

### 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 CINOMARS UNIT 2H

47-085-10342-00-00

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: CINQMARS UNIT 2H

Farm Name: DAVID L. WEEKLEY REVOCA

U.S. WELL NUMBER: 47-085-10342-00-00

Horizontal 6A New Drill

Date Issued: 4/27/2018

API Number:	
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### PERMIT CONDITIONS 4708510342

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

### CONDITIONS

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

API Number:	

### PERMIT CONDITIONS 4708510342

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.

API NO. 47-085

OPERATOR WELL NO, Cingmars 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 Re	sources Corpor	494507062	085 - Ritchie	Clay	Pennsboro 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's Wel	l Number: C	inqmars Unit 2H	Well P	ad Name: Week	ley Trust	Pad
3) Farm Name/Su	rface Owner:	David Weekley L. Revoo	cable Trust Public Re	oad Access: CR-	2/5	
4) Elevation, curre	ent ground:	~1265' H	Elevation, propose	d post-construction	on: 1235'	
5) Well Type (a	) Gas X ther	Oil	Un	derground Storag	ge	
(b		allow X	Deep	-		Michael Dall 2-6-18
6) Existing Pad: Y	es or No No	)				2-6-18
7) Proposed Targe Marcellus Shale			cipated Thickness ess- 75 feet, Assoc			*
8) Proposed Total	Vertical Dep	th: 6800' TVD				
9) Formation at To	tal Vertical I	Depth: Marcellu	s			
10) Proposed Tota	l Measured D	Depth: 19300' N	<b>MD</b>			
11) Proposed Hori	zontal Leg Le	ength: 10862'				
12) Approximate I	resh Water S	Strata Depths:	Offset well records.	Depths have been ad	ljusted accor	ding to surface elevations.
13) Method to Det	ermine Fresh	Water Depths:	338', 375'			
14) Approximate S	Saltwater Dep	oths: 1728', 175	3'			
15) Approximate (	Coal Seam De	epths: 887'				
16) Approximate I	Depth to Poss	ible Void (coal m	ine, karst, other):	None Anticipat	ed	
17) Does Proposed directly overlying			Yes	No	x	
(a) If Yes, provid	e Mine Info:	Name:				
		Depth:			RE	CEIVED
		Seam:			Office of	Oil and Gas
		Owner:			FEB	0 9 2018

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

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

18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	425' *see #19	425' *see #19	CTS, 590 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	19300'	19300'	4899 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners						***	

MAC 18

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Leady SPOZ & Tall - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

### **PACKERS**

N/A	
N/A	
N/A	RECEIVED
	N/A

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WV Department of Environmental Protection Page 2 of 3 WW-6B (10/14)

API NO. 47- 085

OPERATOR WELL NO. Cinquars Unit 2H

Well Pad Name: Weekley Trust Pad

MAC-18/

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

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

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

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

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

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

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

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

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

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

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

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

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

25) Proposed borehole conditioning procedures:

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

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

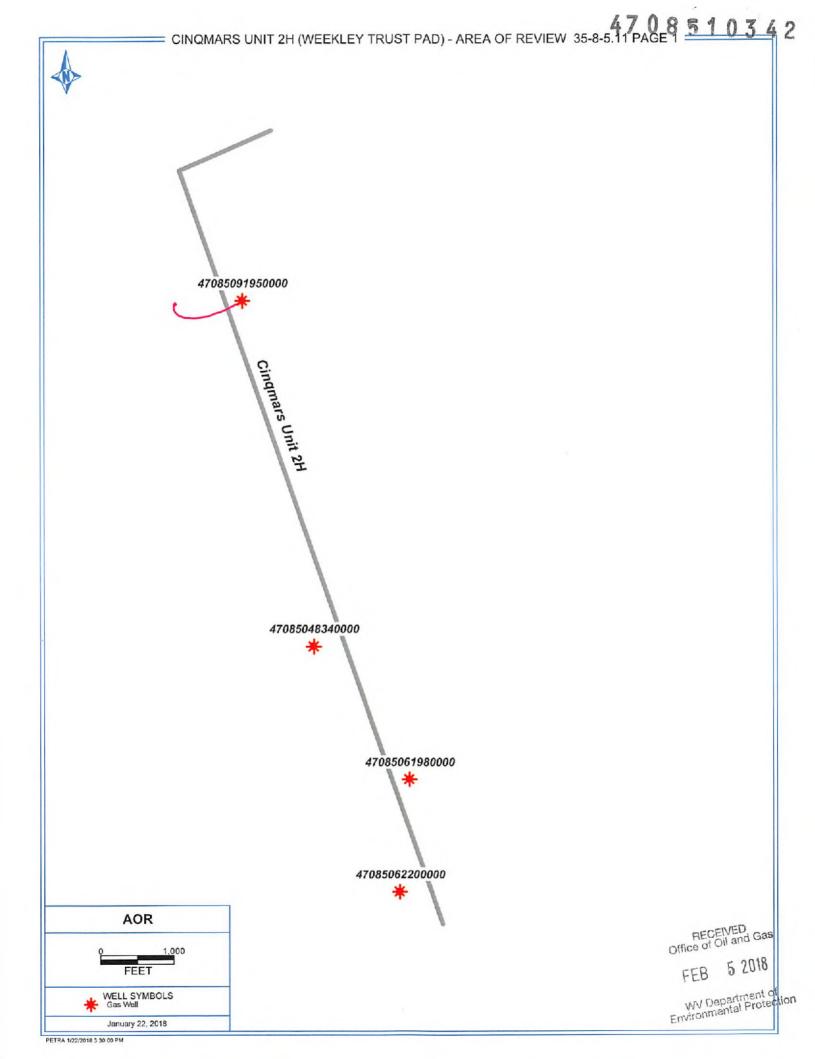
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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

