

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 SWARTZMILLER UNIT 2H 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: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 4/27/2018

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit</u> 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
- 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.

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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 WELL WORK PERMIT APPLICATION

1) Well Opera	tor: Antero R	esources (Corporat	494507062	085 - Ritchie	Clay	Pennsboro 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's	Well Number:	Swartzmille	er Unit 21	H Well F	ad Name: Weel	dey Trust	Pad
3) Farm Name	/Surface Owner	r: David Weekk	ey L. Revocab	He Trust Public R	oad Access: CR	-2/5	
4) Elevation, c	current ground:	~1265'	Ele	evation, propose	d post-constructi	on: 1235	
5) Well Type	(a) Gas X Other		Oil	Un	derground Stora	ge	
	.,	hallow Iorizontal	x x	Deep			Michael 20 2-6-18
6) Existing Pa	d: Yes or No N	lo	1				2-10-18
· · · · · · · · · · · · · · · · · · ·				행동 이상에 가지 않는 것 같아. 가지	and Expected P: ciated Pressure- 2		d-4 0
8) Proposed To	otal Vertical De	pth: 6800	TVD				
) Formation a	at Total Vertical	Depth: N	larcellus				7
10) Proposed	Total Measured	Depth: 1	5200' MI)			
11) Proposed I	Horizontal Leg	Length: 7	375'				
12) Approxim	ate Fresh Water	Strata Dep	ths:	Offset well records	. Depths have been a	djusted accor	rding to surface elevations.
13) Method to	Determine Free	sh Water De	pths: 3	38', 375'			
14) Approxim	ate Saltwater D	epths: 172	8', 1753'				
15) Approxima	ate Coal Seam I	Depths: 88	7'				
16) Approxim	ate Depth to Po	ssible Void	(coal min	ne, karst, other):	None Anticipa	ted	
	osed well locati			Yes	No	x	
(a) If Yes, pr	ovide Mine Info	o: Name:					RECEIVED
		Depth:					Office of Oil and Gas
		Seam:					FEB 0 9 2018
		Owner:					
							WV Department of

Environmental Protection

API NO. 47- 085 -

OPERATOR WELL NO. Swartzmiller Unit 2H Well Pad Name: Weekley Trust Pad

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> or Used	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (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

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (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	Least-HiPOZ & Tell - 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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FES 0 9 2018 Page 2 of 3

WW-6B (10/14)

4708510350

API NO. 47- 085

OPERATOR WELL NO. Swartzmiller Unit 2H Well Pad Name: Weekley Trust Pad

MDC3 88

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.

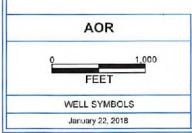
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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



PETRA 1/22/2018 5:15:35 PM

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Swartzmiller Unit 2H

FEB 5 2018

WW-9	
(2/15) API Number 47 - 085 Operator's Well No. Swertzmiller Unit 2H	
	DC0 6-18
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	.6-
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 complete the proposed well work? Yes V No	
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No pit will be used at this site (Dilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and heuted off site.)	
Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number 'UIC Permit # will be provided on Form WR-34)	
 Reuse (at API Number_Future permitted well locations when applicable. API# will be provided on Form WR-34 Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) 	
Off Site Disposal (Supply form w w-9 for disposal focation) (Meadowini Landnin Pennit #SWF-1025/ Other (Explain	
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc. N/A	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Stored in tanks, removed offsite and taken to landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98)	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.	_
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issue on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.	hc le uis or nt
Company Official Signature	
NOTACKEAU	
Company Official Title Environmental Specialist III Subscribed and sworn before me this 200 day of Febman , 20 18	7
and 10 10 10	. /
Subscribed and sworn before me this 200 day of Febman 20 18	2018
	IVED
My commission expires JULY 21, 2018 FEB 0 9	9 2018

Form WW-9

Antero Resources Corporation

Operator's Well No. Swartzmiller Unit 2H

See attached Table IV-4A for additional seed type Weekley Trust Pad Design Page 25)

