environmental Protection

WW-6B (04/15) API NO. 47- 085 -

OPERATOR WELL NO. Swartzmiller Unit 2H

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#	15200'	15200'	3772 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

2-6-18

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

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FEB 0 9 2018 Page 2 of 3

> W04/27/2018 Environmental Protection

4708510350

API NO. 47- 085

OPERATOR WELL NO. Swartzmiller Unit 2H

Well Pad Name: Weekley Trust Pad

mac 8

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.

^{*}Note: Attach additional sheets as needed.



No wells exist within a 500' radius of the wellbore that are reasonably expected to penetrate a depth that could be within the range of fracture propagation; therefore no additional details (perforated formation, producing zones etc.) are required as outlined in 35CSR8-5.11



AOR

1,000

FEET

WELL SYMBOLS

January 22, 2018

Office of Oil and Gas

FEB 5 2018

WV Department of Carlo 127/2048 on

WW-9 (2/15)

API Number 47	_ 085		
Operator	's Well No.	Swartzmiller Unit 2H	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

	- 12	
W	DC	V
1	6-1	0
2		

FLOIDS/ COTTINGS DIS	Brosal & Reclamation Flan	d
Operator Name Antero Resources Corporation	OP Code 494507062	
Watershed (HUC 10) North Fork Hughes River	Quadrangle Pennsboro 7.5'	
Do you anticipate using more than 5,000 bbls of water to com. Will a pit be used? Yes No	aplete the proposed well work? Yes No	
	e used at this site (Orilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauted	off site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
Underground Injection (UIC Perm	nit Number *UIC Permit # will be provided on Form WR-34	
Reuse (at API Number Future permitt	ted well locations when applicable. API# will be provided on Form WR-34	
Off Site Disposal (Supply form W Other (Explain_	W-9 for disposal location) (Meadowfill Landfill Permit #SWI Northwestern Landfill Permit #SWI WV0109410	
Will closed loop system be used? If so, describe: Yes		
Orilling medium anticipated for this well (vertical and horizon	ntal)? Air, freshwater, oil based, etc. Surfece-Ab//Treshwater, intermediat	e- lesed Mud
-If oil based, what type? Synthetic, petroleum, etc.	N/A	
Additives to be used in drilling medium? Please See Attachme	int	
Prill cuttings disposal method? Leave in pit, landfill, removed		fitt
-If left in pit and plan to solidify what medium will b		
-Landfill or offsite name/permit number? Meadowfill	TEATHORN (FERTILL BOVVI - 1002-00)	
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provide where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected within 24 hours of rejection and the permittee shall also	ed at any disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action.	of any term or condition of the general permit and/or other than the information submed on my inquiry of those individuals immediately restrue, accurate, and complete. I am aware that there a bility of fine or imprisonment.	stand that the ner applicable nitted on this sponsible for re significant
Company Official (Typed Name) Shawn Donovan	STATER	ACKENBUR
Company Official Title Environmental Specialist III	FEDMANA, 20 18	ACKENBUSH PUBLIC POLORA
- Charles - Carlotte -	MSSION EXP	14402820~
Subscribed and swarp before me this 200	FEDMANA, 20 18	JULY 21, 2010
Subscribed and sworn before me this day of	0	RECEIVED Office of Oil and 0
My commission expires JUIN 21, 2018		
My commission expires UNIV 211 2016		FES 09 2011
	Env	04/27/201 wv Department dironmental Protection

Operator's Well No. Swartzmiller Unit 2H

	The Park to the State of		
Proposed Revegetation Treatme	nt: Acres Disturbed 32.87 a	cres Prevegetation pl	A
Lime 2-4	Tons/acre or to correct to pl		
Fertilizer type Hay or st	raw or Wood Fiber (will be used	where needed)	
Fertilizer amount 500		bs/acre	
Mulch_ 2-3	Tons/	acre	
Access Road "A" -749' (2.72		cres) + Well Pad (8.15 acres) + Water Containment I les (7.63 acres) = 32.87 Acres	Pad (3,70 acres) + Excess/Topsoil
Тетр	orary	Perms	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional seed type	(Weekley Trust Pad Design Page 25)	See attached Table IV-4A for additional seed type	ne Weekley 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
Attach: Drawing(s) of road, location, pit provided) Photocopied section of involved		plication (unless engineered plans in	cluding this info have bed
Drawing(s) of road, location, pit provided)		plication (unless engineered plans in	cluding this info have bee
Drawing(s) of road, location, pit provided) Photocopied section of involved		plication (unless engineered plans in	cluding this info have bee
Drawing(s) of road, location, pit provided) Photocopied section of involved Plan Approved by: McL		plication (unless engineered plans in	cluding this info have bee
Drawing(s) of road, location, pit provided) Photocopied section of involved Plan Approved by: McL		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: Mich	7.5' topographic sheet.		
Drawing(s) of road, location, pit provided) Photocopied section of involved Plan Approved by: Mich Comments:			