Office of Oil and Gas

\*Note: Attach additional sheets as needed.

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UWI (APINum)	Well Name	Well Number Operator		Hist Oper	Ð
47085091950000 HA	HAUGHT FAMILY TRUST	1	POSTROCK EASTERN PRO	PETROEDGE RES WV LLC	0899
47085048340000	7085048340000 MCCULLOUGH BEN ETAL	1	PETROLEUM RESOURCES	CHASE PETROLEUM CO	5423
47085051980000	7085061980000 BURG JACK ET AL	J-747	ENERGY CORP OF AMER	J & J ENTERPRISES	5200
47085052200000	7085052200000 BURG JACK ET AL	J-74S	ENERGY CORP OF AMER	J & J ENTERPRISES	5175
ELEV_GR	TD (SSTVD)	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd	
924	-5756	-5756 6166-6543	Cashaqua-West River, Marcellus	Bradford, Huron, Weir, Riley, Benson, Alexander, Rhinestreet	
1038	-4385	4385 4580-5246	Bradford, Alexander	Huron, Weir, Riley, Benson,	
853	•	4347 4348-4349	Riley, Alexander	Bradford, Huron, Weir, Benson	
833		4340 4330-5017	Riley, Angola	Bradford, Huron, Weir	

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WW-9 (2/15)

API Number 47 -	085	•
Operator's	Well No.	Cinqmars Unit 2H

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

	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 V	
If so, please describe anticipated pit waste:	alt will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled on site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wast  Land Application  Underground Injection (UIC)	No If so, what ml.? N/A  No V If so, what ml.? N/A  Permit Number *UIC Permit # will be provided on Form WR-34  Name of the site (Drifting and Flowback Fluids will be stored in tanks. Cuttings will be tanked and haused on site.)
	permitted well locations when applicable. API# will be provided on Form WR-34
Off Site Disposal (Supply form Other (Explain	n WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)  Northwestern Landfill Permit #SWF-1025/  WV0109410
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. Surface - Air/Freshwater, Intermediate - Dust/Stiff Foam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, e	tc. N/A
Additives to be used in drilling medium? Please See Attac	chment
Drill cuttings disposal method? Leave in pit, landfill, rem	noved offsite, etc. Stored in tanks, removed offsite and taken to landfill
-If left in pit and plan to solidify what medium w	rill be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?Mead	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. I certify under penalty of law that I have person	
Company Official Signature	Kon
Company Official (Typed Name) Shawn Donovan	NOT QUACK
Company Official Title Environmental Specialist III	MY COMMISSION D 201 ORA DO
Subscribed and sworn before me this 2nd day	Notary Public Office of Oil and Gas
My commission expires TUIN 21, 2018	FEB <b>0 9</b> 2018
	WV Department of Environmental Protection

Lama	WW-9
roim	W W -2

Proposed Revegetation Treatmen	nt: Acres Disturbed 32.87 a	cres Prevegetation p	н
Lime 2-4	Tons/acre or to correct to pl	1 <u>6.5</u>	
Fertilizer type Hay or st	raw or Wood Fiber (will be used	where needed)	
Fertilizer amount 500	n	os/acre	
Mulch 2-3	Tons/	асте	
Access Road "A" -749' (2.72		cres) + Well Pad (8.15 acres) + Water Containment les (7.63 acres) = 32.87 Acres	Pad (3.70 acres) + Excess/Topsoil
Temp	orary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional seed type	(Weekley Trust Pad Design Page 25)	See attached Table IV-4A for additional seed ty	pe Weekley Trust Pad Design Page 25)
*or type of grass seed reque	sted by surface owner	*or type of grass seed reque	ested by surface owner
Drawing(s) of road, location, pit provided)		plication (unless engineered plans in	cluding this info have been
Attach: Drawing(s) of road, location, pit provided) Photocopied section of involved Plan Approved by:		plication (unless engineered plans in	cluding this info have bee
Drawing(s) of road, location, pit provided)  Photocopied section of involved	7.5' topographic sheet.	plication (unless engineered plans in	cluding this info have been
Drawing(s) of road, location, pit provided)  Photocopied section of involved  Plan Approved by:	7.5' topographic sheet.	plication (unless engineered plans in	cluding this info have been
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Drawing(s) of road, location, pit provided)  Photocopied section of involved  Plan Approved by:  Comments:	7.5' topographic sheet.		
Drawing(s) of road, location, pit provided)  Photocopied section of involved  Plan Approved by:	7.5' topographic sheet.	Date: 2 - 4 - 1	

