

west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary www.dcp.wv.gov

Wednesday, November 10, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for SANDY UNIT 1H 47-085-10417-00-00

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: SANDY UNIT 1H

Farm Name: DAVID W & DAVID MARTIN

U.S. WELL NUMBER: 47-085-10417-00-00

Horizontal 6A New Drill Date Issued: 11/10/2021

API Number:	
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PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

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	- 10417
OPERATOR WE	LL NO. Sandy Unit 1H
Well Pad Name	P· Weekley West Pad

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

1) Well Operator	r: Antero F	Resources	Corporat	494507062	085-Ritchie	Union	Pullman/Oxford7.5
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Number:	Sandy U	nit 1H	Well Pac	d Name: Week	ley West F	Pad /
3) Farm Name/S	urface Own	er: Antero Res	sources Corpo	Public Roa	d Access: Col	Rd 22/3	
4) Elevation, cur	rent ground	: 1,138'	Ele	evation, proposed	post-construction	on: 1,125	; '
,	(a) Gas <u> </u>	<	_ Oil	Und	erground Storag	ge	
,		Shallow Horizontal	X	Deep			
6) Existing Pad:					_		
				ipated Thickness a hickness 55', As)#
8) Proposed Total	al Vertical D	Depth: 7,00	00' -				
9) Formation at	Total Vertic	al Depth:	Marcellu	IS			
10) Proposed To	tal Measure	d Depth:	17,600'	,			
11) Proposed Ho	orizontal Leg	g Length:	7,303'				
12) Approximate	e Fresh Wate	er Strata De	pths:	258', 330', 47	'8'		
13) Method to D	etermine Fr	esh Water D	epths: Re	eference wells 08508569, 08508	58, 08508582 Depths have I	oeen adjusted accor	ding to surface elevations
14) Approximate	e Saltwater I	Depths: 1,0	015' (refe	rence well 0850	3139), 1,976' (reference	well 08507618)
15) Approximate	e Coal Seam	Depths: 7	34' (refer	ence well 08507	618), 1,495' (r	eference v	well 08503139)
16) Approximate	e Depth to P	ossible Voi	d (coal mi	ne, karst, other):	None anticip	ated	
17) Does Propos directly overlyin				ns Yes	No	X	
(a) If Yes, prov	vide Mine In	fo: Name:					
		Depth					
		Seam:		-			
		Owner	r:				

API NO. 47- 085 - 10417

OPERATOR WELL NO. Sandy Unit 1H
Well Pad Name: Weekley West 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, 218 Cu. Ft.
Fresh Water	13-3/8	New	J-55	54.5#	528	528	CTS, 477 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#	17,600	17,600	CTS, 4063 Cu. Ft.
Tubing	2-3/8	New	N-80	4.7#			
Liners							

Buyer Hain /

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"	0.380"	2730	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	8-3/8"& 8-1/2"	0.415"	12,630	9300		
Tubing	2-3/8	4.778"	0.190"	11,200		Lead-H-POZ & Tallet	H/POZ-1.44 & H-1.8
Liners							

RECEIVED
Office of Oll and Gas

PACKERS

OCT 18 204

Kind:	N/A	WV Department of Environmental Protection
Sizes:	N/A	
Depths Set:	N/A	

WW-6B
(10/14)

API NO. 47- 085 - 10417

OPERATOR WELL NO. Sandy Unit 1H

Well Pad Name: Weekley West Pad

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.
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): 58.63
22) Area to be disturbed for well pad only, less access road (acres): 8.23
23) Describe centralizer placement for each casing string:
Conductor: No centralizers. Surface Casing: One centralizer 10' above the float shoe and one every 4th joint spaced up the hole to surface. Intermediate Casing: One centralizer above float joint, one centralizer 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 Casing: Class A cement with 2-3% calcium chloride and 1/4 lb of flake. Intermediate Casing: Class A cement with 1/4 lb of flake, 5 gallons of clay treat.
Production Casing 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 Casing Tail Cement: Class H + 45 PPS Calcium Carbonate + 1.0% Flake + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20.
25) Proposed borehole conditioning procedures:

*Note: Attach additional sheets as needed.



Weekley West Pad

- O Weekley West Unit 5H
 - O Sandy Unit 1H
 - O Earl Unit 2H
 - Earl Unit 1H
 - Maxson Unit 2H
 - Maxson Unit 1H
 - O Gander Unit 1H