HES 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 Congor 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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FEB 5 2018



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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Office of Oil and Gas

FEB 5 2018

WV Department of Environmental Protection



911 Address 142 Jones Rd Pennsboro, WV 26415

Well Site Safety Plan Antero Resources

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

> Cinqmars 1H-4H, Goliad Unit 1H-2H Michael John

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.

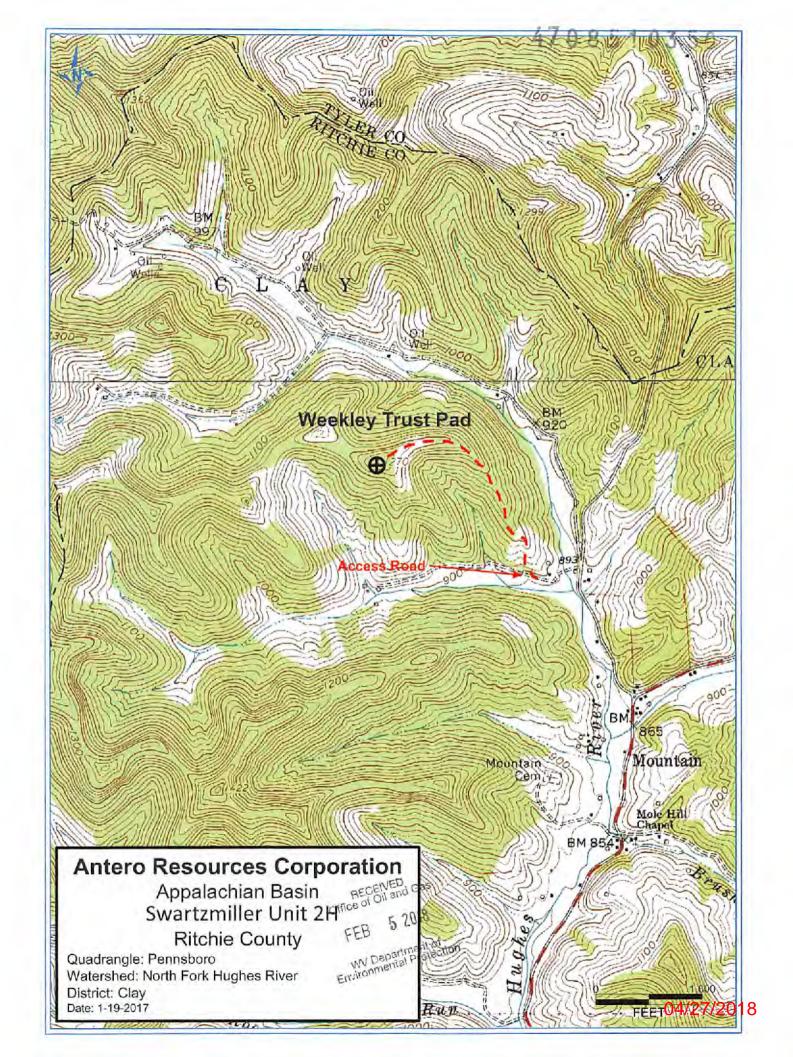
Alternate Route:

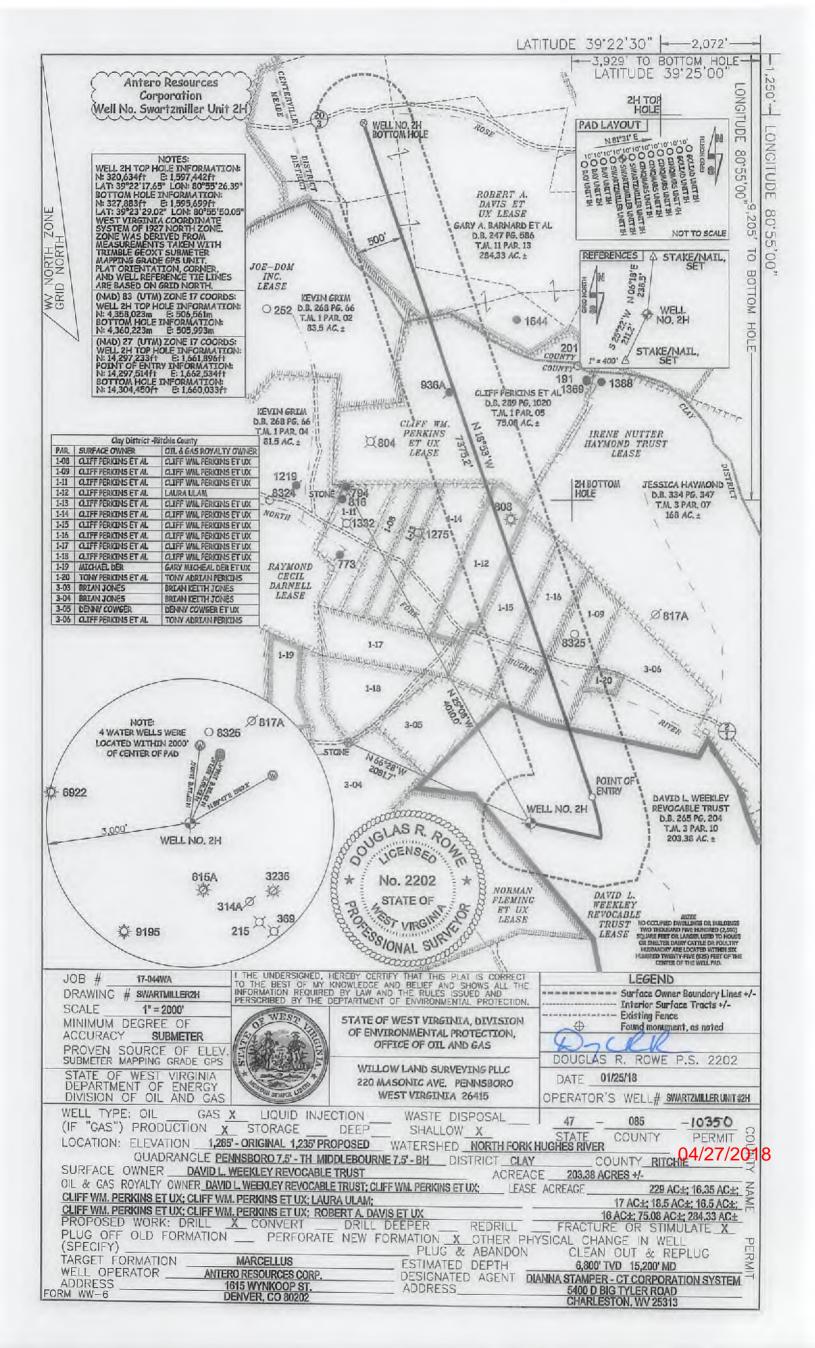
From the intersection of U.S. 50 E and WV-74 N/Pullman Rd: Travel north and turn left onto E Myles Ave/Old U.S. 50 E for 0.6 miles. Turn Right onto Grey St (0.2 miles), left onto E Penn Ave (0.1 miles), right onto 1st St (446 ft) and continue onto WV-74N/Mountain Dr for 7.2 miles. Turn left onto Stull 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. RECEIVED

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

FE. 09 2018

WV Department of





Operator's Well Number

Swartzmiller 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
David L. Weekley Revocable Trust Lease David L. Weekley Revocable Trust	Antero Resources Corporation	1/8+	0295/0030
<u>Tony Adrian Perkins Lease</u> Tony Adrian Perkins	Antero Resources Corporation	1/8+	0266/0040
Cliff Wm. Perkins, et ux Lease (3-1-9) Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0262
Cliff Wm. Perkins, et ux Lease (3-1-16) Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0292
Cliff Wm. Perkins, et ux Lease (3-1-15) Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0286
<u>Laura Ulam Lease</u> Laura Ulam	Antero Resources Corporation	1/8+	0278/0088
Cliff Wm. Perkins, et ux Lease (3-1-14) Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0280
Cliff Wm. Perkins, et ux Lease (3-1-5) Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0268

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APR 2 6 2018

WV Department of Environmental Protection

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

W	W-6A
(5)	(13)

Operator's Well No.	Swartzmiller Unit 2H
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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)

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

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Robert A. Davis, et ux Lease				12 Car 2
	Robert A. Davis & Elizabeth A. Davis	Chesapeake Appalachia, LLC	1/8	0374/0413
	Chesapeake Appalachia, LLC	SWN Production	Assignment	0465/0463
	SWN Production Company	Antero Resources Corporation	Name Change	0544/0242