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### Form WW-9 Additives Attachment

### **SURFACE INTERVAL**

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

### **INTERMEDIATE INTERVAL**

### STIFF FOAM RECIPE:

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

### **PRODUCTION INTERVAL**

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol - Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

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13. Escaid 110

Drilling 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 Maff 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:**

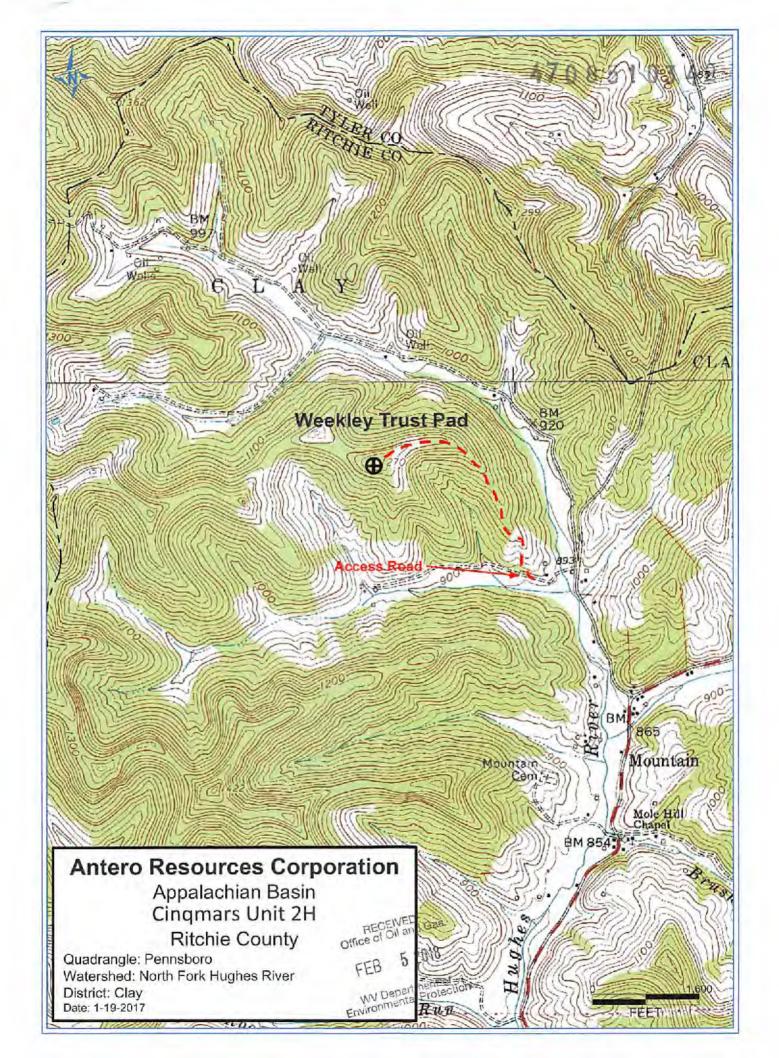
From the intersection of I79 and HWY 50: Travel west on US-50 for 28.7 miles. Turn right onto WV-18 N and head towards West Union. Turn Left onto Davis St/Old U.S. 50 W and continue for 0.4 miles. Turn right onto WV-18N/Sistersville Pike for 12.2 miles. Turn Left onto WV-74 S for 3.7 miles. Turn right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

