

west virginia department of environmental protection

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

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

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

### ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

### Re: Permit approval for RAY UNIT 2H 47-085-10347-00-00

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	Confine -

04/27/2018

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A David L. WEEKLEY REVOCA 47-085-10347-00-00 New Drill Date Issued: 4/27/2018

Promoting a healthy environment.

# PERMIT CONDITIONS 4708510347

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 4708510347

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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WW-6B	
(04/15)	

API NO. 47-085 -

OPERATOR WELL NO. Ray 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 Operator: Antero	Resources	Corporat	494507062	085 - Ritch	e Clay	Pennsboro 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Ray Unit 2	н	Well P	ad Name: Wee	kley Trust	Pad
3) Farm Namc/Surface Own	ICT: David Week	ley L. Revocab	<sup>le Trust</sup> Public R	oad Access: CI	R-2/5	<u></u>
) Elevation, current ground	: ~1265'	Ele	vation, propose	d post-construc	tion: 1235'	
5) Well Type (a) Gas <u>)</u> Other	x	Oil	Un	derground Stor	age	
(b)If Gas	Shallow	х	Deep			Michael 2. 2-6-18
	Horizontal	X				Mahart 5
6) Existing Pad: Yes or No	No	-		<u> </u>		2-6-18
Proposed Target Formatic Marcellus Shale: 6800' TVI						v
) Proposed Total Vertical E	Depth: 6800	TVD				
) Formation at Total Vertic	al Depth: N	larcellus				
0) Proposed Total Measure	d Depth: 1	6000' ME	)			
1) Proposed Horizontal Leg	g Length: 7	434'				
s) i toposed Homeondal Log		ths.	Offset well records.	Depths have been	adjusted accord	ding to surface elevations.
<ol> <li>Approximate Fresh Wate</li> </ol>	er Strata Dep	LILD.				
			38', 375'			
2) Approximate Fresh Wate	esh Water D	epths: 3	38', 375'			
<ol> <li>Approximate Fresh Wate</li> <li>Method to Determine Free</li> </ol>	esh Water Do Depths: <u>172</u>	epths: 33	38', 375'			
<ol> <li>2) Approximate Fresh Wate</li> <li>3) Method to Determine Fre</li> <li>4) Approximate Saltwater I</li> </ol>	esh Water Do Depths: <u>172</u> Depths: <u>88</u>	epths: <u>3</u> 28', 1753' 7'		None Anticipa	ated	
<ol> <li>2) Approximate Fresh Wate</li> <li>3) Method to Determine Fre</li> <li>4) Approximate Saltwater I</li> <li>5) Approximate Coal Seam</li> </ol>	esh Water Do Depths: <u>172</u> Depths: <u>88</u> ossible Void tion contain	epths: 33 28', 1753' 7' (coal min coal seam	e, karst, other):		ated	
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<ol> <li>2) Approximate Fresh Wate</li> <li>3) Method to Determine Fre</li> <li>4) Approximate Saltwater I</li> <li>5) Approximate Coal Seam</li> <li>6) Approximate Depth to Period</li> <li>7) Does Proposed well local</li> <li>irectly overlying or adjacent</li> </ol>	esh Water Do Depths: <u>172</u> Depths: <u>88</u> ossible Void tion contain t to an active	epths: 33 28', 1753' 7' (coal min coal seam	e, karst, other): s		da	BECEIVED
<ol> <li>2) Approximate Fresh Wate</li> <li>3) Method to Determine Fre</li> <li>4) Approximate Saltwater I</li> <li>5) Approximate Coal Seam</li> <li>6) Approximate Depth to Period</li> <li>7) Does Proposed well local</li> <li>irectly overlying or adjacent</li> </ol>	esh Water Do Depths: <u>172</u> Depths: <u>88</u> ossible Void tion contain t to an active fo: Name:	epths: 33 28', 1753' 7' (coal min coal seam	e, karst, other): s		da	RECEIVED Office of Oil and G

WV Department of Environmental Protection

04/27/2018

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API NO. 47- 085 -

OPERATOR WELL NO. Ray Unit 2H

Well Pad Name: Weekley Trust Pad

18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> <u>(lb/ft)</u>	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: <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#	16000'	16000'	3992 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<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	Lead-H/POZ & 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	BECEIVED

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WW-6B (04/15) WW-6B (10/14)

# 4708510347

API NO. 47- 085

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

MAG-18 2-6-18

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

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

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 32.87 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.15 acres