*or type of grass seed requested by surface owner

Lime 2-4	Tons/acre or to corre	ect to pH 6.5	
Fertilizer type Hay or s	straw or Wood Fiber (will	be used where needed)	
Fertilizer amount 500		lbs/acre	
Mulch_ 2-3		_Tons/acre	
Access Road "A" -749 (2.7		6' (10.67 acres) + Well Pad (8.15 acres) + Water Containment I ial Stockpiles (7.63 acres) = 32.87 Acres	Pad (3.70 acres) + Excess/Topse
	Mater	ial Stockpiles (7.63 acres) = 32.87 Acres	
Тет	Mater perary	ial Stockpiles (7.63 acres) = 32.87 Acres Perma	nent

See attached Table IV-3 for additional seed type (Weekley Trust Pad Design Page 25)

*or type of grass seed requested by surface owner

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Approved by: Michael Darff	
: Oil & Gas Inspector Date: 2-6-18	
e: O! & Gas Inspector Date: 2-6-18 d Reviewed? (V) Yes ()No	RECEN Office of OII

d Gas

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Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

- 2. Mil-Carb Calcium Carbonate
- 3. Cottonseed Hulls

Cellulose-Cottonseed Pellets – LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide – Lime

11. LD**-**9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica Hydro-Biotite Mica – LCM RECEIVED Office of Oil and Gas

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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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FEB 5 2018



911 Address 142 Jones Rd Pennsboro, WV 26415

Well Site Safety Plan

Antero Resources

Ray Unit 1H-3H, Swartzmiller Unit 1H-3H, Well Name: Cinqmars 1H-4H, Goliad Unit 1H-2H Michael Doff 2-6-18

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:

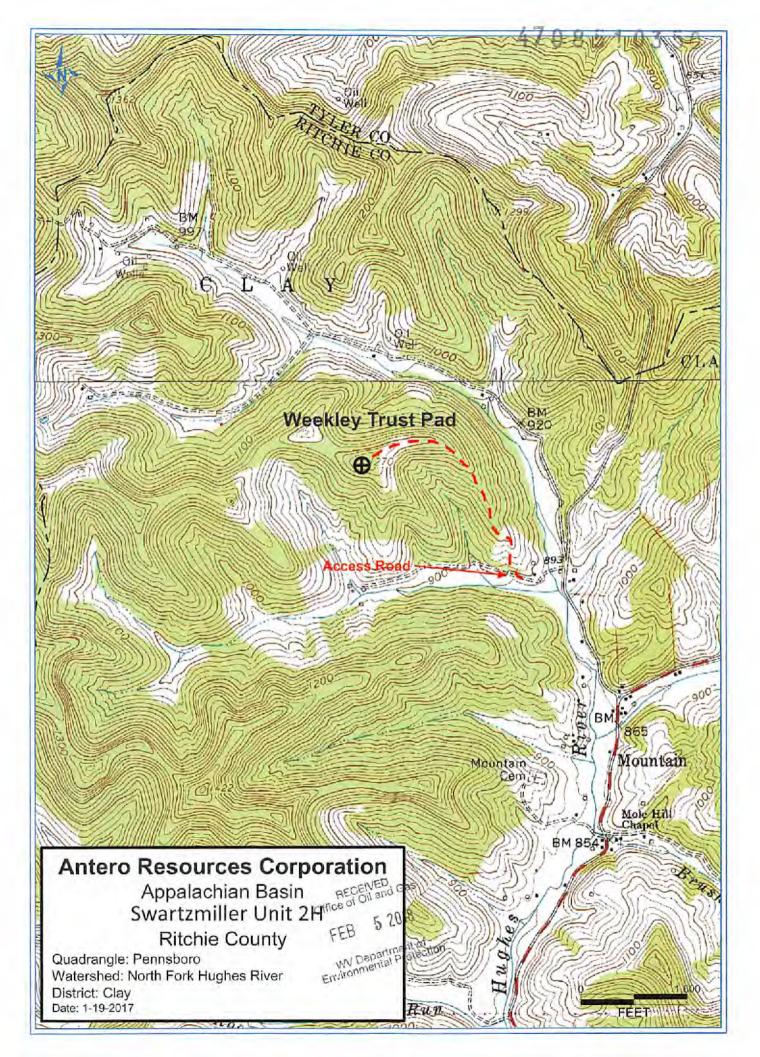
From the intersection of I79 and HWY 50: Travel west on US-50 for 28.7 miles. Turn right onto WV-18 N and head towards West Union. Turn Left onto Davis St/Old U.S. 50 W and continue for 0.4 miles. Turn right onto WV-18N/Sistersville Pike for 12.2 miles. Turn Left onto WV-74 S for 3.7 miles. Turn right 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.