^{&#}x27;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 and Gas

Well Operator:	Antero Resources	Corpo	ation	FEB	5 2018
By:	Kevin Kilstrom	w			eartment of
Its:	Senior VP of Produ	uction		nvironme	ntal Protection

Page 1 of

FILED

Natalie E. Tennant. Scoretary of State 1900 Kanawha Bivd B Bldg 1, Sulte 157-K



Penney Barker, Manager

IN THE OFFICE OF Corporations Division CRETARY OF STATE Tel: (304)558-8000 Website: www.wysos.com Charleston, WV 25305 E-mall: business@wvsos.com APPLICATION FOR FILE ONE ORIGINAL (Two if you want a filed AMENDED CERTIFICATE Office Hours: Monday - Friday stamped copy returned to you) 8:30 a.m. - 5:00 p.m. BT OF AUTHORITY. FEE: \$25:00 **** In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby **** applies for an Amended Cortificate of Authority and submits the following statement: 1. Name under which the corporation was Antero Resources Appalachian Corporation authorized to transact business in WV: 2. Date Certificate of Authority was 6/25/2008 issued in West Virginia: Antero Resources Corporation 3. Corporate name has been changed to: (Attach one Certified Copy of Name Change as filed in home State of incorporation.) Antero Resources Corporation 4. Name the corporation elects to use in WV: (due to home state name not being available) 5. 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.) (303) 357-7310 Alwyn A. Schopp Phone Number Contact Name 7. Signature information (See below *Important Legal Notice Regarding Signature): Title/Capacity; Authorized Person Print Name of Signer: Abyn A. Schop June 10, 2013 Signature: Date: *I*mperiant Lexal Notice Regarding Stanaturg*: Per West Virginia Code <u>6311)-1-129</u>. Penalty for signing false decument. RECEIVED 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 misdomeaner and, upon conviction thereof, shall be fixed not more than one Office of Oil and Gas thousand dollars or confined in the county or regional jail not more than one year, or both. 5 2018 FEB listed by the Office of the Secretary of State . Porm CF-4

WV Department of Environmental Protection

WV612 - 544 6/3011 Wokins Kkmyr Odlisa

FORM WW-6A1 EXHIBIT 2, PAGE 1



J. Hen Hechler, Lecetary of State of the State of West Tirginia, hereby certify that

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FEB 5 2018

WV Department of Environmental Protection

Туре	Address	EODM MAY CAN
Local Office Address	220 WEST MAIN STREET GLENVILLE, WV, 26351	FORM WW-6A1 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. TO STALNAKER ENERGY CORPORATION
Date	Amendment

Annual Reports	
Date filed	
4/20/2016	RECEIVED Office of Oil and G
2/20/2017	FEB 5 2018
4/9/2015	WV Department o Environmental Prote
4/21/2014	Environmental Protection
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: Swartzmiller Unit 2H

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 Swartzmiller Unit 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Swartzmiller Unit 2H 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

FFB 5 2018

WW Department of privilentiantal Protection Date of Notice Certification: 02/01/2018

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

API No. 47- 085

				Well No. Swar	
			Well Pad N	Name: Weekley	Trust Pad
Notice has be	oeen given: ne provisions in West Virginia Code § tract of land as follows:	22-6A, the Operator has pro-	vided the rec	quired parties w	vith the Notice Forms listed
State:	West Virginia		Eastings	EDGER4	
County:	Ritchie	UTM NAD 83	Easting: Northing:	506561m 4358023m	
District:	Clay	Public Road Acc	_	CR 2/5	
Quadrangle:	Pennsboro 7.5'	Generally used fa		David L. Weekley	Revocable Trust
Watershed:	North Fork Hughes River		iiii iiuiiio.		
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sled the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applican	hall contain the following informed in subdivisions (1), (2) a ction sixteen of this article; (in the present the subsection (and the present the subsection (but the present	ormation: (14 nd (4), substitute (4), substitute (a), section writing by	4) A certification (b), section (b), section (b), section (b), section (c), section	on from the operator that (i) stion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice yner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the required		nis Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO1	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURV	EY WAS CO	ONDUCTED	□ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUII NOTICE OF ENTRY FOR WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER (PLEASE ATTACH)		CE OWNER	
■ 4. NO	ΓΙCE OF PLANNED OPERATION				RECEIVED
■ 5. PUE	BLIC NOTICE				RECEIVED
■ 6. NO	TICE OF APPLICATION				☐ 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 Codes 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of posteral service, the return receipt card or other postal receipt for certified mailing.