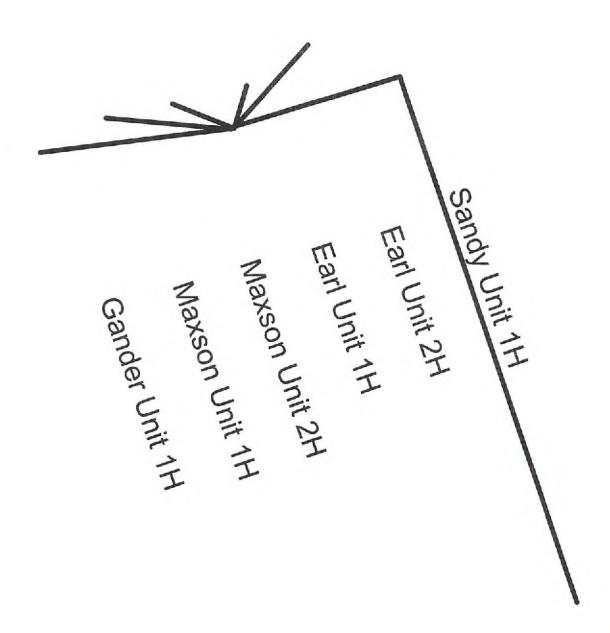


Updated: 9/27/202

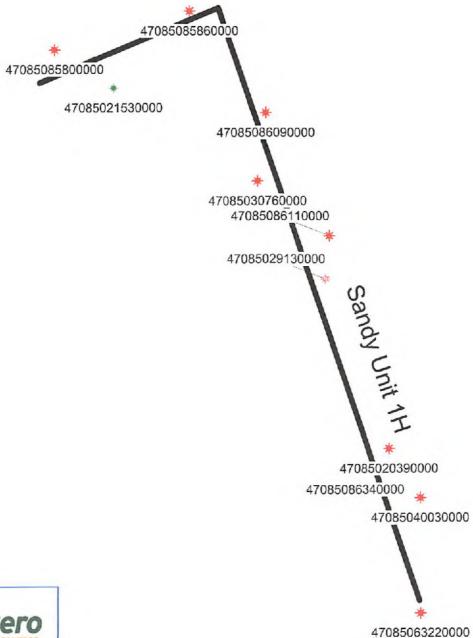
NOT-1/13/2021

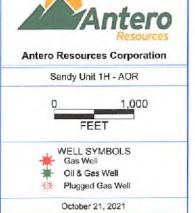


Weekley West - Lateral Diagram



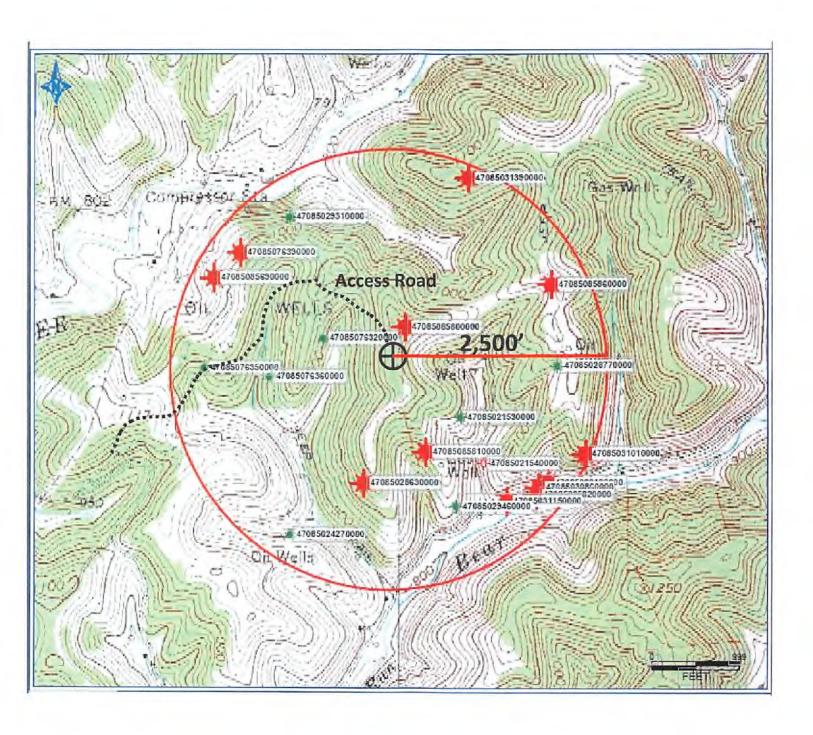






Sandy Unit 1H - AOR

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085085860000	PIERCE	4	KEY OIL CO	KEY OIL INC	5,386	Unknown	Warren, Speechly, Balltown, Riley, Alexander, Benson	Gordon, Berea
47085086090000	BECK	i	KEY OIL CO	KEY OIL INC	5,024	Unknown	Warren, Speechly, Balltown, Riley, Alexander, Benson	Gordon, Berea
47085030760000	J PIERCE HRS	1	R & R OIL & GAS LLC	FRIESTAD FRANCIS	1,862	Unknown	Big injun	Gordon, Berea
47085086110000	PIERCE JACOB A	1	KEA OIT CO	KEY OIL INC	5,370	Unknown	Warren, Speechly, Balltown, Riley, Alexander, Benson	Gordon, Berea
47085029130000	O P JETT	1	GRUSS JOSEPH S	GRUSS JOSEPH S	2,182	Unknown	Big Injun	Gordon, Berea
47085020390000	MARY BRITTON	1	HAUGHT ENERGY CORP	MOSSOR W H	1,901	Unknown	Maxton	Gordon, Berea
47085086340000	MAXSON	1	KEY OIL CO	KEY OIL INC	5,333	Unknown	Warren, Speechly, Balltown, Riley, Alexander, Benson	Gordon, Berea
47085040030000	BRITTON ELIZABETH	4942	EQT PRODUCTION CO	PITTSBURGH&W VA GAS	1,940	Unknown	Maxton, Big Injun	Gordon, Berea
47085063220000	CORDER BONNIE ET AL	1	ROSS & WHARTON GAS	CHASE PETROLEUM CO	5,000	Unknown	Alexander	Gordon, Berea
47085021530000	EARL PIERCE	1	RITCHIE PET CORP	HEASTER PAUL ET AL	1,960	Unknown	Big Injun	Gordon, Berea
47085085800000	PIERCE	1	KEY OIL CO	KEY OIL INC	5,438	3448 - 5250	Warren, Speechly, Balltown, Riley, Alexander, Benson	Gordon, Berea



API Number 47 - 085 10417

Operator's Well No. Sandy Unit 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resource	es Corporation	OP Code 49-	4507062
Watershed (HUC 10) South F		Quadrangle Pullman 7.57/Ox	
Do you anticipate using more t Will a pit be used? Yes	han 5,000 bbls of water to comp	plete the proposed well work? Yes	s No No
If so, please describe	The state of the s		
	be used in the pit? Yes	No ✓ If so, what ml.? N	I/A
	ethod For Treated Pit Wastes:		
_ ■ Und		it Number *UIC Permit # will be provided well locations when applicable. API# will be c	
D Off:		W-9 for disposal location) Meadowf	ill Landfill Permit #SWF-1032-98) ern Landfill Permit #SWF-1025/
Will closed loop system be use	d? If so, describe: Yes, fluids :	stored in tanks, cuttings removed offs	ite and taken to landfill.
		tal)? Air, freshwater, oil based, etc.	Surface - Air/Freshwater, intermediate -
-If oil based, what type	e? Synthetic, petroleum, etc. S	Synthetic	
Additives to be used in drilling	medium? Please See Altachmer	nt	
Drill cuttings disposal method?	Leave in pit, landfill, removed	offsite, etc. Drill cuttings stored in tanks	s, removed offsite and taken to landfill.
-If left in pit and plan	to solidify what medium will be	e used? (cement, lime, sawdust) N/	4
-Landfill or offsite nar		andfill (Permit #SWF-1032-98), Northwestern Lar	
Permittee shall provide written West Virginia solid waste facili where it was properly disposed.	ity. The notice shall be provided	Gas of any load of drill cuttings or a d within 24 hours of rejection and th	ssociated waste rejected at any e permittee shall also disclose
on August 1, 2005, by the Offic provisions of the permit are en law or regulation can lead to en I certify under penalty application form and all attac	the of Oil and Gas of the West V forceable by law. Violations of forcement action. I have personally himents thereto and that, base elieve that the information is	conditions of the GENERAL WAT irginia Department of Environments of any term or condition of the general y examined and am familiar with and on my inquiry of those individually true, accurate, and complete. I are	al Protection. I understand that the eral permit and/or other applicable the information submitted on this luals immediately responsible for
Company Official Signature 6	retchen Kohler		
Company Official (Typed Nam	ie) Gretchen Kohler		
Company Official Title Director	or, Environmental and Regulatory	Compliance	
Subscribed and sworn before m	e this 5th day of (Ortolor 202	U
	Jan o Bloom	Notary P	ublic DIANE BLAIR
My commission expires	27 Apr 202	H	NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-200
			11/12/2021