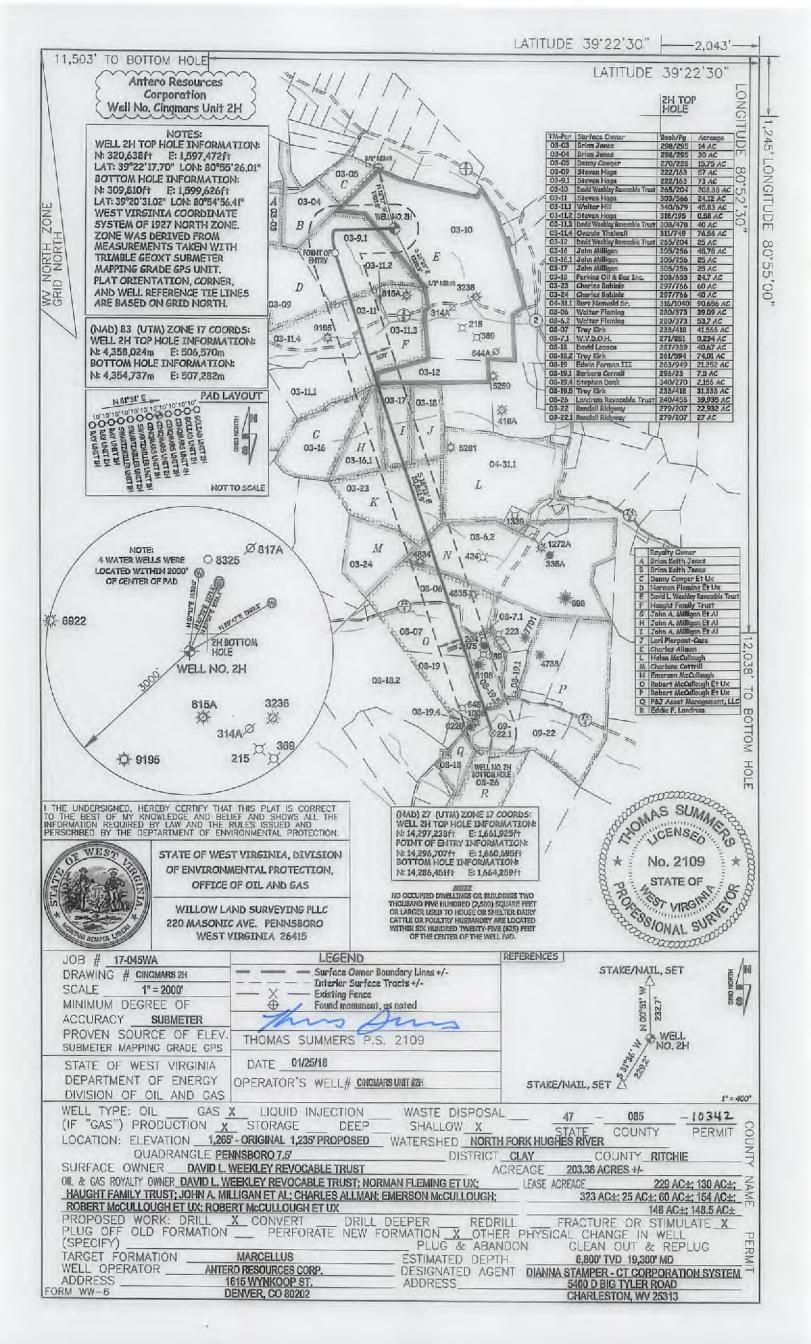
### Alternate Route:

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.

EMERGENCY (24 HOUR) CONTACT 1-800-878-1.357 and Gas

FEB 0 9 2018





Operator's Well Number

Cinqmars 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
Norman Fleming, et ux Lease			_
Norman Fleming, et ux	Antero Resources Corporation	1/8+	0306/0511
Haught Family Trust Lease			
Haught Family Trust (dated April 17, 1989)	Top Drilling Corporation	1/8	0257/0864
Top Drilling Corporation	Antero Resources Appalachian Corporation	Assignment	0258/0435
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
John A. Milligan, et al Lease			
John A. Milligan, et al	Antero Resources Appalachian Corporation	1/8+	0254/0428
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Charles Allman Lease			
Charles Allman	Antero Resources Appalachian Corporation	1/8+	0257/0162
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0705
Emerson McCullough Lease		. 15	4=c /0c0
Emerson McCullough	Alton Skinner	1/8	176/360
Alton Skinner	Chase Petroleum Inc	Assignment	142/374
Chase Petroleum Inc	Antero Resources Appalachian Corporation	Assignment	254/133
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Robert McCullough, et ux Lease			
Robert McCullough, et ux	Jack Burg	1/8	0130/0445
Jack Burg	J & J Enterprises, Inc.	Assignment	0152/0114
J & J Enterprises, Inc.	Eastern American Energy Corp.	Assignment	0231/0732
Eastern American Energy Corp	Energy Corp of America	Assignment	0306/0836
Energy Corp of America	Antero Resources Appalachian Corporation	Assignment	0257/0377 Exhibit 1
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exnint 1

APR 2 6 2018

<sup>\*</sup>Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and anather the discussion of the Marcellus and any other formations completed with this well.

### 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
			San Array
Robert McCullough	Jack Burg	1/8	130/297
Jack Burg	J & J Enterprises Inc	Assignment	152/109
J & J Enterprises Inc	Eastern American Energy Corp	Confirmatory Deed & Assignment of Leases	231/732
Eastern American Energy Corp	Energy Corp of America	Confirmatory Deed & Assignment of Leases	306/836
Energy Corp of America	Antero Resources Appalachian	Assignment	257/377
Antero Resources Appalachian Corp.	Antero Resources Corporation	Name Change	Exhibit 1
	Robert McCullough Jack Burg J & J Enterprises Inc Eastern American Energy Corp Energy Corp of America	Robert McCullough Jack Burg Jack Burg J & J Enterprises Inc Eastern American Energy Corp Eastern American Energy Corp Energy Corp of America Energy Corp of America Antero Resources Appalachian	Robert McCullough Jack Burg 1/8 Jack Burg J & J Enterprises Inc Assignment J & J Enterprises Inc Eastern American Energy Corp Confirmatory Deed & Assignment of Leases Eastern American Energy Corp Energy Corp of America Confirmatory Deed & Assignment of Leases Energy Corp of America Antero Resources Appalachian Assignment