WV Department of Environmental Protection 04/27/2018

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.

Email:

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

kquackenbush@anteroresources.com

KARA QUAOWEMRVSEAL NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20144028297 MY COMMISSION EXPIRES JULY 21, 2018 Subscribed and sworn before me this 154 day of FCOWAY 2018

Notary Public

My Commission Expires JWW 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.

RECEIVED Gas

FEB 5 2018

WV Department of Environmental Protection WW-6A (9-13)

API NO, 47- 085 OPERATOR WELL NO. Swartzmiller Unit 2H
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 in	no later than the filing date of permit application.
Date of Notice: 2/2/2018 Date Permit Application Notice of:	Filed: 2/2/2018
	TE OF APPROVAL FOR THE TION 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
sediment control plan required by section seven of this at the surface of the tract on which the well is or is propose oil and gas leasehold being developed by the proposed w described in the erosion and sediment control plan submit operator or lessee, in the event the tract of land on which more coal seams; (4) The owners of record of the surface well work, if the surface tract is to be used for the placen impoundment or pit as described in section nine of this a have a water well, spring or water supply source located provide water for consumption by humans or domestic at proposed well work activity is to take place. (c)(1) If most subsection (b) of this section hold interests in the lands, to records of the sheriff required to be maintained pursuant provision of this article to the contrary, notice to a lien her	s a receipt or signature confirmation, copies of the application, the erosion and riticle, and the well plat to each of the following persons: (1) The owners of record of d to be located; (2) The owners of record of the surface tract or tracts overlying the rell work, if the surface tract is to be used for roads or other land disturbance as itted pursuant to subsection (c), section seven of this article; (3) The coal owner, the well proposed to be drilled is located [sic] is known to be underlain by one or a tract or tracts overlying the oil and gas leasehold being developed by the proposed ment, construction, enlargement, alteration, repair, removal or abandonment of any article; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to mimals; and (6) The operator of any natural gas storage field within which the rethan three tenants in common or other co-owners of interests described in the applicant may serve the documents required upon the person described in the to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any older is not notice to a landowner, unless the lien holder is the landowner. W. Va. shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any after testing as provided in section 15 of this rule.
☑ Application Notice ☑ WSSP Notice ☑ E&S Pl ☑ SURFACE OWNER(s)	an Notice ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE
Name: David L. Weekley Revocable Trust	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address: 16191 Ellsworth Road	Address:
Berlin Center, OH 44401	- COLL OPER LEGR
Name:	☐ COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address:	Address:
SURFACE OWNER(s) (Road and/or Other Disturb	ance)
Name: David L. Weekley Revocable Trust	☑ WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,
Address: 16191 Ellsworth Road	SPRING OR OTHER WATER SUPPLY SOURCE *PLEASE NOTE THERE ARE 4 WATER SOURCES SHOWN, HOWEVER TRIEY ARE
Berlin Center, OH 44401	Name: NONE IDENTIFIED WITHIN 1500' Address: VALUE SOURCES SHOWN, HOWEVER THEY ARE SOURCES SHOWN.
Name:	Address:
Address:	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:Address:
Name:	Address:
Address:	*Please attach additional forms if necessary FEB 5 2018
	WV Person Protestic

API NO. 47-085 0 8 5 1 0 3 5 0
OPERATOR WELL NO. Swartzmiller Unit 2H
Well Pad Name: Weekley Trust Pad

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 RECEIVED 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

WV Department of

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any experience Protection 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. 47-085 0 8 5 1 0 3 5 0
OPERATOR WELL NO. Swartzmiller Unit 2H
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 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 Gos

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

FEB 5 2018

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) 4708510350

OPERATOR WELL NO. Swartzmiller Unit 2H 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(e)(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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Office of Oil and Gas

FEB 5 2018

WW Department of Environmental Protection

WW-6A (8-13)

API NO. 47-085 OPERATOR WELL NO. Swartzmiller Unit 2H Well Pad Name: Weekley Trust Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation Telephone: (303) 357-7310

Email: kquackenbush@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.

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 FROMOVY

Notary Pr

My Commission Expires

RECEIVED
Office of Oil and Gas

5 2018

WW Department of Environmental Protection WW-6A4 (1/12) Operator Well No. Swartzmiller Unit 2H

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.