Operator's Well No. Sandy Unit 1H

Mulch 2-3 Tons/ac Access Road "A" (9.18 acres) + Access Road "B" (2.59 acres) Stockpiles (26	where needed) s/acre
Fertilizer amount 500 lbs. Mulch 2-3 Tons/ac Access Road "A" (9.18 acres) + Access Road "B" (2.59 acres) Stockpiles (26 Seed) Temporary Seed Type lbs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Margery Pad Design) *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land applica provided). If water from the pit will be land applied, include dim	Seed Type Ibs/acre Crownvetch Tall Fescue 30
Mulch 2-3 Tons/ac Access Road "A" (9.18 acres) + Access Road "B" (2.59 acres) Stockpiles (26 Seed Temporary Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Margery Pad Design) *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land applica provided). If water from the pit will be land applied, include dim	Staging Area (0.41) + Well Pad (13.44 acres) + Excess/Topsoil Material (26.03 acres) = 51.65 Acres
Access Road "A" (9.18 acres) + Access Road "B" (2.59 acres) Stockpiles (26 Seed Temporary Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Margery Pad Design) *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land applica provided). If water from the pit will be land applied, include dim	Staping Area (0.41) + Well Pad (13.44 acres) + Excess/Topsoil Material (26.03 acres) = 51.65 Acres Mixtures Permanent Seed Type Ibs/acre Crownvetch 10-15 Tall Fescue 30 See attached Table IV-4A for additional seed type (Margery Pad
Temporary Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Margery Pad Design) *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land applica provided). If water from the pit will be land applied, include dim	Name
Seed Type Ibs/acre Annual Ryegrass 40 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Margery Pad Design) *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land applica provided). If water from the pit will be land applied, include dim	Permanent Seed Type Ibs/acre Crownvetch 10-15 Tall Fescue 30 See attached Table IV-4A for additional seed type (Margery Pad
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Attach: Maps(s) of road, location, pit and proposed area for land applica provided). If water from the pit will be land applied, include dim	*or type of grass seed requested by surface of
Attach: Maps(s) of road, location, pit and proposed area for land applica provided). If water from the pit will be land applied, include dim	
Photocopied section of involved 7.5' topographic sheet.	
Plan Approved by: Butter Harm	RECEIVED
Comments:	Office of Oil and Gas
	OCT 1 8 2021
	WV Department of Environmental Protection

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

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



RECEIVED Office of Oil and Gas

OCT 08 2021

WV Department of Environmental Protection

ANTI-COLLISION

1. Definitions

Center to Center Distance (C-C): The measured distance [ft] between two wellbore centers at a given point; measured along the axis of closest approach to the offset wellbore's center.

Ellipse of Uncertainty: A volume used to indicate the possible magnitude of a wellbore's position at a given depth based on the accuracy of the surveying tools used.

Distance between Ellipsoids: The measured distance [ft] between the edges of the generated ellipses of uncertainty for the reference well and offset well.

Separation Ratio (SR) Anti Collision Rules:

- $SR = \frac{C-C \text{ Distance}}{C-C \text{ Distance} Distance \text{ between Elipsoids}}$
- A Separation Ratio is a purely mathematical concept that supposes that the
 closest distance between two ellipsoids of uncertainty whose major or
 minor axes are not parallel can be determined by ordinary Calculus. The
 SR is a dimensionless number that can be used to determine the possible
 separation between wellbores, while accounting for their ellipsoids of
 uncertainty and not just c-c distance.

Separation Ratio SR ¹	Planning	Drilling
Less than 1.0	Consideration on a well by well basis	STOP AND REVIEW for HSE Risk then Follow collision risk procedures
Greater than or equal to 1.0, less than 1.5	OK	Follow collision risk procedures and monitor AC while drilling
Greater than 1.5	OK	Drill ahead, follow collision risk procedures

Rev.2; Date: 7/31/2017

2. Anti-Collision Guidelines

Collision risk procedures shall be followed whenever the SR is less than 1.5 anywhere along the well path to be drilled. A SR> 1.0 indicates no overlap of the ellipsoids and, therefore, no chance that the wells may intersect.

- Prior to drilling, the drilling consultant and directional drillers must verify
 that the well slot coordinates and surface elevations are correct, that the
 bottom hole targets and intended well profiles are correct, and that all survey
 data used for proximity calculations are the definitive data available at the
 time.
- During drilling operations, the directional drilling provider shall provide Antero Resources with up-to date survey printouts and horizontal and vertical plots as required.
- The directional drilling provider shall provide 24-hr watch when drilling operations are conducted with SR less than 1.5.
- The bottom-hole assembly should be designed so as to leave the shortest possible distance between the primary directional survey instrument and the drill bit to improve steering effectiveness. If a gyro is to be used for orientations and surveys, leaving out the M/LWD tools may be considered.
- Magnetic-based survey tools are not to be considered as the primary data source when drilling close to an adjacent cased well-bore due to the potential for magnetic interference. Data analysis will indicate a magnetic interference problem in most instances.
- For all gyro surveys anti-collision reports and summary detailing C-C distances and SR to be provided at each survey station and survey frequency to be determined on the case by case basis.
- It is required that proximity calculations be performed and updated at each survey point and/or at least every 90ft dependent on adjacent well proximity as long as the SR are greater than 1.5. When using gyro surveys and when the SR is less than 1.5 the surveys should be conducted every 30ft

Rev.2; Date: 7/31/2017 Page 2 of 3

Current Well is within the Critical Zone

The following actions should be performed if the current well has entered into an area where the SR is less than 2.0:

- Proximity calculations and projections should be performed at each survey point. 30ft interval close surveys should be used if the SR is less than 1.5, but should be considered anytime during this phase until the current well exits the critical zone.
- Drilling should proceed with caution to negate any potential damage in the event of contact.