\*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 PECEIVED

Senior VP of Production Office of Oil and Gas

FEB 5 2018

### FORM WW-6A1 EXHIBIT 1

FILED

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

FILE ONE ORIGINAL (Two if you want a filed stamped copy returned to you) FEE: 825:00



Penney Barker, Manager
IN THE OFFICE OF Corporations Division
SECRETARY OF STATE Tel: (304)558-8000
Fax: (304)558-8381

Website: www.wysos.com
E-mail: business@wysos.com

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

\*\*\*\* 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:

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

1. Name under which the corporation was Antero Resources Appelachian Corporation authorized to transact business in WV: 2. Date Certificate of Authority was 6/25/2008 issued in West Virginia: Antero Resources Corporation 3. Corporate name has been changed to: (Attach one Certified Conv of Name Change as filed in home State of incorporation.) Antero Resources Corporation 4. Name the corporation elects to use in WV: (due to home state name not being available) 5. Other amendments: (attach additional pages if necessary) Name and phone number of contact person. (This is optional, however, if there is a problem with the filling, fisting a contact person and phone number may avoid having to return or reject the document.) (303) 357-7310 Alwn A. Schopp Contact Name Phone Number 7. Signature information (See below \*Important Legal Notice Regarding Signature): Title/Capacity: Authorized Person Print Name of Signer: Abyn A. Schop Date: June 10, 2013 Signature: \**Important Leval Notice <u>Répari</u>ting Signature*: Per West Virginia Cade <u>6311)-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 secretary of state for filing is guilty of a misdomessor and, upon conviction thereof, shall be fitted 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
FEB 5 2018
WV Department of Environmental Protection



February 2, 2018

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

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

RE:

Cinquars 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 Cinquars 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 Cinquars 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

Office of Oil and Gas

FEB 5 2010

Date of Notice Certification: 02/01/2018

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

API No. 47- 085

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:				-	Well No. Cinqr	
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:			`	Well Pad N	lame: Weekley	/ Trust Pad
below for the tract of land as follows:  State: West Virginia  Public Road Access: Generally used farm name: Devid L. Weekley Revocable Trust  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, thin formation required by subsections (b), section isticen of this article, this fairtile; (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 stated in writing by the surface owner, and 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:  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:  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:  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:  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:  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:  Pursuant to West Virginia Code § 22-6A, the Operat						
State:   West Virginia   UTM NAD 83   Easting:   508570m   Morthing:   4350024m   Morthing:   Mor			22-6A, the Operator has provi	ided the req	<sub>l</sub> uired parties v	vith the Notice Forms listed
County: Ritchie District: Clay District: Clay District: Clay Quadrangle: Pennaboro 7.5' 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 (if it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section strictle, 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 were waived in writing by the surface owner; and 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**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED Or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  4. NOTICE OF PLANNED OPERATION  5. PUBLIC NOTICE  7. RECEIVED  7. RECEIVED  7. RECEIVED  7. RECEIVED  7. RECEIVED  7. RECEIVED				n .•		
County: Ritchie						
Quadrangle: Watershed: Watershed: Watershed: Watershed: Watershed: Watershed:  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 ter 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  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  4. NOTICE OF PLANNED OPERATION  4. NOTICE OF PLANNED OPERATION  5. PUBLIC NOTICE  7. RECEIVED  7. RECEIVED  7. RECEIVED  8. RECEIVED  8. RECEIVED  8. RECEIVED  8. RECEIVED  9. RECEIVED	-		<del></del>	•		
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	■ 4. NO?	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 6. NOTICE OF APPLICATION   RECEIVED	■ 5. PUB	BLIC NOTICE				☑ RECEIVED
	■ 6. NO	TICE OF APPLICATION				RECEIVED

### **Required Attachments:**

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal activities, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

### Certification of Notice is hereby given:

THEREFORE, I Kevin Kilstrom	, have read and understand the notice requirements within West Virginia Code § 22-
6A. I certify that as required under West Virg	ginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified
	al 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 attachme	ents, and that based on my inquiry of those individuals immediately responsible for
obtaining the information, I believe that the in	formation is true, accurate and complete. I am aware that there are significant penalties
for submitting false information, including the	possibility of fine and imprisonment.