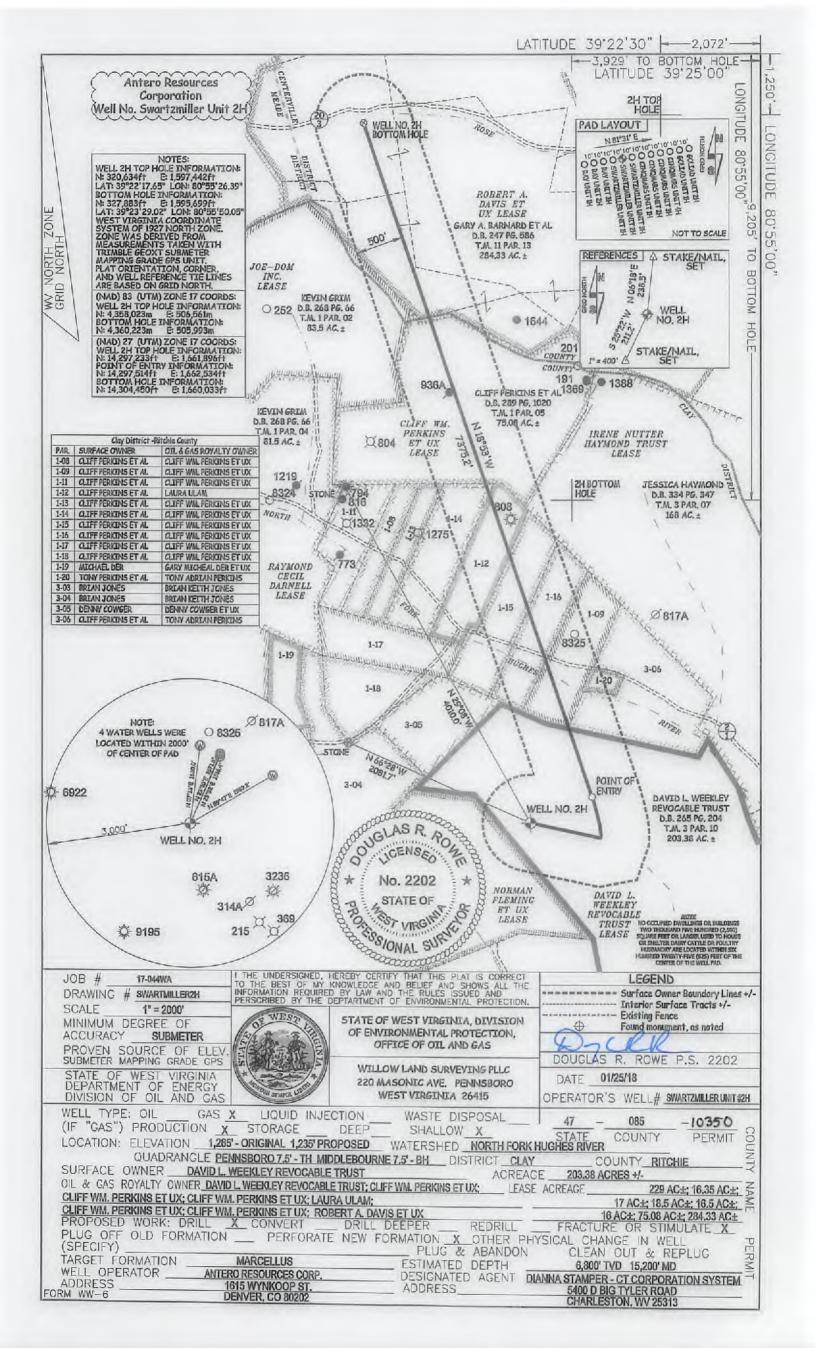
Alternate Route:

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 1-800-878-1 ogo Gi and Gas

FE. 09 2018





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
<u>Cliff Wm. Perkins, et ux Lease (3-1-9)</u> Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0262
<u>Cliff Wm. Perkins, et ux Lease (3-1-16)</u> Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0292
<u>Cliff Wm. Perkins, et ux Lease (3-1-15)</u> 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
<u>Cliff Wm. Perkins, et ux Lease (3-1-14)</u> Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0280
<u>Cliff Wm. Perkins, et ux Lease (3-1-5)</u> Cliff William & Virginia Ruth Perkins	Antero Resources Corporation	1/8+	0266/0268

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WV Department of Environmental Protection

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

WW-6A1 (5/13) Operator's Well No. 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)

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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				
	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

*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 activity is initiated activity is initiated activity is initiated activity and Gas

Well Operator:	Antero Resources Corporation	FEB 5 2018
By:	Kevin Kilstrom	
Its:	Senior VP of Production	Environmental Protection

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	and the second second	Banna Bandy

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Natalio'E, Tennant. Scoretary of State 1900 Kanawha Bivd E Bldg 1, Sufe 157-K Charleston, WV 25305

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

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY .

E-mall: business@wvses.com Office Hours: Monday - Friday 8:30 a.m. - 5:00 p.m. BT

IN THE OFFICE OF Corporations Division

CRETARY OF STATE Tel: (304)558-8000 Pax: (304)558-8381

Penney Barker, Manager

Website: www.wysos.com

**** 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 authorized to transact business in WV:
- 2. Date Certificate of Authority was issued in West Virginia:
- 3. Corporate name has been changed to: (Attach one Certified Copy of Name Change as filed in home State of incorporation.)
- 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)

Antero Resources Appalachian Corporation

6/25/2008

Antero Resources Corporation

Antero Resources Corporation

6. Name and phone number of contact person. (This is optional, however, if there is a problem with the filing, listing a contact person and phone number may avoid having to return or reject the document.)

Alvyn A. Schopp	A	(303) 357-7310
Contact Name		Phone Number

7. Signature information (See below "Junortant Legal Notice Regarding Signature):

Print Name of Signer: Anyn A. Schopp Signature: Astrophysics			Title/Capacity; Authorized Person		
Signature:	As Aabbb	Dates	June 10, 2013		
	/ //			•	

*Important Leval Notice Repariting Standurg: For West Virginia Code 5311)-1-129. Penalty for signing false document. Any person who signs a document he or she knows is false in any material respect and knows that the document is to be delivered to the secretary of state for filing is guilty of a misdomeaner and, upon conviction thereof, shall be fined not more than one thousand dollars or confined in the county or regional jall not more than one year, or both. Office of Oil and Gas

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Form CF-4

Issued by the Office of the Secretary of State -

WV Department of Environmental Protection Revised 4/15

WVol2 - 644 6/3011 Webers Kkmyr Oalla

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FORM WW-6A1 EXHIBIT 2, PAGE 1

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Certificate

J. Ken Hechter, Secretary of State of the State of West Tirginia. hereby certify that

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2/1/2018

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

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Туре	Address	
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 Gas
2/20/2017	FEB 5 2018
4/9/2015	WV Department of Environmental Protecti
4/21/2014	Environmental Protecti
2/20/2013	
5/3/2012	

http://apps.sos.wv.gov/business/corporations/organization.aspx?org=140106#content



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

February 2, 2018

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

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WW Department of Privikonmantal Protection

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

Date of Notice Certification: 02/01/2018

API No. 47- 085	
Operator's Well No.	Swartzmiller Unit 2H
Well Pad Name: W	eekley Trust Pad

Notice has been given:

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

State:	West Virginia		Easting:	506561m
County:	Ritchie	UTM NAD 83	Northing:	4358023m
District:	Clay	Public Road Ac	cess:	CR 2/5
Quadrangle:	Pennsboro 7.5'	Generally used t	farm name:	David L. Weekley Revocable Trust
Watershed:	North Fork Hughes River			

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

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

5 2018 FEB

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	Address:	1615 Wynkoop Street		
By:	Kevin Kilstrom		Denver, CO 80202		
Its:	Senior VP of Production	Facsimile:	303-357-7315		
Telephone:	303-357-7310	Email:	kquackenbush@anteroresources.com		
NO	TARY PUBLIC OF COLORADO	mmm	orn before me this 15t day of <u>FEDMAN</u> 2018 <u>UKWWANSP</u> Notary Public xpires <u>JULY 21,2018</u>		

Oil and Gas Privacy Notice:

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

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FEB 5 2018

WW-6A (9-13) 4708510350

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 <u>NOTICE OF APPLICATION</u>

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

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\checkmark	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	\checkmark	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:

Address:	16191 Ellsworth Road
	Berlin Center, OH 44401
Name:	
Address:	
SURF!	CE OWNER(s) (Road and/or Other Disturbance
Name: D	wid L. Weekley Revocable Trust
	vid L. Weekley Revocable Trust
	16191 Ellsworth Road
Address:	16191 Ellsworth Road
Address: Name: Address:	16191 Ellsworth Road
Address: Name: Address:	16191 Elisworth Road Berlin Center, OH 44401

COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUN	TY
Address:	
COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUN	TY
Address:	
WATER PURVEYOR(s)/OWNER(s) OF WATER V SPRING OR OTHER WATER SUPPLY SOURCE Name: NONE IDENTIFIED WITHIN 1500'	
Address:	SUBJECT PAD LOCATION
OPERATOR OF ANY NATURAL GAS S Name: Address:	STORAGE FIELD
*Please attach additional forms if necessary	ÉÉB 5 2018

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WW-6A (8-13) APINO. 47- 867 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/oiland-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 frontally granting 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 welland, 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) **47085103**50

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

WV Department of Environmental Protection

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

WW-6A (8-13)

4708510350 API NO. 47- 085

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(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-

<u>Permits/Pages/default.aspx</u> 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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API NO. 47- 085 -OPERATOR WELL NO. Swartzmiller Unit 2H Well Pad Name: Weekley Trust Pad

Notice is hereby given by:

WW-6A

(8-13)

Telephone: (303) 357-7310	10	Relation	
Email: kquackenbush@anterore:			

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 <u>depprivacyofficer@wv.gov</u>.

-	KARA QUACKENBUSH	
	NOTARY PUBLIC STATE OF COLORADO	Subscribe
	NOTARY ID 20144028297 MY COMMISSION EXPIRES JULY 21, 2018	Jeim
	CENTRALSSION EXPIRES JULY 21, 2018	
		My Comr

Subscribed and sworn bef	ore me this 2nd day of	February 2018
ARMINER	NONSK	Notary Public
My Commission Expires_	JULY 21,2018	

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FEB 5 2018

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 01/08/2018 Date Permit Application Filed: 02/02/2018

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

HAND	=	CERTIFIED MAIL
DELIVERY		RETURN RECEIPT REQUESTED

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

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

Name:	David L. Weekley, Revocable Trust UTA	Name:
Address:	16191 Ellsworth Rd.	Address:
	Berlin Center, OH 44401	

Notice is hereby given:

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

State:	West Virginia	LITMANAD 02	Easting:	506577.50m (Approximate Pad Center)	
County:	Ritchie	UTM NAD 83	Northing:	4358031.88m (Approximate Pad Center)	
District:	Clay	Public Road Acc	ess:	CR-2/5	-
Quadrangle:	Pennsboro 7.5'	Generally used fa	arm name:	David Weekley Revocable Trust	
Watershed:	North Fork Hughes River				