Rev.2; Date: 7/31/2017 Page 3 of 3



911 Address 2635 Holbrook Road Pullman, WV 26451

Well Site Safety Plan Antero Resources

Bujar Harm

Well Name: Earl Unit 1H, Earl Unit 2H, Maxson Unit 1H, Maxson Unit 2H, Gander Unit 1H, and Sandy Unit 1H

Pad Location: WEEKLEY WEST PAD

RECEIVED
Office of Oil and Ga

Ritchie County/Union District

OCT 18 202/

GPS Coordinates:

WV Department of Environmental Protection

Entrance - Lat 39.165921'/ Long -80.887167 '(NAD83)

Pad Center - Lat 39.169704'/ Long -80.875163' (NAD83)

Driving Directions:

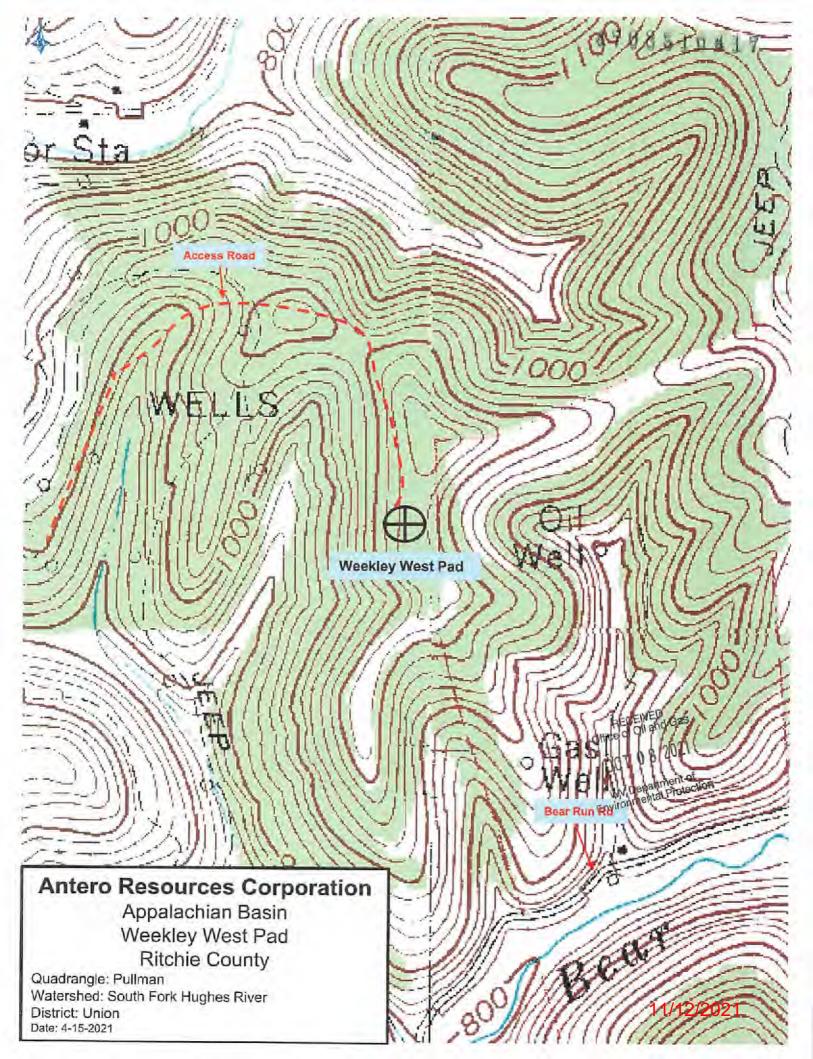
From Pullman: Head northeast on Main Street toward Ash Hill Street for 0.3 miles. Turn right onto Oxford Road for 2.5 miles. Slight right onto White Oak Road for 1.9 miles. Turn right onto CO Rd 22/3 for 0.5 miles. Lease road will be on your left.

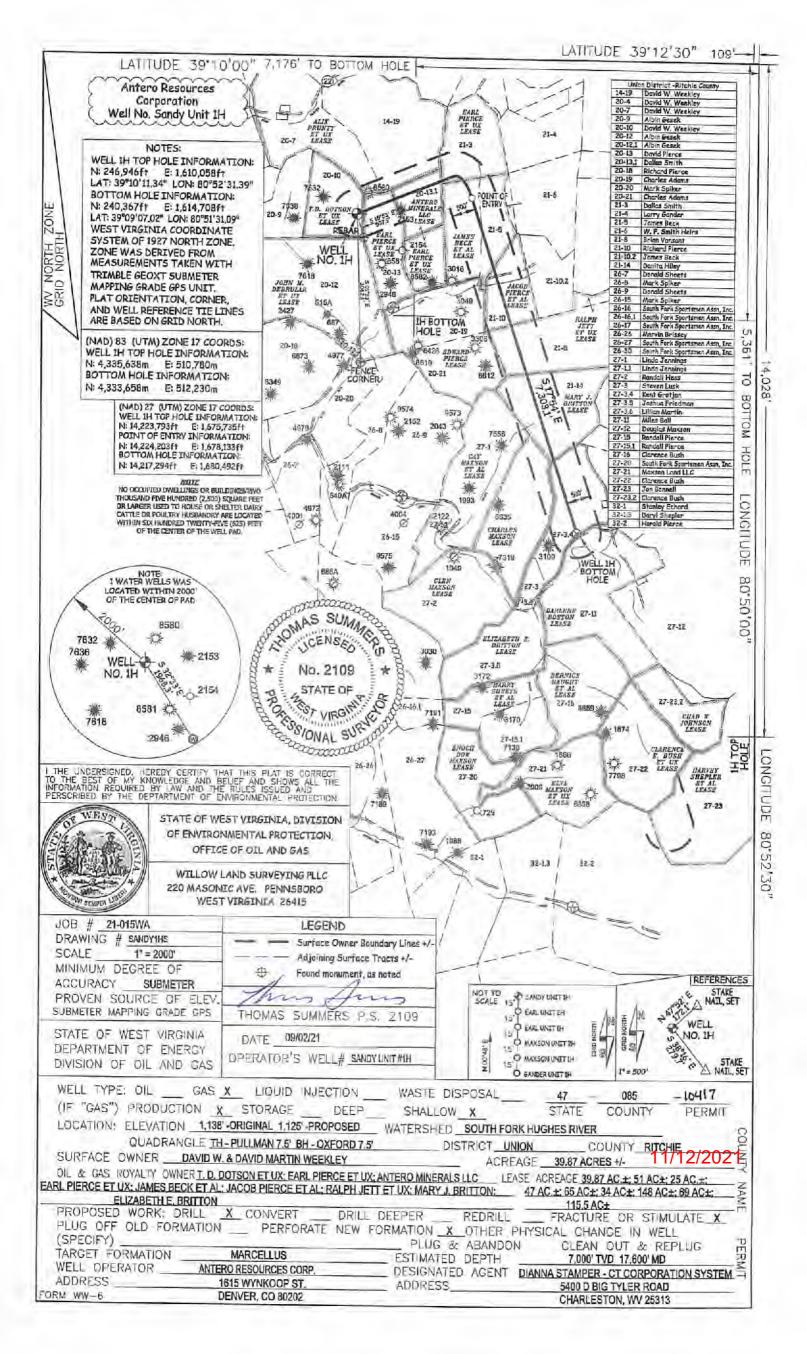
Alternate Route:

From Auburn: Head west onto Auburn Road/Main Street for 30 ft. Turn right onto Toll Gate Road for 0.3 miles. Continue onto Left Fork Bone Creek for 1.0 mile. Slight left onto CO Rd 7/13 for 1.7 miles. Continue straight onto Summer Road Brushy Fork for 1.7 miles. Continue straight onto CO Rd 22/3 for 3.8 miles. Lease road will be on your right.