### 23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.

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

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

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

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

### 25) Proposed borehole conditioning procedures:

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

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

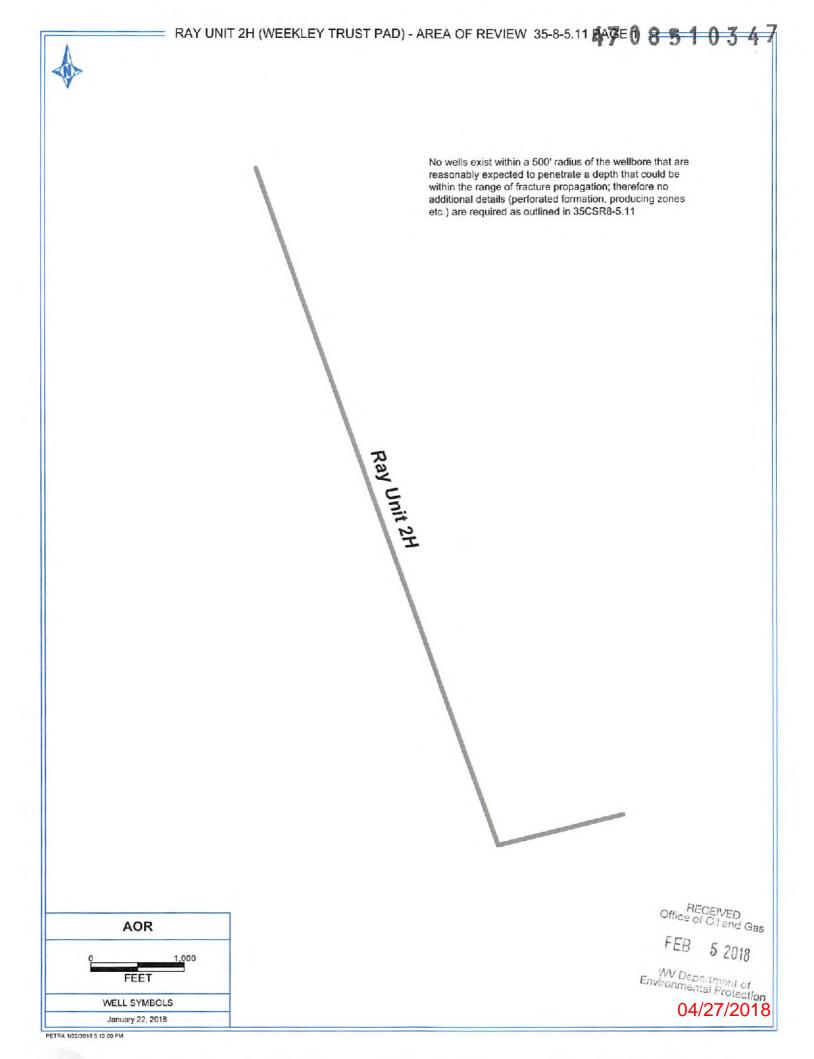
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbis brine water followed by 10 bbis fresh water and 25 bbis bentonite mud, pump 10 bbis fresh water.

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

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\*Note: Attach additional sheets as needed.

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(2/15)	API Number 47 - 085
DEPARTMENT OF	Operator's Well No. <u>Rey Unit 2H</u> E OF WEST VIRGINIA ENVIRONMENTAL PROTECTION ICE OF OIL AND GAS
FLUIDS/ CUTTINGS	DISPOSAL & RECLAMATION PLAN
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 Will a pit be used? Yes No	complete the proposed well work? Yes No No
If so, please describe anticipated pit waste:	il will be used at this site (Dritling and Flowback Fluids will be stored in tanks. Outlings will be lanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes	No V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wast	a will be used at this sets (Diffing and Flowback Fluids will be stored in tanks. C.tings will be lanked and hauled off stor.) No I If so, what ml.? N/A MAC
Land Application	
	Permit Number *UIC Permit # will be provided on Form WR-34 )
	ermitted well locations when applicable. API# will be provided on Form WR-34
Other (Explain	n WW-9 for disposal location) ( <u>Meadowfill Landfill Permit #SWF-1032-98</u> ) Northwestern Landfill Permit #SWF-1025/ <u>WV0109410</u>
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, et	tc. N/A
Additives to be used in drilling medium? Please See Attac	hment
Drill cuttings disposal method? Leave in pit, landfill, rem	oved offsite, etc. Stored in tanks, removed offsite and taken to landfill
-If left in pit and plan to solidify what medium w	ill be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?	owfill Landfill (Permit #SWF-1032-98)
	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the We provisions of the permit are enforceable by law. Violatic law or regulation can lead to enforcement action.	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable

application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature	$\square$	
Company Official (Typed Name) Shawn Donovan	K	ARA QUANT
Company Official TitleEnvironmental Specialist III	MAY COMMANS	TE OF COLORAT
Subscribed and sworn before me this 2nd day of FEDMAN	, 20 18 Notary Public	Office of Offate Gas
My commission expires JULY 21,2018		FEB 09 2018

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WW-9

Form WW-9

Operator's Well No. Ray Unit 2H

\*or type of grass seed requested by surface owner

### Antero Resources Corporation

Proposed Revegetation Treatment: Acres Disturbed 32.87 acres Prevegetation pH Lime 2-4 Tons/acre or to correct to pH 6.5 Fertilizer type Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Access Road "A" -749 (2.72 acres) + Access Road "B" -2486' (10.67 acres) + Well Pad (8.15 acres) + Water Containment Pad (3.70 acres) + Excess/Topsoil Material Stockpiles (7.63 acres) = 32.87 Acres Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Annual Ryegrass 10-15 40 Crownvetch 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 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.