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

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

Denver, CO 80202

Facsimile: 303-357-7315

Email: kquackenbush@anteroresources.com

KARANQUARXEFALUSH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20144028297 MY COMMISSION EXPIRES JULY 21, 2018 day of FEDMUM

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

> RECEIVED Gas FEB 5 2018 WV Department of Environmental Protection

WW-6A (9-13) API NO. 47-085 8 5 1 0 3 4 2
OPERATOR WELL NO. Cinqmars Unit 2H
Well Pad Name: Weekley Trust Pad

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

Notice Time Requirement: notice shall be provide	d no later than the filing date of permit application.	
Date of Notice: 2/2/2018 Date Permit Application Notice of:	n Filed: 2/2/2018	
·	ATE OF APPROVAL FOR THE CTION OF AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code	e § 22-6A-10(b)	
□ PERSONAL □ REGISTERED MAIL	✓ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION	
registered mail or by any method of delivery that requisediment control plan required by section seven of this the surface of the tract on which the well is or is proposed of and gas leasehold being developed by the proposed described in the erosion and sediment control plan suboperator or lessee, in the event the tract of land on whi more coal seams; (4) The owners of record of the surfacell work, if the surface tract is to be used for the place impoundment or pit as described in section nine of this have a water well, spring or water supply source located provide water for consumption by humans or domestic proposed well work activity is to take place. (c)(1) If n subsection (b) of this section hold interests in the lands records of the sheriff required to be maintained pursual provision of this article to the contrary, notice to a lien Code R. § 35-8-5.7.a requires, in part, that the operate water purveyor or surface owner subject to notice and	Plan Notice ☑ Well Plat Notice is hereby provided to:	erosion and where of record of acts overlying the isturbance as he coal owner, lerlain by one or I by the proposed adonment of any he applicant to I which is used to he which the scribed in escribed in the withstanding any downer. W. Va.
SURFACE OWNER(s) Name: David L. Weekley Revocable Trust	☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Address: 16191 Ellsworth Road  Berlin Center, OH 44401	Address:	
Name:Address:	☐ COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:	
SURFACE OWNER(s) (Road and/or Other Disture Name: David L. Weekley Revocable Trust Address: 16191 Ellsworth Road	rbance)  WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE *PLEAS	E NOTE THERE ARE 4 WATER
Name:	Name: NONE IDENTIFIED WITHIN 1500' SOURCE LOCATE Address: SUBJECT	ED GREATER THAN 1500' FROM THE T PAD LOCATION
Address: SURFACE OWNER(s) (Impoundments or Pits)	OPERATOR OF ANY NATURAL GAS STORA	AGE FIELD
Name:Address:	Address:	
Address:	*Please attach additional forms if necessary	RECEIVED Office of Oil and Gas
		FEB 5 2018
		WV Department of Environmental Protection

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

FEB 5 2018 47 0 8 5 1 0 3 4 2

OPERATOR WELL NO. Cinquars Unit 2H

Environmental Priveth Bad 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 <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

### Well Location Restrictions

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

WW-6A (8-13)

8510342

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

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

FEB 5 2018

WW-6A (8-13)

API NO. 47- 085

OPERATOR WELL NO. Cinqmars 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.

office of Oil and Gas
FEB 5 2018

WV Department of Environmental Protection

WW-6A (8-13)

4708510342

API NO. 47- 085

OPERATOR WELL NO. Cinquars Unit 2H

Well Pad Name: Weekley Trust Pad

Notice is hereby given by:

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

Email: kquackenbush@anteroresources.com

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

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

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

Notary Public

My Commission Expires JUN 21, 2018

Office of Oil and Gas

FEB 5 2018

WV Department of Environmental Protection

WW-6A4 (1/12) Operator Well No. Cinqmars Unit 2H

Multiple Wells on Weekley Trust Pad

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

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

Date of Noti	Requirement: Notice shall be provided at le ce: 01/08/2018 Date Perm	east TEN (10) days prior to filing a lit Application Filed: 02/02/2018	permit application.
Delivery me	thod pursuant to West Virginia Code § 22-	-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVI		JESTED	
receipt reque drilling a hor of this subsec- subsection m and if availab	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given pretion as of the date the notice was provided to ay be waived in writing by the surface owner ole, facsimile number and electronic mail addereby provided to the SURFACE OWN	r notice of its intent to enter upon to ursuant to subsection (a), section to the surface owner: <i>Provided, hower.</i> The notice, if required, shall includes of the operator and the operator	he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number,
	id L. Weekley, Revocable Trust UTA		
Address: 1619	91 Ellsworth Rd.	Address:	
Berl	in Center, OH 44401		
	West Virginia Code § 22-6A-16(b), notice is		
Pursuant to V the surface of State: County:	West Virginia Code § 22-6A-16(b), notice is wher's land for the purpose of drilling a horiz West Virginia  Ritchie	zontal well on the tract of land as for UTM NAD 83 Easting: Northing:	506577.50m (Approximate Pad Center) 4358031.88m (Approximate Pad Center)
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### 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