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

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ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OPERATOR'S WELL# SANDY UNIT#1H DIVISION OF OIL AND GAS WELL TYPE: OIL GAS X (IF "GAS") PRODUCTION X STORAGE LOCATION: ELEVATION 1,138'-ORIGINAL 1,125'-PROPOSED QUADRANGLE TH-PULLMAN 7.5' BH-OXFORD 7.5' SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY OIL & GAS ROYALTY OWNER T. D. DOTSON ET UX; EARL PIERCE ET UX; ANTERO MINERALS LLC LEASE ACREAGE 39.87 AC.±: 51 AC±: 25 AC.± EARL PIERCE ET UX: JAMES BECK ET AL: JACOB PIERCE ET AL: RALPH JETT ET UX: MARY J, BRITTON: 47 AC.±: 65 AC±: 34 AC±: 148 AC±: 69 AC± ELIZABETH E. BRITTON 115.5 AC± FRACTURE OR STIMULATE X PROPOSED WORK: DRILL X_ CONVERT DRILL DEEPER REDRILL PLUG OFF OLD FORMATION _ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) CLEAN OUT & REPLUG 7,000' TVD 17,600' MD PLUG & ABANDON TARGET FORMATION MARCELLUS ESTIMATED DEPTH WELL OPERATOR _ ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313 ADDRESS _ 1615 WYNKOOP ST. DENVER, CO 80202 FORM WW-6

Antero Resources Corporation Well No. Sandy Unit 1H

NOTES:

BOTTOM HOLE INFORMATION:

TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT.

N: 4,333,658m E: 512,230m

NOTE: I WATER WELLS WAS LOCATED WITHIN 2000' OF THE CENTER OF PAD

益

8581

2946

7632 7636

7618

JOB #

SCALE

21-015WA

1" = 2000"

DRAWING # SANDYTHS

MINIMUM DEGREE OF

WELL.

NO. 1H

8580

2153

(8.2 × 2154

PLAT CRIENTATION, CORNER

NORTH

OKID N

Sandy Unit 1H

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
T.D. Dotson, et ux Lease			
T.D. Dotson, et ux	J.T. Carter	1/8	0011/0297
J.T. Carter	The Carter Oil Company	Assignment	0011/0528
The Carter Oil Company	Hope Construction and Refining Company	Assignment	0052/0194
Hope Construction and Refining Company	Hope Natural Gas Company	Merger	0111/0520
Hope Natural Gas Company	Consolidation Gas Supply Corporation	Conveyance	0151/0436
Consolidation Gas Supply Corporation	Consolidation Gas Transmission Corporation	Assignment	0169/0756
Consolidation Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
CNG Development Company	CNG Producing Company	Name Change	wvsos
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.	Assignment	0251/0621
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC	Assignment	0251/0648
CONSOL Energy Holdings, LLC	Consol Gas Company	Merger	0006/0576
Consol Gas Company	CNX Gas Company, LLC	Merger	0006/0634
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0269/0429
Earl Pierce et ux Lease			
Earl Pierce and Florence R Pierce his wife	Harry Haddox and Harrold Haddox	1/8	0101/0341
Harry Haddox and Harrold Haddox	George L Yaste dba Oil State Sales Company	Assignment	0102/0261
George L Yaste dba Oil State Sales Company	D L Y Inc	Assignment	0112/0302
D L Y Inc	Betty Jean Stainaker & Rosalee Roberts dba R.&S. Gas Company	Assignment	0132/0565
Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company	R & S Gas Company, a partnership	Assignment	0147/0548
R & S Gas Company, a partnership	BET-RO Inc	Assignment	0147/0554
BET-RO Inc	Roberts Energy Corporation	Assignment	0240/0036
Roberts Energy Corporation	Antero Resources Corporation	Assignment	0329/0138
Antero Minerals LLC Lease		·	
Antero Minerals LLC	Antero Resources Corporation	1/8+	0328/0096
Earl Pierce et ux Lease			
Earl Pierce et ux	Harrold Haddox	1/8	0100/0205
Harrold Haddox	George L Yaste dba Oil State Sales Company	Assignment	0100/0510
George L Yaste dba Oil State Sales Company	D.L.Y. Inc	Assignment	0112/0302
D.L.Y. Inc	Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company	Assignment	0132/0565
Betty Jean Stainaker & Rosalee Roberts dba R.&S. Gas Company	BET-RO Inc	Assignment	0147/0554
BET-RO Inc	Roberts Energy Corporation	Assignment	0240/0036
Roberts Energy Corporation	Antero Resources Corporation	Assignment	0302/0741

Operator's Well Number Sai	ındy Unit	HI
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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:

James Beck, et al George L Yaste dba Oil State Sales Company 1/8 0100/0516 George L Yaste dba Oil State Sales Company D.L.Y. Inc Assignment 0112/0302 D.L.Y. Inc Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company Assignment 0132/0565 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0548 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0554 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0555 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0554 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0554 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0554 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0554 Gas Company R & S Gas R &	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
James Beck, et al George L Yaste dba Oil State Sales Company 1/8 0100/0516 George L Yaste dba Oil State Sales Company D.L.Y. Inc Assignment 0112/0302 D.L.Y. Inc Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company Assignment 0147/0548 Gas Company R & S Gas Company BET-RO Inc Assignment 0147/0554 Gas Company, a partnership BET-RO Inc Assignment 0147/0555 Gas Company, a partnership BET-RO Inc Assignment 0147/0554 Gas Company, a partnership BET-RO Inc Assignment 0147/0554 Gas Company, a partnership BET-RO Inc Assignment 0147/0555 Gas Company, a partnership BET-RO Inc Assignment 0147/0554 Gas Company, a partnership BET-RO Inc Roberts Energy Corporation Assignment 0147/0554 Gas Company, a partnership BET-RO Inc Gas Company Gas Gas Gas Company Gas				
George L Yaste dao Oil State Sales Company D.L.Y. Inc Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company Betty Jean Stalnaker & Rosalee Roberts dba R.&S. R & S Gas Company BET-RO Inc R & S Gas Company BET-RO Inc Roberts Energy Corporation Antero Resources Corporation Antero Resources Appalachian Corporation Anter	James Beck, et al Lease			
D.L.Y. Inc Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company Betty Jean Stalnaker & Rosalee Roberts dba R.&S. R & Gas Company Betty Jean Stalnaker & Rosalee Roberts dba R.&S. R & Gas Company R & Gas Company BET-RO Inc Roberts Energy Corporation Antero Resources Corporation Antero Resources Appalachian Corporation Assignment Assi	James Beck, et al	George L Yaste dba Oil State Sales Company	1/8	0100/0516
Gas Company R & S Gas Company R & S Gas Company, a partnership R & S Gas Company R & S Gas Company, a partnership R & S Gas Company R & S Gas Company, a partnership R & S Gas Company R & S Gas Company, a partnership R & S Gas Company R & S Gas Company, a partnership R & S Gas Company R & S Gas Company, a partnership R & S Gas Company R & S Gas Company R & S Gas Company, a partnership R & S Signment R & S Gas Company R & S Gas Company, a partnership R & S Signment R & S Gas Company R & S Signment R & S Gas Company R & S Signment R & S Gas Company R & S Signment R & S Gas Company R & S Gas Company R & S Signment R & S Gas Company R & S Gas Company R & S Signment R & S Gas Company R & S Gas Company R & S Signment R & S Gas Company R & S Gas Company R & S Signment R & S Gas Company R & S Gas Company R & S Signment R & S Gas Company R & S Signment R & S Gas Company R & S Gas Company R & S Signment R S Gas Company R & S Signment R & S Gas Company R & S Signment R S G Gas Company R & S Gas Company	George L Yaste dba Oil State Sales Company	D.L.Y. Inc	Assignment	0112/0302
Gas Company R & S Gas Company, a partnership BET-RO Inc R Sobac Company, a partnership BET-RO Inc Roberts Energy Corporation Antero Resources Corporation Antero Resources Corporation Name Change 329/0138 Company	D.L.Y. Inc	•	Assignment	0132/0565
BET-RO Inc Roberts Energy Corporation Assignment 0240/0036 Roberts Energy Corporation Antero Resources Corporation Name Change 0329/0138 Jacob Pierce, et al Lease Jacob Pierce, et al Lease J/8 0105/0210 LE. Mossor Francis Friestad Assignment 0105/0353 Francis Friestad W.H. Thompson Assignment 0106/0020 W.H. Thompson Bet-Ro Assignment 0222/0426 Bet-Ro Key Oil Company Assignment 0226/0382 Key Oil Company Antero Resources Appalachian Corporation Assignment 0255/0547 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0255/0547 Ralph Jett, et ux W. R. Development Co. Inc 1/8 0191/0378 W. R. Development Co. Inc Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702	Betty Jean Stalnaker & Rosalee Roberts dba R.&S. Gas Company	R & S Gas Company, a partnership	Assignment	0147/0548
Roberts Energy Corporation Antero Resources Corporation Name Change 0329/0138 Jacob Pierce, et al Lease LE. Mossor Francis Friestad Assignment 0105/0353 Francis Friestad W.H. Thompson Assignment 0226/0328 Ret-Ro Assignment 0222/0426 Bet-Ro Assignment 0222/0426 Bet-Ro Assignment 0226/0382 Key Oil Company Assignment 0255/0547 Antero Resources Appalachian Corporation Name Change 0015/0702 Relph Jett, et ux Ralph Jett, et ux W. R. Development Co. Inc Whittle Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor 1/8 088/0331 W.H. Mossor J.B. J. Enterprises Assignment 0132/0004 Bill Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Assignment 0172/0336 Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	R & S Gas Company, a partnership	BET-RO Inc	Assignment	0147/0554
Jacob Pierce, et al Lease Jacob Pierce, et al Lease Jacob Pierce, et al LE. Mossor 1/8 0105/0210 LE. Mossor Francis Friestad Assignment 0105/0353 Francis Friestad W.H. Thompson Assignment 0106/0020 W.H. Thompson Bet-Ro Assignment 0222/0426 Bet-Ro Key Oil Company Assignment 0226/0382 Key Oil Company Antero Resources Appalachian Corporation Assignment 0255/0547 Antero Resources Appalachian Corporation Antero Resources Corporation Name Change 0015/0702 Ralph Jett, et ux Ralph Jett, et ux W. R. Development Co. Inc 1/8 0191/0378 W. R. Development Co. Inc Whittle Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor J.B. J. Enterprises Assignment 0133/0004 J.B. Interprises Term Energy Corporation Assignment 0133/0004 J.B. Enterprises Assignment 0132/0336 Term Energy Corporation Assignment 0263/0827 Kiedaisch & Summers Enterprises Assignment 0329/0315	BET-RO Inc	Roberts Energy Corporation	Assignment	0240/0036