Plan Approved by: Nichael Haff	
Title: Oil& Gas Inspector Date: 2-6-18	RECEIVED Office of Oil and Gas
Title: 0:14 Gas Inspector Date: 2-6-18 Field Reviewed? (Yes ()No	FEB 0 9 2018

WW Department of

04/27/2018

### Form WW-9 Additives Attachment

### SURFACE INTERVAL

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

### **INTERMEDIATE INTERVAL**

### STIFF FOAM RECIPE:

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

### PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets – LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide – Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

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13. Escaid 110
Drilling Fluild Solvent – Aliphatic Hydrocarbon
14. Ligco
Highly Oxidized Leonardite – Filteration Control Agent
15. Super Sweep
Polypropylene – Hole Cleaning Agent
16. Sulfatrol K
Drilling Fluid Additive – Sulfonated Asphalt Residuum
17. Sodium Chloride, Anhydrous
Inorganic Salt
18. D-D
Drilling Detergent – Surfactant
19. Terra-Rate
Organic Surfactant Blend
20. W.O. Defoam
Alcohol-Based Defoamer
21. Perma-Lose HT
Fluid Loss Reducer For Water-Based Muds
22. Xan-Plex D
Polysaccharide Polymer – Drilling Fluid Viscosifier
23. Walnut Shells
Ground Cellulosic Material – Ground Walnut Shells – LCM
24. Mil-Graphite
Natural Graphite – LCM
25. Mil Bar
Barite – Weighting Agent
26. X-Cide 102
Biocide
27. Soda Ash
Sodium Carbonate – Alkalinity Control Agent
28. Clay Trol
Amine Acid complex – Shale Stabilizer
29. Sulfatrol
Sulfonated Asphalt – Shale Control Additive
30. Xanvis
Viscosifier For Water-Based Muds
31. Milstarch
Starch – Fluid Loss Reducer For Water Based Muds
32. Mil-Lube
Drilling Fluid Lubricant

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911 Address 142 Jones Rd Pennsboro, WV 26415

# Well Site Safety Plan

# Antero Resources

# Well Name:

Ray Unit 1H-3H, Swartzmiller Unit 1H-3H, Michael Dall 2-6-18 Cingmars 1H-4H, Goliad Unit 1H-2H

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)