Notice Time Date of Notic	Requirement: Notice shall be provided at le e: 01/08/2018 Date Perm	east TEN (10) days prior to filing a it Application Filed: 02/02/2018	permit application.
Delivery met	hod pursuant to West Virginia Code § 22-	-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		ESTED	
Pursuant to V receipt request drilling a hor of this subsection mand if availab Notice is he Name: Davi Address: 1618 Bert	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given protion as of the date the notice was provided to ay be waived in writing by the surface owners, facsimile number and electronic mail add reby provided to the SURFACE OWN of Ellsworth Rd. In Center, OH 44401	prior to filing a permit application, renotice of its intent to enter upon the ursuant to subsection (a), section to the surface owner: Provided, hower. The notice, if required, shall includes of the operator and the operator with the operator and the operator	the surface owner's land for the purpose of the of this article satisfies the requirements of this article satisfies the requirements of this ude the name, address, telephone number, or's authorized representative.
State:	West Virginia	- UTM NAD 83 Easting:	506577.50m (Approximate Pad Center)
County:	Ritchie	Northing:	4358031.88m (Approximate Pad Center)
District:	Clay	Public Road Access:	CR-2/5
Quadrangle: Watershed:	Pennsboro 7.5'	Generally used farm name:	David Weekley Revocable Trust
This Notice Pursuant to Y facsimile nur related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this not the prizontal drilling may be obtained from the State of Street, SE, Charleston, WV 25304 (30)	erator and the operator's authorize secretary, at the WV Department of	ed representative. Additional information f Environmental Protection headquarters,
Notice is he	reby given by: F: Antero Resources Corporation 1615 Wynkoop St.	Authorized Representative: Address:	
	Denver, CO 80202	- Italicas.	Denver, CO 80202
Telephone:	303-357-7233	Telephone:	303-357-7233
Email:	kquackenbush@anteroresources.com	Email:	kquackenbush@antercresources.com
Facsimile:	303-357-7315	Facsimile:	303-357-7315
. acommie.	555-401-1,019		000-001-1010

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 explication appropriately secure your personal information. If you have any questions about our use or your personal information of DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12) 47 0 8 5 1 0 3 5 C

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

	e Requirement: notice shall be provided: Output Date Permonents Date Permonents	ded no later than the fil nit Application Filed:		t application.
Delivery m	ethod pursuant to West Virginia Co	de § 22-6A-16(c)		
■ CERT	TIFIED MAIL	☐ HAND		
	JRN RECEIPT REQUESTED	DELIVERY		
Pursuant to return receip the planned required to be drilling of a damages to (d) The notion of notice. Notice is he (at the addres Name: Da Address: 16/16 Notice is he Pursuant to	W. Va. Code § 22-6A-16(c), no late of requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section a horizontal well; and (3) A proposed the surface affected by oil and gas opeces required by this section shall be get expected by the section shall be get expected in the records of the sheriff a wid L. Weekley Revocable Trust 191 Ellsworth Road artin Center, OH 44401	r than the date for filing surface owner whose this subsection shall inten of this article to a standard surface use and comperations to the extent the iven to the surface own the time of notice): Nan Additional surface is hereby given the surface is hereby given the surface of the surface own the surface of	land will be used for clude: (1) A copy surface owner who consation agreement edamages are compared to the address lime:	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the nt containing an offer of compensation for appensable under article six-b of this chapter, isted in the records of the sheriff at the time well operator has developed a planned age of land as follows:
State:	West Virginia		Facting	506561m
County:	Ritchie	UTM NA	D 83 Northing:	4358023m
District:	Clay	Public Ro	ad Access:	CR 2/5
Quadrangle:	Pennsboro 7.5'	Generally	used farm name:	David L. Weekley Revocable Trust
Watershed:	North Fork Hughes River			
Pursuant to to be provide horizontal wasurface affe information	ded by W. Va. Code § 22-6A-10(b) well; and (3) A proposed surface use a cted by oil and gas operations to the related to horizontal drilling may be s, located at 601 57th Street, SE,	to a surface owner while to a surface owner which the damages are obtained from the Se	mose land will be ement containing and e compensable und cretary, 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 V Department of Environmental Protection) or by visiting www.dep.wv.gov/oil-and-department
Wall Operat	tor: Auto Bassies Company	Addres	S' 1615 Mhahaan Sha	
Well Operat Telephone:	OF: Antero Resources Corporation (303) 357-7310	Addres	-	
Email:	kquackenbush@anterorescurces.com	Facsim	Denver, CO 80202 ile: 303-357-7315	
	s Privacy Notice: of Oil and Gas processes your persona	d 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 of the complete of the comp