LE. Mossor 1/8 0105/0210 LE. Mossor Francis Friestad Assignment 0105/0353 Francis Friestad W.H. Thompson Assignment 0106/0020 W.H. Thompson Bet-Ro Assignment 0222/0426 Bet-RO Key Oil Company Assignment 0222/0426 Key Oil Company Antero Resources Appalachian Corporation Assignment 0255/0547 Antero Resources Appalachian Corporation Antero Resources Corporation Name Change 0015/0702 Ralph Jett, et ux Ralph Jett, et ux W. R. Development Co. Inc 1/8 0191/0378 W. R. Development Co. Inc Whittle Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor J.B. Enterprises Assignment 0172/0336 W.H. Mossor J.B. Enterprises Assignment 0172/0336 Term Energy Corporation Assignment 0263/0827 Kiedaisch & Summers Enterprises Assignment 0329/0315	Roberts Energy Corporation	Antero Resources Corporation	Name Change	0329/0138
LE. Mossor Francis Friestad Assignment 0105/0353 Francis Friestad W.H. Thompson Assignment 0106/0020 W.H. Thompson Bet-Ro Assignment 0222/0426 Bet-Ro Key Oil Company Assignment 0226/0382 Key Oil Company Antero Resources Appalachian Corporation Assignment 0255/0547 Antero Resources Appalachian Corporation Antero Resources Corporation Name Change 0015/0702 Ralph Jett, et ux Ralph Jett, et ux W. R. Development Co. Inc 1/8 0191/0378 W. R. Development Co. Inc Whittle Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton Lease Mary J. Britton Lease Term Energy Corporation Assignment 0133/0004 J&J Enterprises Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Jacob Pierce, et al Lease			
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Bet-Ro Key Oil Company Assignment 0226/0382 Key Oil Company Antero Resources Appalachian Corporation Assignment 0255/0547 Antero Resources Appalachian Corporation Antero Resources Corporation Name Change 0015/0702 Ralph Jett, et ux Ralph Jett, et ux W. R. Development Co. Inc 1/8 0191/0378 W. R. Development Co. Inc Whittle Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor 1/8 0088/0331 W.H. Mossor J& Ifston 1/8 0088/0331 W.H. Mossor J& Ifston 1/8 0088/0331 W.H. Mossor J& Interprises Assignment 0133/0004 J&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Francis Friestad	W.H. Thompson	Assignment	0106/0020
Key Oil Company Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Assignment 0088/0331 W.H. Mossor J&J Enterprises Assignment 0133/0004 J&J Enterprises Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	W.H. Thompson	Bet-Ro	Assignment	0222/0426
Antero Resources Appalachian Corporation Antero Resources Corporation Name Change 0015/0702 Ralph Jett, et ux Ralph Jett, et ux W. R. Development Co. Inc 1/8 0191/0378 W. R. Development Co. Inc Whittle Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor 1/8 0088/0331 W.H. Mossor J&J Enterprises Assignment 0133/0004 I&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Bet-Ro	Key Oil Company	Assignment	0226/0382
Ralph Jett, et ux Ralph Jett, et ux W. R. Development Co. Inc Whittle Corporation Assignment O254/0910 Whittle Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Mary J. Britton Lease Mary J. Britton W. H. Mossor J&J Enterprises J&J Enterprises Term Energy Corporation Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment O088/0331	Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0255/0547
Raiph Jett, et ux W. R. Development Co. Inc Whittle Corporation Whittle Corporation Whittle Corporation Whittle Corporation Whittle Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Assignment O015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor J&J Enterprises Assignment U1/8 O088/0331 W.H. Mossor J&J Enterprises Assignment O133/0004 J&J Enterprises Term Energy Corporation Assignment O172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment O263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment O329/0315	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0015/0702
W. R. Development Co. Inc Whittle Corporation Assignment 0254/0910 Whittle Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor J&J Enterprises Assignment 0133/0004 J&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Ralph Jett, et ux			
Whittle Corporation Antero Resources Appalachian Corporation Assignment 0255/0526 Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease Mary J. Britton W.H. Mossor 1/8 0088/0331 W.H. Mossor J&J Enterprises Assignment 0133/0004 J&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Ralph Jett, et ux	W. R. Development Co. Inc	1/8	0191/0378
Antero Resources Appalachian Corporation Antero Resources Corporation Assignment 0015/0702 Mary J. Britton Lease	W. R. Development Co. Inc	Whittle Corporation	Assignment	0254/0910
Mary J. Britton Lease Mary J. Britton Mary J. Britton W.H. Mossor J&J Enterprises Nasignment O133/0004 J&J Enterprises Term Energy Corporation Term Energy Corporation Kiedaisch & Summers Enterprises Assignment O263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment O329/0315	Whittle Corporation	Antero Resources Appalachian Corporation	Assignment	0255/0526
Mary J. Britton W.H. Mossor 1/8 0088/0331 W.H. Mossor J&J Enterprises Assignment 0133/0004 J&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	0015/0702
W.H. Mossor J&J Enterprises Assignment 0133/0004 J&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Mary J. Britton Lease			
W.H. Mossor J&J Enterprises Assignment 0133/0004 J&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Assignment 0329/0315	Mary J. Britton	W.H. Mossor	1/8	0088/0331
J&J Enterprises Term Energy Corporation Assignment 0172/0336 Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	W.H. Mossor	J&J Enterprises	•	· ·
Term Energy Corporation Kiedaisch & Summers Enterprises Assignment 0263/0827 Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	J&J Enterprises	Term Energy Corporation	<u> </u>	•
Kiedaisch & Summers Enterprises Antero Resources Appalachian Corporation Assignment 0329/0315	Term Energy Corporation	Kiedaisch & Summers Enterprises	•	•
Amazon Barraria de la 18 de la	Kiedaisch & Summers Enterprises	Antero Resources Appalachian Corporation	<u>-</u>	<u>=</u>
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	•