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator:	Antero Resources Corporation	Authorized Representative:	Kara Quackenbush
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.
	Denver, CO 80202		Denver, CO 80202
Telephone:	303-357-7233	Telephone:	303-357-7233
Email:	kquackenbush@anteroresources.com	Email:	kquackenbush@anteroresources.com
Facsimile:	303-357-7315	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. Ouperfiber will appropriately secure your personal information. If you have any questions about our use or your personal information fighted by the disclosed to be appropriately secure your personal information. If you have any questions about our use or your personal information fighted by the disclosed to be appropriately secure your personal information. If you have any questions about our use or your personal information fighted by the disclosed to be appropriately secure your personal information. If you have any questions about our use or your personal information fighted by the disclosed to be appropriately secure your personal information. If you have any questions about our use or your personal information fighted by the disclosed to be appropriately secure your personal information. If you have any questions about our use or your personal information fighted by the disclosed by the discl

5 2018 FFB

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF PLANNED OPERATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 02/02/2018 Date Permit Application Filed: 02/02/2018

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:	David L. Weekley Revocable Trust	Name:	/
Address:	16191 Ellsworth Road	Address:	/
	Berlin Center, OH 44401		-

Notice is hereby given:

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

State:	West Virginia	LUTMINIAD 02	Easting:	506561m	
County:	Ritchie	UTM NAD 83	Northing:	4358023m	
District:	Clay	Public Road Acc	ess:	CR 2/5	
Quadrangle:	Pennsboro 7.5	Generally used fa	arm name:	David L. Weekley Revocable Trust	
Watershed:	North Fork Hughes River				

This Notice Shall Include:

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

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

Oil and Gas Privacy Notice:

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

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 t. Clayton

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

RECEIVED Office of Oil and Gas

FEB 5 2018

W Department of Environmental Protection

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

List of Anticipated Additives Used for Fracturing or Stimulating Well

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

4708 (37 -0 in (3) 0

APPROVED WEEKLEY TRUST WELL EROSION & SEDIMENT SITE DESIGN & CONS PAD 8

5

CABIN RUN-NORTH FORK HUGH CLAY DISTRICT, RITCHIE COL

CENTER OF TANK LATITUDE: 39.369138 LONGITUDE: N 3457744.83 E 507175.49

(UTM ZONE 17 METERS)

WVDEP OOG

3/15/2017

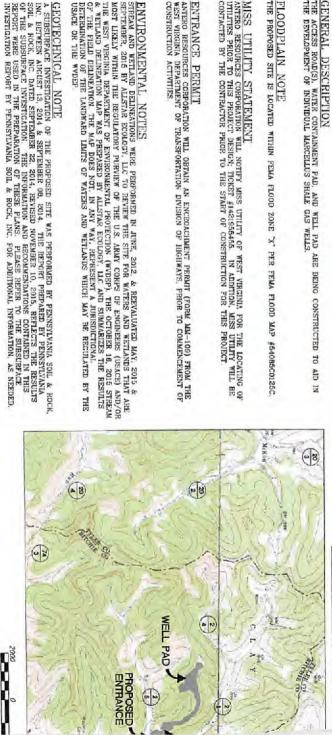
LOCATION COORDINATES ACCESS ROAD ENTRANCE LATITUDE: 39.366897 LONGITUDE: N 4357496 20 E 507302.94

(UTM ZONE 17 METERS)

CENTROID OF PAD LATITUDE: 39.371729 LONGITUDE: N 4358031.86 E 508577.50

(UTM ZONE 17 METERS)

USGS 7.5 MIDDLEBOURNE & PE



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

MISS UTILITY STATEMENT ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN, TICKET \$142,1955455. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

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

#54085C0125C

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

PROJECT CONTACTS

GEOTECHNICAL NOTE

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

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

JON MEEVERS - OPERATIONS SUPERINTENDENT OFFICE: (303) 357-6799 CELL: (303) 806-2423

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

CHARLES E. COMPTON, III --CELL: (304) 719-6449 ROBERT B. WIRKS - FIELD OFFICE: (304) 842-4100 CELL: (304) 627-7405 SURVEYING COORDINATOR

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

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ENGINEER/SURVEYOR: NAVITUS ENGINEERING, INC. CYRUS S. KUMP, PE - PROJECT OFFICE: (888) 662-4165 CELL: (540) 686-6747