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WV Department of Environmental Protection

FEB 5 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Jim Justice Governor

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

January 30, 2018

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

Swartzmiller Unit 2H Well site

Dear Mr. Martin,

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.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Kara Quickenbush

Antero Resources Corporation

CH, OM, D-3

File

RECEIVED Office of Oil and Gas

FEB 5 2018

WV Department of Environmental Protection

List of Anticipated Additives Used for Fracturing or **Stimulating Well**

Chemical Abstract Service Number	
(CAS #)	
······································	
Proprietary	
Proprietary	
Proprietary	
Mixture	
68412-54-4	
26635-93-8	
107-21-1	
111-76-2	
9000-30-0	
7647-01-0	
64742-47-8	
67-63-0	
10222-01-2	
Proprietary	
64742-47-8	
57-55-6	
107-19-7	
57-55-6	
14808-60-7	
7631-86-9	
7647-14-5	
1310-73-2	
57-50-1	
68439-51-0	
14808-60-7	
72480-70-7	
64742-96-7	
67784-80-9	
52255-49-9	
15827-60-8	
34690-00-1	
71050-62-9	RECEIVED iffice of Oil and Gas
23605-75-5	
9003-06-9	FEB 5 2018
22005 74 5	
	vV Department of conmental Protection
	=10011011
· · · · · · · · · · · · · · · · · · ·	
38172-91-7	
<u> </u>	7732-18-5 37971-36-1 7727-54-0 Proprietary Proprietary 64742-48-9 Proprietary Proprietary Mixture 68412-54-4 26635-93-8 107-21-1 111-76-2 9000-30-0 7647-01-0 64742-47-8 67-63-0 10222-01-2 Proprietary 64742-47-8 57-55-6 107-19-7 57-55-6 14808-60-7 7631-86-9 7647-14-5 1310-73-2 57-50-1 68439-51-0 14808-60-7 72480-70-7 64742-96-7 67784-80-9 52255-49-9 15827-60-8 34690-00-1 71050-62-9 23605-75-5 9003-06-9 23605-76-5 111-46-6 100-97-0 68603-67-8 61791-14-8

04/27/2018

WEEKLEY TRUST WELL PAD Qο

LOCATION COORDINATES
ACCESS ROAD ENTRANCE
LATITUDE: 38.366897 LONGITUDE:
N 4357496.20 E 507302.94 (UTM ZONE 17 METERS)

CENTER OF TANK LATITUDE: 39.369138 LONGITUDE: N 3457744.83 E 507175.49 (UTM ZONE 17 METERS)

CENTROID OF PAD LATITUDE: 59.371729 LONGITUDE: N 4358031.88 E 508577.50 (UTM ZONE 17 METERS)

WVDEP OOG APPROVED 3/15/2017

EROSION & SEDIMENT SITE DESIGN & CONS

CABIN RUN-NORTH FORK HUGH CLAY DISTRICT, RITCHIE COL

USGS 7.5 MIDDLEBOURNE & PE

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

(

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

#540B5C0125C

MISS UTILITY STATEMENT

ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN, TICKET \$1421955445. IN ADMITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT
ANYERO RESOURCES CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MA-109) FROM THE
WEST UREBUIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF
CONSTRUCTION ACTIVITIES.

(P)

1

9

WELL PAD

PROPOSED

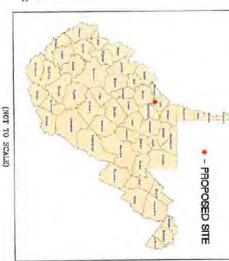
ENVIRONMENTAL NOTES

STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN JUNE, 2012, & REEVALUATED MAY, 2015 & STREAM AND WETLAND THAT ARE SEPTEMBER, 2016 BY ALISTAR ECOLOGY, LLC TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VERGINA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WUDER), THE OCTOBER 16, 2015 STREAM & WETLAND DELINEATION MAY PASS PREPARED BY ALLSTAR ECOLOGY, LLC AND SUMMARIZES THE RESULTS OF THE PIELD 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 WYDER.

GEOTECHNICAL NOTE

A SUBSURPACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROC AND BETWEEN AUGUST 13, 2014 & SEPTEMBER 08, 2014. THE REPORT PERFARED BY PENNSYLVANIA INC. BETWEEN AUGUST 13, 2014 & SEPTEMBER 22, 2014, REVISED NOVEMBER 10, 2015, REFLECTS THE RESULTS SOIL & ROCK, INC. DATED SEPTEMBER 22, 2014, REVISED NOVEMBER 10, 2015, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATION AND RECOMMENDATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED. ROCK.