470 851 0342

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

Date of	Notice:	02/02/2018 Date Peri			-	
Deliver	y metho	d pursuant to West Virginia Co	ode § 22-6A-1	б(с)		
■ CI	ERTIFIE	ED MAIL	☐ HAND			
R	ETURN	RECEIPT REQUESTED	DELIV	'ERY		
return re the plan required drilling damages	eceipt reconnect open to be proof a horist to the son t	quested or hand delivery, give the ration. The notice required by ovided by subsection (b), section izontal well; and (3) A proposed urface affected by oil and gas op	e surface owne this subsection ten of this art d surface use a erations to the	er whose land a shall inclu- icle to a surf and compens extent the da	I will be used for de: (1) A copy ace owner whos sation agreemen amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
	ddress lis	r provided to the SURFACE O' sted in the records of the sheriff a		otice): Name:		
Address	· 16191 Ell	eworth Boad	- /			
	•	SWOIDITOOD	•	Address	s:	
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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 RECEIVED Office of Oil and Gas 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

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

Jim Justice Governor

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

Cinquars Unit 2H Well site

Dear Mr. Martin,

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

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Day K. Clayton

Regional Maintenance Engineer

Central Office O&G Coordinator Office of

Cc: Kara Quickenbush

Antero Resources Corporation

CH, OM, D-3

File

Office of Oil and Gas

FEB 5 2018

WV Department of WV Departmental Protection

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

Additives	Chemical Abstract Service Number	
Additives	(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	
sopropyl alcohol	67-63-0	
iquid, 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	
Hexamthylene Triamine Penta	34690-00-1	
Phosphino Carboxylic acid polymer	71050-62-9	
Hexamethylene Diamine Tetra	23605-75-5	
2-Propenoic acid, polymer with 2 propenamide		
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5 RECEIVE	D Gas
Diethylene Glycol	( Oil s	٠.١٨
Methenamine	100 07 0	V LA.
Polyethylene polyamine	68603-67-8 61791-14-8 W Department 38172-91-7	ant
Coco amine	61791-14-8 W Deparence	arthich Ital Pro
2-Propyn-1-olcompound with methyloxirane	38172-91-7 Environmen	•

# WEEKLEY TRUST WELL PAD & W

LOCATION COORDINATES
ACCESS ROAD ENTRANCE
LATITUDE: 99.366897 LONGITUDE:
N 4557496.20 E 507302.94 (UTM ZONE 17 METERS)

CENTER OF TANK LATITUDE: 39,369 NITUDE: 39.369138 LONGITUDE: 3457744.83 E 507175.49 (UTM ZONE 17 METERS)

CENTROID OF PAD LATITUDE: 59.371729 LONGITUDE: -69.823639 (NAD 83) N 4358031.66 E 506577.50 (UTM ZONE 17 METERS)

### WVDEP OOG APPROVED

EROSION & SEDIMENT

CLAY DISTRICT, RITCHIE COUN' CABIN RUN-NORTH FORK HUGHES

SITE DESIGN & CONST

3/15/2017

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

MAP

#54085C0125C

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

MISS UTILITY STATEMENT
ANTERO RESOURCES CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF
UTILITIES PRIOR TO THIS PROJECT DESIGN, TICKET \$1421955455. IN ADDITION, MISS UTILITY WILL BE
CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT

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

ENVIRONMENTAL NOTES

STREAM AND WEILAND DELINEATIONS WERE PERFORMED IN JUNE, 2012, & REEVALUATED MAY, 2015 & STREAM AND WEILAND DELINEATIONS WERE PERFORMED IN JUNE, 2012, & REEVALUATED MAY, 2015 & SEPTEMBER, 2015 BY ALLSTAR ECOLOGY, LLC TO REVIEW OF THE U.S. ARMY CORPS OF ENGLISHES (USACE) AND/OR THE WEST VIRGINA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WODEP). THE OCTOBER 16, 2015 STREAM & WEILAND DELINEATION MAP WAS PREPARED BY ALLSTAR ECOLOGY, LLC AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION AT THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DEFERMINATION OF THE LANDWARD LIMITS OF WATERS AND WEILANDS WHICH MAY BE REGULATED BY THE USACE OR THE WYDEP.

## GEOTECHNICAL NOTE

A SUBSURFACE INVESTIGATION OF THE PROPOSED STIE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK INC. BETWEEN AUGUST 13, 2014 & SEPTEMBER 05, 2014. THE REPORT PREFARED BY PENNSYLVANIA SOIL & ROCK, INC. DATE SEPTEMBER 22, 2014, REVISED NOVEMBER 10, 2015, REFLECTS THE RESULTS SOIT THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS, PLASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED INVESTIGATION. ROCK,

## PROJECT CONTACTS

OPERATOR:
ANTERO RESOURCES CORPORATION
535 WHITE OAKS BLVD.
536 WHITE OAKS BLVD.
536 WHITE OAKS BLVD.
6330
BRDGEPORT, WV 26330
PHONE. (304) 842-4100
FAX: (304) 842-4102