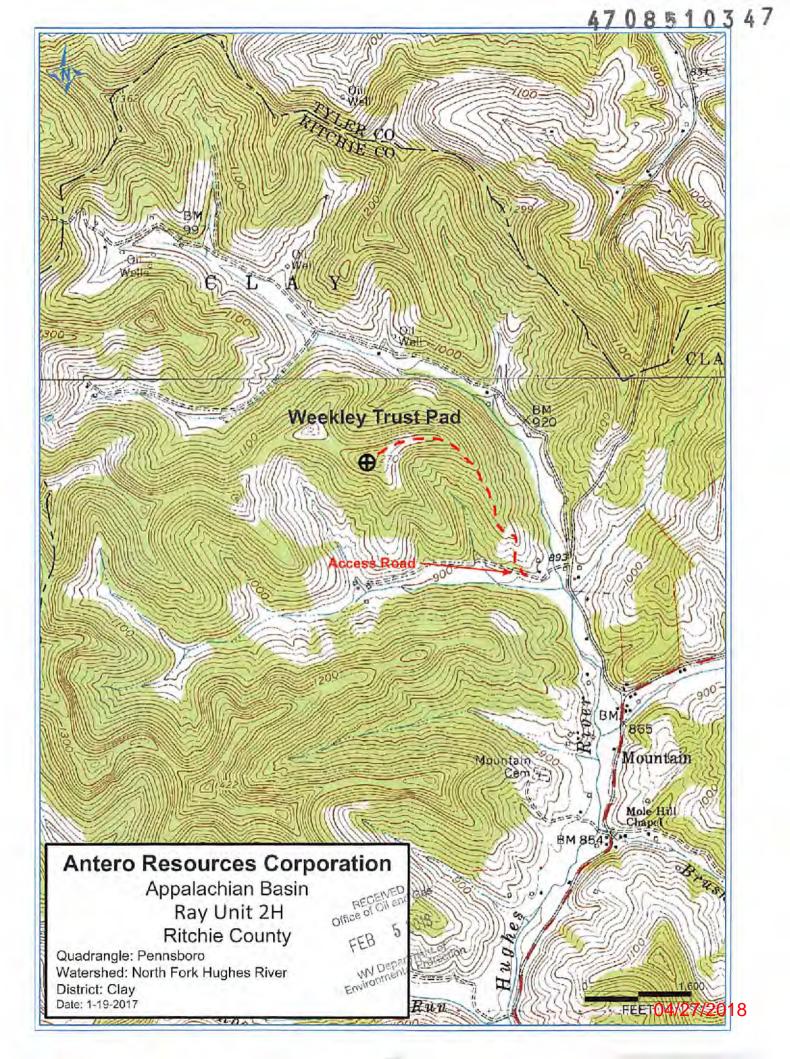
# **Driving Directions:**

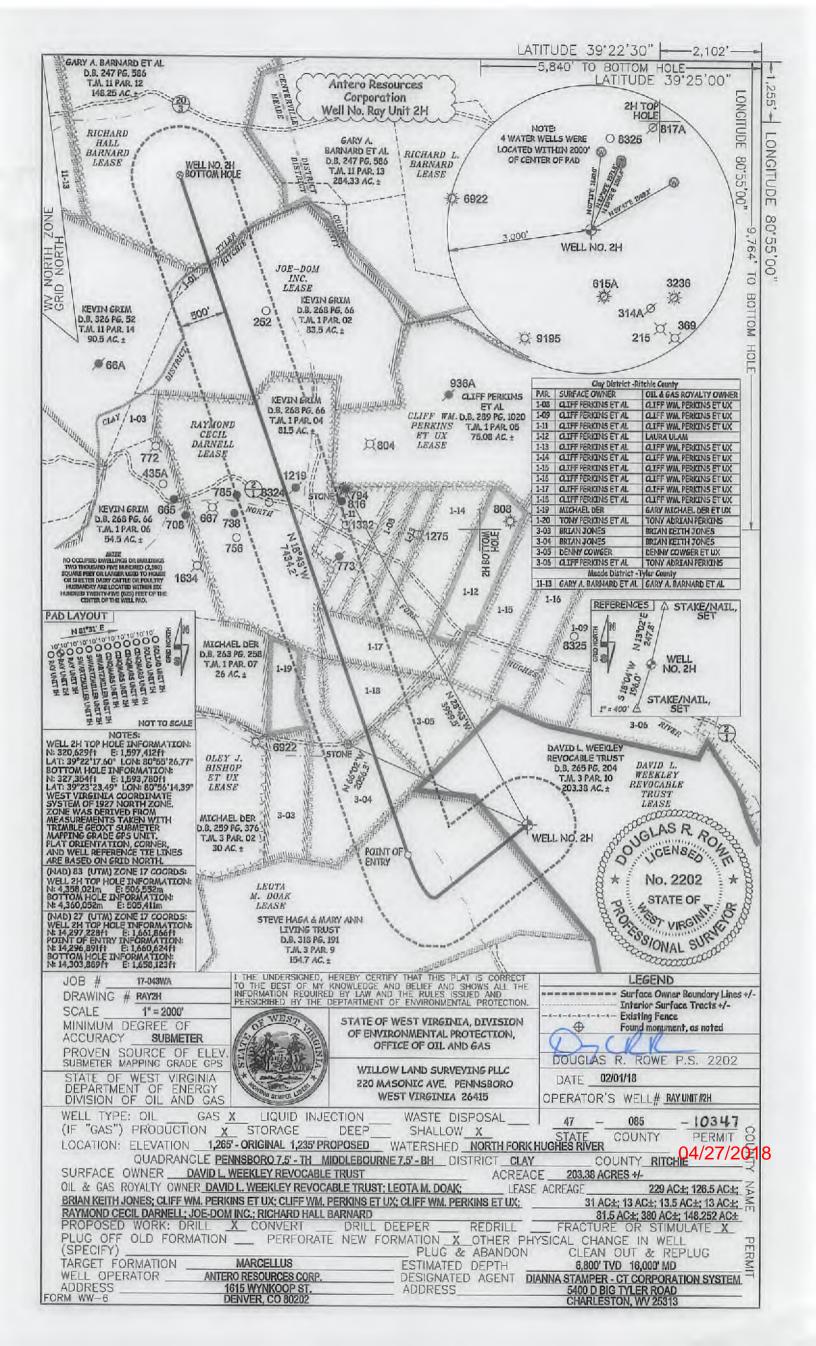
From the intersection of I79 and HWY 50: Travel west on US-50 for 28.7 miles. Turn right onto WV-18 N and head towards West Union. Turn Left onto Davis St/Old U.S. 50 W and continue for 0.4 miles. Turn right onto WV-18N/Sistersville Pike for 12.2 miles. Turn Left onto WV-74 S for 3.7 miles. Turn right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

# Office of Oil and Gas **EMERGENCY (24 HOUR) CONTACT 1-800-878-13**





WW-6A1

**Operator's Well Number** Ray 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:

Grantee, lessee, etc.	Royalty	Book/Page
Antero Resources Corporation	1/8+	0295/0030
Antero Resources Corporation	1/8+	0258/1005
Antero Resources Corporation	1/8+	0303/0899
Antero Resources Corporation	1/8+	0266/0304
Antero Resources Corporation	1/8+	0266/0298
Antero Resources Corporation	1/8+	0266/0268
Antero Resources Corporation	1/8	0305/0292
Gene Stalnaker, Inc. Angus Energy, Inc. Stalnaker Energy Corporation Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Name Change Assignment Name Change	0160/0672 0212/0137 Exhibit 2 0258/0084 Exhibit 1
	Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Antero Resources Corporation Gene Stalnaker, Inc. Angus Energy, Inc. Stalnaker Energy Corporation Antero Resources Appalachian Corporation	Antero Resources Corporation       1/8+         Antero Resources Corporation       1/8         Gene Stalnaker, Inc.       1/8         Angus Energy, Inc.       Assignment         Stalnaker Energy Corporation       Name Change         Antero Resources Appalachian Corporation       Assignment

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APR 2 6 2018

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

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

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

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

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

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

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

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

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

Page 1 of \_\_\_\_

RECEIVED Office of Oil and Gas

FEB 5 2018

WV Department of Environmental Protection

FORM	WW-6A1
EX	HIBIT 1

# FILED

JUN 1 0 2013

Natalio E. Tennant Scoretary of State 1900 Kanawha Bivd E Bidg 1, Suite 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

IN THE OFFICE OF Corporations Division CRETARY OF STATE Tel: (304)558-8080 Website: www.wvsos.com E-mail: business@wvsos.com

Penney Barker, Manager

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

\*\*\*\* In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby \*\*\*\* applies for an Amended Certificate of Authority and submits the following statement:

- Name under which the corporation was authorized to transact business in WV:
- 2. Date Certificate of Authority was issued in West Virginia:
- Corporate name has been changed to: (Attach one <u>Certified Copy of Name Change</u> as filed in home State of incorporation.)
- Name the corporation elects to use in WV: (due to home state name not being available)
- Other amendments: (attach additional pages if necessary)

Antero Resources Appalachian Corporation

6/25/2008

Antero Resources Corporation .