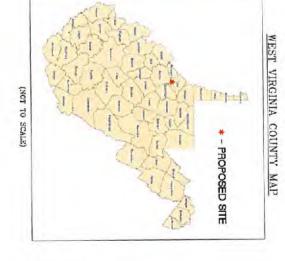
OFFICE: ENVIRONMENTAL: ALISTAR ECOLOGY, LLC RYAN L. WARD - ENVIRO R ECOLOGY, LLC WARD - ENVIRONMENTAL SCIENTIST (866) 213-2666 CELL: (304) 692-7477

GEOTECHNICAL: PENNSYLVANA SOL & ROCK, INC. CHRISTOPHER & SANDS-PROLECT ENGINEER OFFICE: (412) 372-4000 CELL: (412) 569-0662

- 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
- 1 THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD
- ŝ GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET LOD. OF THE
- WELL PAD AND
- WELL(S) BEING DRILLED. EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE
- ch THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD
- THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER CENTER OF THE WELL PAD.

PAPER PLANS WERE CREATED TO REPRODUCTION ARE PLOTTED ON NOTE (ANSI B) (ANSI PAPER .

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



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A.

AD A

DESIGN CERTIFICATION THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATACHED HERENCE DIAGRAMS ATACHED IN ACCORDANCE WITH THE WEST VIRCINA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CHS 35-6

000 RUCTION PL ATER INTROL 0 D ANS AN, FAINMENT PAD

ty, west virginia s river watershed

VSBORO QUAD MAPS



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

SHEET INDEX

- COVER SHEET CONSTRUCTION AND E&S CONTROL NOTES
- RAINAGE COM
- -000400-TERIAL QUA STING DEAINA STING COND RALL PLAN ESS ROAD ESS ROAD L PAD PLA AN SHEET
 - COMPUTATIONS NNS, STRUCTURES & FEATURES EET INDEX & VOLUMES MATER CONTAINMENT PAD PLAN

- PAD
- ONTAINMENT PAD GRADING PLAN O GRADING PLAN TOAD & CULVERT PROFILES TOAD & STOCKTHE SECTIONS O & WATER CONTAINMENT PAD SE SECTIONS

SECTIONS

- WELL
- N DETAILS WATER CONTAINMENT PAD

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30.22	Total Wooded Acres Disturbed
32.87	Total Affected Area
7.63	Excess/Topsoil Material Stockpiles
3.70	Water Containment Pad
8.15	WellPad
10 67	Access Road "B" (2,486")
2.72	Access Road "A" (749')
1 L. Weekley	Impacts to David L. Weekley, Trustee of the David L. Weekley Revocable Trust UTA TM 3-10
All Comments	Total Site
NREA (AC)	WEEKLEY TRUST LIMITS OF DISTURBANCE AREA (AC

Linit SL	Ray	Unit 1H	Ray	Proposed Well Name	Γ						
E 1607412 28	N 320629.32	E 1597402.38	N 320627.64	WV North	Total Woodec	Total Af	Excess/Topsoil Material Stockpiles	Water Co	W	Access Ro	Access R
E 1507412 28 E 1565071 31	N 320563.64	E 1565961.32	N 320562.16	WW North	Total Wooded Acres Disturbed	Total Affected Area	Material Stoc	Water Containment Pad	Well Pad	Access Road "B" (2,486"	Access Road "A" (749')
E RORRAD DR	N 4358021.44	E 506549.28	N 4358020.94	UTM (METERS) Zone 17	bed		kpiles	-		2	
IONG AD SELOR IEAR	LAT 39-22-17.8875	LONG -80-55-26.2802	LAT 39-22-17.8714	Zone 17 NAD 83 Lat & Long	30.22	32.87	7.63	3.70	8.15	10.67	272