WEST VIRGINIA COUNTY MAP



(1)

AD TO

6

2000

PROJECT CONTACTS

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

OFFICE: (S04) - ENVIRONMENTAL ENGINEER 842-4068 CELL: (304) 476-9770

JON MCEYERS - OPERATIONS SUPERINTENDENT OFFICE: (303) 357-6799 CELL: (303) 808-2423

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

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

SURVEYING COORDINATOR

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

ENGINEER/SURVEYOR:
NAVITUS ENGINEERING, INC.
CYRUS S. KUMP, PE - PROJECT
OFFICE: (888) 662-4185 CELL: MANAGER/ENGINEER (540) 688-6747

ENVIRONMENTAL:
ALLSTAR ECOLOGY, LLC
RYAN L. WARD - ENVIRO R ECOLOGY, LLC WARD — ENVIRONMENTAL SCIENTIST (866) 213-2666 CELL: (304) 692-7477

GEOTECHNICAL:
PENNSYLVANA SOIL & ROCK, INC.
PENNSYLVANA SOIL & ROCK, INC.
CHRISTOPHER W. SAMOS-PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 589-0662

CELL: (304) 719-6449

- RESTRICTIONS NOTES:

 1. THERE ARE NO PERENNIAL
 PAD AND LOD. THERE IS A STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL 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
- ca THERE ARE NO WELL PAD AND GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET LOD. OF
- THERE ARE NO APPARENT WELL(S) BEING DRILLED. EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE
- ch THERE ARE NO AGRICULTURAL BUILDINGS LARGER CENTER OF THE WELL PAD. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THAN 2,500 SQUARE FEET THE CENTER WITHIN 625 FEET OF THE OF THE WELL PAD

PAPER HALF REPRODUCTION PLOTTED ON NOTE (ANS) B) PAPER 0

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

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES,
AND REFERENCE DIGRAMS ATACHED
HERETO HAVE BEEN PREPARED IN
ACCORDANCE WITH THE WEST VIRGINA
CODE OF STATE RULES, DIVISION OFFICE
ENVIRONMENTAL PROTECTION, OFFICE
OF OIL AND GAS CRS 35-8.

MTER NTAINMENT PAD

TY, WEST VIRGINIA S RIVER WATERSHED

ISBORO QUAD MAPS





WEST VIRGINIA STATE PLANE COORDINATE SYSTEM NORTH ZONE, NADB3 ELEVATION BASED ON NAVDBB ESTABLISHED BY SURVEY GRADE GPS & OPUS POST-PROCESSING



MATERIAL QUANTITIES

STORM DRAINAGE COMPUTATIONS

EXISTING CONDITIONS, STRUCTURES & FEATURES

OVERALL PLAN SHEET INDEX & VOLUMES

ACCESS ROAD PLAN

WELL PAD PLAN

WELL PAD PLAN

WITER CONTAINMENT PAD GRADING PLAN

WITER CONTAINMENT PAD GRADING PLAN

ER CONTAINMENT PAD GRADING PLAN
LL PAD GRADING PLAN
ESS ROAD & CULVERT PROFILES
ESS ROAD SECTIONS
ESS ROAD & STOCKPILE SECTIONS
LL PAD & WATER CONTAINMENT PAD SECTIONS
L PAD SECTIONS

ECHANATION PLAN AMATION PLAN ECHNICAL DETAILS

Proposed WW Nort	Total Wo	
orth WW North	oded Agres Dist	Car Director Dieg
Zone 17	urbed	
M (METERS) NAD 83 Lat & Long Zone 17	30.22	58.07

WVDOH COUNTY ROAD MAP

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')
d L. Weekle	Impacts to David L. Weekley, Trustee of the David L. Weekley Revocable Trust UTA TM 3-10
	Total Site
AREA (AC)	WEEKLEY TRUST LIMITS OF DISTURBANCE AREA (AC)

11/12/2015

8404Quelli ABBB SCALE: AS SHOWN

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!!

COVER SHEET

WEEKLEY TRUST

WELL PAD & WATER CONTAINMENT PAD

CLAY DISTRICT RITCHIE COUNTY, WEST VIRGINIA



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



SHEET INDEX

COVER SHEET CONSTRUCTION AND E&S CONTROL NOTES

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