Antero Resources Corporation

 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.)

Alwyn A. Schopp Contact Name

(303) 357-7310

Phone Number

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

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

\*Important Level Notice Reserviting Statistics: For West Virginia Code <u>5311)-1-129</u>. 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 scenatory of state for filing is guilty of a misdomesnor 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.

Perm CF-4

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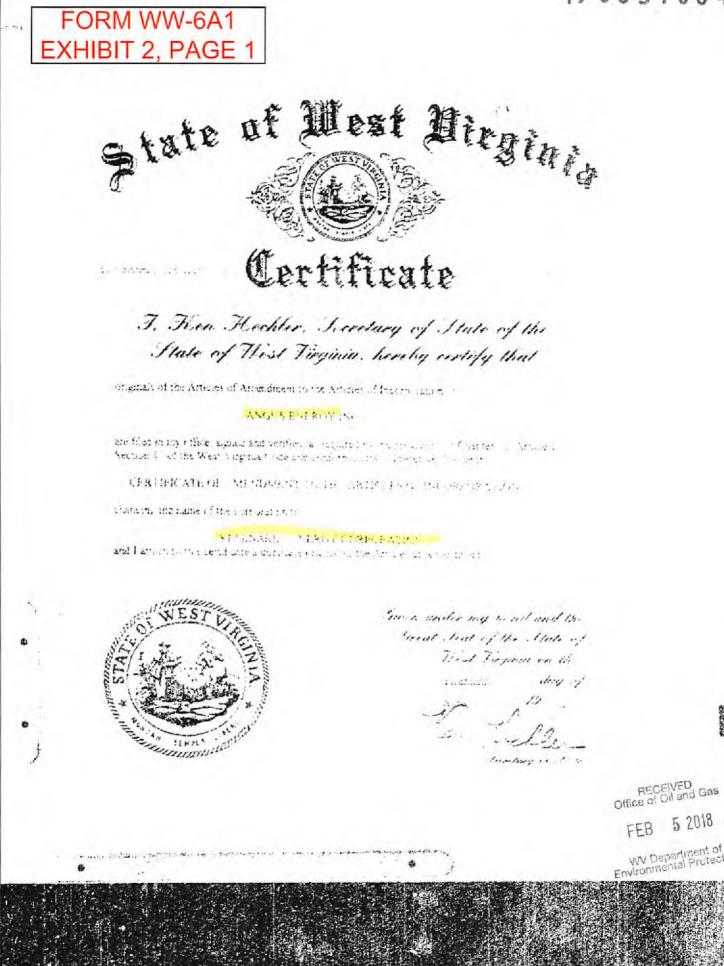
REC

Office of

FEB

WN De

Environm :-



2/1/2018

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

# 4708510347

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

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

Date	Amendment
4/20/1998	CHANGE OF NAME FROM ANGUS ENERGY INC. TO STALNAKER ENERGY CORPORATION
Date	Amendment

Annual Reports	
Date filed	
4/20/2016	RECEIVED Office of Oil and
2/20/2017	FEB 5 20
4/9/2015	
4/21/2014	WV Departme Environmental Pr
2/20/2013	
5/3/2012	
://apps.sos.wv.gov/business/corporations/organization.aspx?org=140106#content	04/27/20

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 57<sup>th</sup> Street SE Charleston, WV 25304

RE: Ray 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 Ray 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 Ray Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

2 1

Thomas Kuhn Senior Landman

> RECEIVED Office of Oil and Gas FEB 5 2018 WV Department of Environmental Protectio

> > 04/27/2018

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

Date of Notice Certification: 02/01/2018

API No. 47- 085	•
Operator's Well No.	Ray 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:

West Virginia	LITM NAD 92 Easting	; 506552m
Ritchie	Northin	ng: 4358021m
Clay	Public Road Access:	CR 2/5
Pennsboro 7.5'	Generally used farm nam	e: David L. Weekley Revocable Trust
North Fork Hughes River		
	Ritchie Clay Pennsboro 7.5'	Ritchie     UTM NAD 83     Northin       Clay     Public Road Access:     Generally used farm name

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 or ■ 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	
<ul> <li>3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</li> <li>WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</li> </ul>	RECEIVED/ NOT REQUIRED
4. NOTICE OF PLANNED OPERATION	RECEIVED
<b>5.</b> 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 § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal certified cases the return receipt card or other postal receipt for certified mailing.

FEB 5 2018 24/19 Department of Environmental Protect

### Certification of Notice is hereby given:

### THEREFORE, | 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	2	Denver, CO 80202	
Its:	Senior VP of Production	Facsimile:	303-357-7315	
Telephone: 303-357-7310		Email:	kquackenbush@anteroresources.com	
1 01	NOTAR TATE OF COLORADO TATE OF COLORADO TATE OF COLORADO TATE OF COLORADO TATE OF COLORADO	Subscribed and swo PULLU My Commission E	orn before me this <u>15</u> <sup>+</sup> day of <u>FLDMANY 20</u> .18 <u>MUKAMANAL</u> Notary Public xpires <u>JUM</u> 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 Office of Oil and Gas FEB 5 2018 WV Department of Environmental Protection

OPERATOR WELL NO. Ray 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

Notice of:

 PERMIT FOR ANY
 CERTIFICATE OF APPROVAL FOR THE

 WELL WORK
 CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the crosion 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:

SURFA	ACE OWNER(s)	1	COAL OWNER
Name: Da	avid L. Weekley Revocable Trust		Name: NO DECLAR.
Address:	16191 Ellsworth Road		Address:
	Berlin Center, OH 44401		1
Name:			COAL OPERA
Address:	F		Name: NO DECLAR
	the state of the state of the		Address:
SURF/	ACE OWNER(s) (Road and/or Other I	Disturbance)	
Name: Da	avid L. Weekley Revocable Trust	/	WATER PURVEY
Address:	16191 Ellsworth Road		SPRING OR OTHE
	Berlin Center, OH 44401		Name: NONE IDEN
Name:			Address:
Address:			
1.1.1.1.1			□ OPERATOR O
USURF/	ACE OWNER(s) (Impoundments or Pi	its)	Name:
Name:			Address:
Address:			
			*Please attach add

COAL OWNER OR LESSEE	TY RECEIVED Office of Oil and Gas
Address:	FEB 5 2018
WATER PURVEYOR(s)/OWNER(s) OF WATER V SPRING OR OTHER WATER SUPPLY SOURCE Name: NONE IDENTIFIED WITHIN 1500 Address:	WELL, *PLEASE NOTE THERE ARE 4 WATER SOURCES SHOWN, HOWEVER THEY ARE LOCATED GREATER THAN 1500' FROM THE SUBJECT PAD LOCATION
OPERATOR OF ANY NATURAL GAS S Name: Address:	STORAGE FIELD

Please attach additional forms if necessary

API NO. 47-085 08510347 OPERATOR WELL NO. Ray 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.

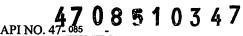
Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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 Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

### Well Location Restrictions

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



OPERATOR WELL NO. Ray 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 we the location or construction of the applicant's proposed well work to the Secretary at: Chief, Office of Oil and Gas

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

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

WV Department of Environmental Protection

# 4708510347

API NO. 47- 085 -

OPERATOR WELL NO. Ray 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.

RECEIVED Office of Oil and Gas

FEB 5 2018

WV Department of Environmental Protection

47 08 51 03 47 API NO. 47-065

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

### Notice is hereby given by:

elephone: (303)	357-7310	Kul	Ulton
-----------------	----------	-----	-------

Address: 16	: 1615 Wynkoop Street		
De	nver, 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>.

the second se	
KARA QUACKENBUSH	
STATE OF COLORADO	
NOTARY ID 20144028297	
MY COMMISSION EXPIRES JULY 21, 2019	
NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20144028297 MY COMMISSION EXPIRES JULY 21, 2019	

Subscribed and sworn befo	re me this 2nd day of	Febman 2018
PRIMILIUM	remanse	Felomany 2018 Notary Public
My Commission Expires	MIY 21.2018	

RECEIVED Office of Oil and Gas

FEB 5 2018

WV Department of Environmental Protection

04/27/2018

### 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	LITEM NIAD 92	Easting:	506577.50m (Approximate Pad Center)	_
County:	Ritchie	UTM NAD 83	Northing:	4358031.88m (Approximate Pad Center)	_
District:	Clay	Public Road Acc	cess:	CR-2/5	_
Quadrangle:	Pennsboro 7.5'	Generally used f	farm 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is here	by given by:			and Gas
Well Operator:	Antero Resources Corporation	Authorized Representative:	Kara Quackenbush	FEB 5 2010
Address:	1615 Wyrikoop St.	Address:	1615 Wynkoop St.	0 2018
	Denver, CO 80202		Denver, CO 80202	Environment of
Telephone:	303-357-7233	Telephone:	303-357-7233	Environmental Protection
Email:	kquackenbush@anteroresources.com	Email:	kquackenbush@anterc	
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. 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>.

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 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):

- tunne.	David L. Weekley Revocable Trust	Name:
	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	UTMANAD 82 E	Easting:	506552m	
County:	Ritchie	UTM NAD 83	Northing:	4358021m	
District:	Clay	Public Road Acces	s:	CR 2/5	
Quadrangle:	Pennsboro 7.5'	Generally used far	m 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 www.dep.wv.gov/oil-andgas/pages/default.aspx.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	Office of Oil and on
Telephone:	(303) 357-7310		Denver, CO 80202	FED
Email:	kquackenbush@anterpresources.com	Facsimile:	303-357-7315	5 2018
				Mar.

### **Oil and Gas Privacy Notice:**

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



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

# **Division of Highways**

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

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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Weekly Trust Pad, Ritchie County Ray 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,

Yang K. Clayton

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

RECEIVED Office of Oil and Gas FEB WV 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 4708510347

	4708510347
Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	Proprietary
Anionic polymer	Proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	Proprietary
Demulsifier Base	Proprietary
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	Proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
	57-50-1
SugarSurfactant	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
	15827-60-8
DETA phosphonate	
Hexamthylene Triamine Penta	34690-00-1 71050-62-9 23605-75-5 500 500 500 500 500 500 500
Phosphino Carboxylic acid polymer	23605-75-5 FED -
Hexamethylene Diamine Tetra 2-Propenoic acid, polymer with 2 propenamide	<u> </u>
	23605-74-5 Viv Der 23605-74-5 Environmental Protection
Hexamethylene diamine penta (methylene phosphonic acid)	111-46-6
Diethylene Glycol	100-97-0
Methenamine Reliethidare polyamine	68603-67-8
Polyethylene polyamine	61791-14-8
Coco amine	
2-Propyn-1-olcompound with methyloxirane	38172-91-7