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

JON MCEVERS - OPERATIONS SUPERINTENDENT OFFICE: (303) 357-6788 CELL: (303) 808-2423

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

OFFICE: (304) 842-4100 ( D ENGINEER CELL: (304) 627-7405

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

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

ENGINEER/SURVEYOR:
NAVITUS ENGINEERING, INC.
CYRUS S. KUMP, PE - PROJECT
OFFICE: (888) 682-4185 CELL: (540) 686-6747

ENVIRONMENTAL:
ALISTIK ECOLOGY, LLC
RYAN L. WARD — ENVIRONMENTAL SCIENTIST
RYAN L. WARD — ENVIRONMENTAL SCIENTIST
OFFICE: (066) 213-2666 CELL: (304) 692-7477

GEOTECHNICAL:
PENNSYLVANIA SOLL & ROCK, INC.
CHRISTOPHER W. SAMOS-PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 588-0682

- RESTRICTIONS NOTES:

  1. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS PAD AND LOD. THERE IS A WETLAND ADJACENT TO ACCESS ROAD "A" THAT WILL REMAIN UNDISTURBED
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD
- THERE ARE NO WELL PAD AND I GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY LCD. FACILITIES WITHIN 1000 FEET OF THE
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED. THE CENTER OF THE WELL PAD
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE CENTER OF THE WELL PAD. PEET WITHIN 625 FEET OF THE

### REPRODUCTION NOTE

PAPER. HALF SCALE DRAWINGS TIED ON =

LOSS OF PURPOSES

### (a) 8) (e) B) USGS 7.5 MIDDLEBOURNE & PENN WELL 4

PAD

PROPOSED



(0)

## WEST VIRGINIA COUNTY MAP



ACC.

(NOT TO SCALE)

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

# ATER CONTAINMENT PAD

00 CH smile 0 CN afra N

## RUCTION PLAN,

**PLANS** 

RIVER WATERSHED

SBORO QUAD MAPS





WEST VIRGINIA STATE PLANE COORDINATE SYSTEM NORTH ZONE, NAD63 ELEVATION BASED ON NAVDB6 ESTABLISHED BY SURVEY GRADE GPS & OPUS POST-PROCESSING

GEND
TORM DRAINAGE COMPUTATIONS
TORM DRAINAGE COMPUTATIONS
RESTRICTURES & FEATURES
VERALL PLAN SHEET INDEX & VOLUMES
VERALL PLAN SHEET INDEX & VOLUMES
CERSS ROAD & WATER CONTAINMENT PAD PLAN
FELL PAD PLAN
FELL PAD GRADING PLAN
MELL PAD GRADING PLAN
KCLESS ROAD & CULVERT PROPILES
ACCESS ROAD & COLVERT PROPILES
ACCESS ROAD & TATER CONTAINMENT PAD SECTIONS
WELL PAD & WATER CONTAINMENT PAD SECTIONS
TORMOTORY

ACCESS ROAD & TATER CONTAINMENT PAD SECTIONS

WELL PAD & WATER CONTAINMENT PAD SECTIONS

CTION DETAILS

& WATER CONTAINMENT PAD
PLAN

ECHAMATION PLAN
AMATION PLAN
ECHNICAL DETAILS

Total Wooded Acres Disturbed	Total Affected Area	Excess/Topsoil Material Stockpiles	Water Containment Pad	Well Pad	Access Road "B" (2,486')	Access Road "A" (749')	Impacts to David L. Weekley, Trustee of the David L. Weekley Revocable Trust UTA TM 3-10	Total Site	ALCTRICAL LINGS I CHILLS OF CO. CHOOSING CONT. (S.C.)
30.22	32.87	7.63	3.70	8.15	10.67	2.72	David L. Weekley		Or MILA MO

Ray	Proposed Well Name	
N 320627.84	WV North NAD 27	000
N 320662, 16	WW North	nal wooden rouse plaquing
N 4358020 94	UTM (METERS) Zono 17	
N 320627.84 N 320682.16 N 4358020.94 LAT 39-22-17.8714	WV North UTM (METERS) NAD 83 Let 8 Long NAD 83 Zone 17	00.00

WVDOH COUNTY ROAD MAP



### WEEKLEY TRUST

WELL PAD & WATER CONTAINMENT PAD

CLAY DISTRICT RITCHIE COUNTY, WEST VIRGINIA



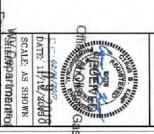
1	n ten lanes	
п.	2/16/2015	UPDATED PER SURFACE CONFIG
0	9/14/2016	UPDATED PER SURFACE CONFIG
0	1/18/2017	REVISED FOR CONSTRUCTION
0	2/16/2017	REVISED PER DEP COMMENTS



SHEET INDEX

COVER SHEET
CONSTRUCTION AND E&S CONTROL NOTES
LEGEND

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



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1-800-245-4848
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(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!!

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