Lig

-	Excess/Topsoil Material Stockpiles	Material Stoc	kpiles	7.63
	Total A	Total Affected Area		32.87
	Total Woode	Total Wooded Acres Disturbed	bed	30.22
roposed fell Name	WW North	WV North	UTM (METERS) Zone 17	NAD 83 Lat & Long
Ray	N 320627.84	N 320562.16	N 4358020.94	LAT 39-22-17.8714
Unit 1H	E 1597402.30	E 1565961.32	E 506549.28	LONG -80-55-26.2802
Ray	N 320629 32	N 320563.64	N 4358021.44	LAT 39-22-17.8675
Unit 2H	E 1597412.28	E 1565671.21	E 506552.28	LONG -80-55-26, 1546
Ray	N 320630.79	N 320565.11	N 4358021.94	LAT 39-22-17.9037
Unit 3H	E 1597422.17	E 1565981.10	E 506555.29	LONG -80-55-26.0290
vartzmiller	N 320632 26	N 320666,59	N 4358022.44	LAT 39-22-17.9198
Unit 1H	E 1597432.06	E 1565990 99	E 505558 29	LONG -80-55-25 9033
vartzmiller	N 320633.74	N 320050.05	N 4358022 94	LAT 39-22-17.9359
Unit 2H	E 1597441.95	E 1566000.85	E 506561.30	LONG -80-55-25.7777
vartzmiller	N 320635 21	N 320659.54	N 4358023.44	LAT 39-22-17.9520
		-	T PAPER AN	

WVDOH COUNTY ROAD MAP

Contraction of the second

Proposed	WV North	WV North	UTM (METERS)	NAD 83 Lat & Long
Well Name	NAD 27	E8 CVN	Zone 17	The second second
Ray	N 320627.64	N 320562.16	N 4358020.94	LAT 39-22-17.8714
Unit 1H	E 1597402.38	E 1565961.32	E 506549.28	LONG -80-55-26.2602
Ray	N 320629-32	N 320563.64	N 4358021.44	LAT 39-22-17.8675
Unit 2H	E 1597412.28	E 1565671.21	E 506552.28	LONG -80-55-26, 1546
Ray	N 320630.79	N 320565.11	N 4358021.94	LAT 39-22-17.9037
Unit 3H	E 1597422 17	E 1565981,10	E 50855529	LONG -80-55-26.0290
wartzmiller	N 320632 26	N 320666,59	N 4358022.44	LAT 39-22-17.9198
Unit 1H	E 1597432 06	E 1565990 99	E 506558 29	LONG -80-55-25 9033
wartzmiller	N 320633.74	N 320558.05	N 4358022.94	LAT 39-22-17.9359
Unit 2H	E 1597441.95	E 1565000.65	E 506561.30	LONG -80-55-25.7777
wartzmiller	N 320635 21	N 320659.54	N 4358023.44	LAT 39-22-17.9520
Unit 3H	E 1597451.84	E 1568010.77	E 506564.30	LONG -80-55-25.8520
Cinquars	N 320636.69	N 320671.01	N 4358023.94	LAT 39-22-17.9682
Unit 1H	E 1597461.73	E 1566020.66	E 506567.31	LONG -80-55-25.5264
Cinquans	N 320638.16	N 320672.49	N 4358024.44	LAT 39-22-17.9843
Unit 2H	E 1597471.62	E 1566030.65	E 506570.31	LONG -80-55-25.4008
Cinqmars	N 320639.64	N 320673.96	N 4358024.94	LAT 39-22-18.0004
Unit 3H	E 1597481.51	E 1568040.44	E 506573.32	LONG -80-55-25 2751
Gingmans	N 320641.11	N 320675,44	N 4358025.44	LAT 39-22-18 0165
Unit 4H	E 1597491.40	E 1565050.33	E 506576.33	LONG -80-55-25 1495
Goliad	N 320642 59	N 320676.91	N 4358025.94	LAT 39-22-18.0327
Unit 1H	E 1597501.29	E 1566060.23	E 506579.33	LONG -80-55-25.0239
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XIV: Chapter 24-C) that you call two ys before you dig i o of West Virginia. S THE LAW!!

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MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law

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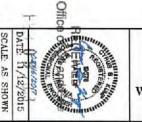
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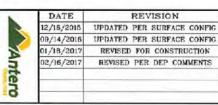
LONG -80-55-24.8982



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