# WEEKLEY TRUST WELL SITE DESIGN & CONSTI PAD & W

WVDEP OOG APPROVED 3/15/2017

CENTER OF TANK LATITUDE: 39,369138 N 3457744,83 E 50

507175.49

(UTM ZONE 17 METERS)

LATITUDE: 39. N 4357496.20

6897 LONGITUDE: E 507302.94

(UTM ZONE 17 METERS)

LOCATION COORDINATES

CENTROID OF PAD LATITUDE: 39.371729 LONGITUDE: N 4358031.88 E 506577.50

(UTM ZONE 17 METERS)

EROSION & SEDIMENT C

CABIN RUN-NORTH FORK HUGHES USGS 7.5 MIDDLEBOURNE & PENN CLAY DISTRICT, RITCHIE COUNT

GEOTECHNICAL NOTE A SUBSUDFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOLL & ROCK, INC. BETWEEN AUGUST 13, 2014 & SEPTEMBER 03, 2014. THE REPORT PREPARED BY PENNSYLVANIA SOL & ROCK, INC. DATED SEPTEMBER 22, 2014. REVISED NOTMARE NO. 616, REFLECTS THE RESULTS SOL & ROCK, INC. DATED SEPTEMBER 22, 2014. REVISED NOTMARE NO. 616, REFLECTS THE RESULTS SOL & ROCK, INC. DATED SEPTEMBER 22, 2014. REVISED NOTMARE NO. 616, REFLECTS THE RESULTS SOL & ROCK, INC. DATED SEPTEMBER 22, 2014. REVISED NOTMARE NO. 616, REFLECTS THE RESULTS SOL & ROCK, INC. DATED SEPTEMBER 22, 2014. REVISED NOTMARE NO. 718, SUBSURFACE THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THE REPORT WERE USED IN THE FREEMANTON OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED 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. R THE LOCATING OF SS UTILITY WILL BE S PROJECT. #54085C0125C AID Z 3 08 - 18 ate an 1 (A) WELL PAD Contraction. ENTRANCE -1

MISS UTILITY STATEMENT ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR UTILITIES FROME TO THIS BROISE DESIGN. TICKET #1421955455. IN ADDITION, MISS CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS

ENTRANCE

PERMIT

FLOODPLAIN NOTE IS LOCATED WITHIN FEMA FLOOD ZONE "X" FER FEMA FLOOD MAP

GENERAL DESCRIPTION THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS

ARE BEING CONSTRUCTED TO

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHITE OAKS BLVD. BRIDGEPORT, WY 26320 PHONE: (304) 842-4100 FAX: (304) 842-4102 CONTACTS RENEE HECKEL - LAND AGENT CELL: (304) 614-7053

= 2000

PROJECT

ENGINEER/SURVEYOR: NAVTUS ENGINEERING, INC. CYRUS S. KUMP. PE - PROIECT MANAGER/ENGINEER OFFICE: (868) 662-4185 CELL: (540) 886-6747

ENVIRONMENTAL: ALISTAR ECOLOGY, LLC OVAN L. WARD - ENVIRONMENTAL SCIENTIST OVAN L. WARD - ENVIRONMENTAL SCIENTIST OVAN L. WARD - ENVIRONMENTAL SCIENTIST

JON MEEVERS - OPERATIONS SUPERINTENDENT OFFICE: (303) 357-5799 CELL: (303) 805-2423 ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE: (304) 842-4068 CELL: (304) 478-9770

CONSTRUCTION SUPERVISOR

GEOTECHNICAL: PERNSYLVANA SOL & ROCK, NC. PERNSYLVANA SOL & ROCK, NC. CHRISTOPHER W. SAMDOS-PROJECT ENGINEER OFFICE: (412) 372-4000 CELL. (412) 589-0052

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

OFFICE: (304) 842-4100 ( AARON KUNZLER - CO CELL: (405) 227-8344

CELL: (304) 627-7405

RESTRICTIONS NOTES: 1. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET ( PAD AND LOD, THERE IS A WEILAND ADJACENT TO ACCESS ROAD "A" THAT WILL REMAIN 100 FEET OF THE WELL UNDISTURBED.

10 THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD

THE

č. THERE ARE NO GHOUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF WELL PAD AND LOD.

WELL(S) BEING APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE

(J) DRILLED WITHIN 625 FEET OF THE CENTER OF THE WELL PAD

0 THERE ARE NO OCCUPIED DWELLING STRUCTURES

THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2.500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

REPRODUCTION 10 NOTE E

THESE PLANS WERE REPRODUCTIONS IN GRAY INFORMATION AND SHOULD PAPER HALF SCALE DRAWINGS CREATED FOR COLOR PLOTTING AND ANY SCALE OR COLOR MAY RESULT IN A LOSS OF NOT BE USED FOR CONSTRUCTION PURPOSES ARE ON PLOTTED ON (ANS) B) 3 (ANSI PAPER



0 A

DESIGN CERTIFICATION THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN REPEARED IN ACCORDANCE WITH THE WEST VIRGUNA CODE OF STATE RULES, DIVISION OFFICE ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-6.

# RUCTION PLAN, ATER ONTROL 0 PLANS INTAINMENT PAD

# , WEST VIRGINIA RIVER WATERSHED

BORO QUAD MAPS





WEST VIRGINIA STATE PLANE COORDINATE SYSTEM NORTH ZONE, NADE3 ELEVATION BASED ON NAVDB8 ESTABLISHED BY SURVEY GRADE GPS & OPUS POST-PROCESSING

=	10	φ	8	~	0	CT	4	ω	20	-
1	1	1	1	1	1	÷	1	1	t	1
11 - WATER CONTAINMENT PAD GRADING PLAN	WELL PAD PLAN	ACCESS ROAD PLAN	ACCESS ROAD & WATER CONTAINMENT PAD PLAN	L PLAN SH	EXISTING CONDITIONS, STRUCTURES & FEATURES	STORM DRAINAGE COMPUTATIONS	MATERIAL QUANTITIES	LEGEND	CONSTRUCTION AND E&S CONTROL NOTES	COVER SHEET

SHEET INDEX

- DING PLAN
- SS R PAD GRADING FLAN SROAD SECTORS SROAD SECTORS SROAD SECTORS SROAD SECTORS SROAD SECTORS SROAD SECTORS
- NIIIII SECTIONS
- 26 18 54 38
- UCTION DETAILS AD & WATER CONTAINMENT PAD IN PLAN

25

- RECLAMATION PLAN AMATION PLAN TECHNICAL DETAILS

WEEKLEY TRUST LIMITS OF DISTURBANCE AREA (AC)           Total Site           mpacts to David L. Weekley, Trustee of the David L. Weekley           Revocable Trustee of the David L. Weekley           Revocable Trustee of the David L. Weekley           Access Road "B" (749)         2.72           Access Road "B" (2.486)         8.15           Water Containment Pad         3.70           Excess/Tossiol Material Stockpiles         7.93
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And the local division of the local division

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")
rid L. Weekl	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)

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

Init 14 E	Ray N.	ell Name	Tota		Exces			P		an anomelian
1507402 38	N 320627.84	WV North	al Wooded	Total Af	s/Topsoil	Water Cor	We	vccess Ro	Access R	Revo
E 1507402 38 E 1555061 32	N 320662.16	NAD 83	Total Wooded Acres Disturbed	<b>Total Affected Area</b>	Excess/Topsoil Material Stockpiles	Water Containment Pad	Well Pad	Access Road "B" (2,486"	Access Road "A" (749)	ocable Trust
E 506549 28	N 4358020.94	UTM (METERS) Zone 17	bed		kpiles			-		Revocable Trust UTA TM 3-10
LONG -80-55-26 2802	LAT 39-22-17.8714	Zone 17 NAD 83 Lat 8 Long	30.22	32.87	7.63	3,70	8.15	10.67	2.72	

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	Water Co	Water Containment Pad		3.70
	Excess/Topsoil Material Stockpiles	Material Stoc	kpiles	7.63
	Total Al	Total Affected Area		32.87
	Total Wooded	Total Wooded Acres Disturbed	bed	30.22
osed	WV North NAD 27	WV North	UTM (METERS) Zone 17	Zone 17 NAD 83 Lat & Long
Ye	N 320627.84	N 320662.16	N 4358020.94	LAT 39-22-17.8714
H	E 1597402.38	E 1555961 32	E 506549.28	LONG -80-55-26 2802
Ye	N 320629.32	N 320663.64	N 4358021 44	LAT 39-22-17.8875
EH	E 1597412.28	E 1565971 21	E 506552.28	LONG -80-55-26,1546
Ye	N 320530.79	N 320685.11	N 4358021.94	LAT 39-22-17 9037
E3H	E 1597422.17	E 1565981.10	E 500555.29	LONG -80-55-26 0290
zmiller	N 320632.26	N 320666,59	N 4358022.44	LAT 39-22-17.9198
H	E 1597432.05	E 1565990 99	E 506558.29	LONG -80-55-25.9033
rmiller	N 320633.74	N 320968.05	N 4358022 94	LAT 39-22-17.9359
- PE	E 1807441 05	E 1507441 05 E 1500000 84	E SOARA 30	LONG -80-55-25 7777

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Unit

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MARCO

Cinqmare Unit 3H

E 1591/461.72 E 1500/220.00 N 3200/381 5 N 3200/27.49 N 3200/39.45 N 3200/27.49 E 1591/241.55 E 1500/20.4 N 3200/41.11 N 3200/75.44 E 1591/261 42 E 1580/200.32 N 3200/42.59 N 3200/76.20 E 1591/261 42 E 1580/200.22 N 3200/4.05 N 3200/76.38

050.33

N 4358025.4 E 506576.33 N 4358024 E 506573.0

E 506579.33

10-22-18 0488 3 -80-55-24.8982

80-55-25.0239 0-55-25 1495

Unit 4H

Unit 1H

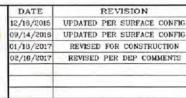
Unit 3H Cinqmars Unit 1H Cinqmars Unit 2H

WVDOH COUNTY ROAD MAP

COVER SHEET

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







WV Departme fironmental Protection ASHEET 1

FEB

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WINAL ENGLA

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2 DATE: 11/12/2015

SCALE: AS SHOWN

OF 28



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

in

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