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Elizabeth E Britton				
	Elizabeth E Britton	Pittsburgh & West Virginia Gas Co	1/8	0051/0501
	Pittsburgh & West Virginia Gas Co	Equitable Gas Company	Assignment	0126/0473
	Equitable Gas Company	Equitrans, Inc	Assignment	0201/0253
	Equitrans, Inc	Equitable Production - Eastern State, Inc.	Assignment	0234/0830
	Equitable Production - Eastern State, Inc	Equitable Production Company	Assignment	WVSOS
	Equitable Production Company	EQT Production Company	Assignment	0006/0443
	EQT Production Company	Antero Resources Corporation	Assignment	0282/0175

^{*}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:	Tim Rady	(m. Volla		
Its:	VP of Land			



Antero Resources 1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7310 Fax: 303.357.7315

October 1, 2021

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

RE: Sandy Unit 1H

Quadrangle: Pullman 7.5'/Oxford 7.5'

Ritchie County/Union District, West Virginia

Mr. Martin:

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

Sincerely,

Tyler Skavdahl

Landman

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

Operator's Well No. Sandy Unit 1H Well Pad Name: Weekley West 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 Form below for the tract of land as follows: State: West Virginia County: Ritchle District: Union Public Road Access: CO 22/3 Quadrangle: Pullman 7.5'/Oxford 7.5' Generally used farm name: David Martin Weekley & David W. West Watershed: Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the weekley was particular to the provisions in West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as in the weekley was particular to the provisi
Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Form below for the tract of land as follows: State: West Virginia County: Ritchle District: Union Quadrangle: Pullman 7.5'/Oxford 7.5' Watershed: Operator has provided the required parties with the Notice Form below for the tract of land as follows: UTM NAD 83 Easting: Northing: 4,355,638m CO 22/3 County: Generally used farm name: David Martin Weekley & David W. Westershed: Operator has provided the required parties with the Notice Form below for the tract of land as follows:
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Form below for the tract of land as follows: State: West Virginia County: Ritchle District: Union Quadrangle: Pullman 7.5'/Oxford 7.5' Watershed: South Fork Hughes River Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Form below for the tract of land as follows: UTM NAD 83 Easting: Northing: 4,355,638m CO 22/3 Co 22/3 Generally used farm name: David Martin Weekley & David W. Westershed:
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State: West Virginia County: Ritchle District: Union Quadrangle: Pullman 7.5'/Oxford 7.5' Watershed: South Fork Hughes River UTM NAD 83 Easting: Northing: 4,355,638m CO 22/3 Generally used farm name: David Martin Weekley & David W. Westershed: David Martin Weekley & David Martin Weekley & David W. Westershed: David Martin Weekley & David Martin Weekley & David W. Westershed: David Martin Weekley & David Martin Weekley & David W. Westershed: David Martin Weekley & David Marti
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District: Union Public Road Access: CO 22/3 Quadrangle: Pullman 7.5'/Oxford 7.5' Generally used farm name: David Martin Weekley & David W. Weekley & David W. Weekley & David W. Weekley & David Martin Weekley & David W. Weekley & David W. Weekley & David Martin Weekley & David W. Weekley & David W. Weekley & David Martin Weekley & David W. Weekley & David Martin Weekley & David Martin Weekley & David Martin Weekley & David W. We
Quadrangle: Pullman 7.5'/Oxford 7.5' Watershed: Generally used farm name: David Martin Weekley & David W. Weekley & David Martin Weekley & David W. Weekley & David W. Weekley & David Martin Weekley & David W. Weekley & David W. Weekley & David Martin Weekley & David W. Weekley &
Watershed: South Fork Hughes River
prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of sec 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 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 □ RECEIVED
■ 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
■ 5. PUBLIC NOTICE □ RECEIVED
■ 6. NOTICE OF APPLICATION □ RECEIVED

Required Attachments:

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

WW-6AC (1/12)

By:

Its:

Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I 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

Diana Hoff

Diana O. Sr. VP of Operations

Telephone: 304-842-4153 Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mhamsher@anteroresources.com

DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 5 hday of October.

My Commission Expires

Notary Public

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.

WW-6A (9-13) API NO. 47- 085 - 10417

OPERATOR WELL NO. Sandy Unit 1H

Well Pad Name: Weekley West Pad

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

Notice Time Requirement: notice shall be provided no later than the filling date of permit application. Date of Notice: 10/04/2021 Date Permit Application Filed: Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY 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 MAIT. RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: FI SURFACE OWNER(s) COAL OWNER OR LESSEE Name: David Martin Weekley & David W. Weekley Name: No Declarations on Record with County Address: 987 Middle Island Creek Road Address: St. Marys, WV 26170 Name: David Pierce COAL OPERATOR Address: 715 Pleasant Hollow Road Name: No Declarations on Record with County West Union, WV 26456 Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attachment SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: Elmer W. Pierce Address: Rt 1, Box 118 West Union, WV 26456 Address: ___ ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

API NO. 47- 085 - 10417
OPERATOR WELL NO. Sandy Unit 1H
Well Pad Name: Waskley West 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.env/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

API NO. 47-085 - 10417 OPERATOR WELL NO. Sandy Unit 1H

Well Pad Name: Weekley West 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 qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47-085 - 10417
OPERATOR WELL NO. Sandy Unit 1H
Well Pad Name: Weekley West 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.wy.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A (8-13) API NO. 47- 085 - 10417
OPERATOR WELL NO. Sandy Unit 1H
Well Pad Name: Weekley West Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: 304-842-4153 Diana O. Hofg Email: mhamsher@anteroresources.com

7

Address: 1615 Wynkoop Street
Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

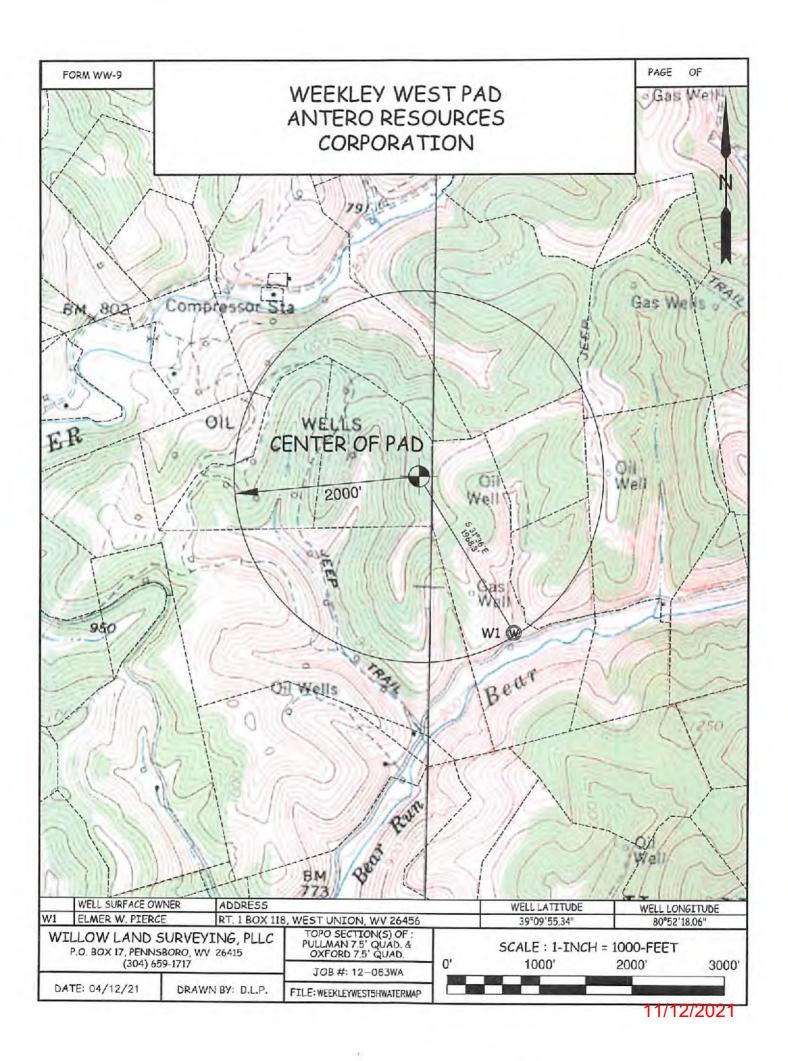
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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.

DIANE BLAIR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 19994011871
MY COMMISSION EXPIRES 27-Apr-2024

Subscribed and sworn before me this 5 H day of Oct 2021

ione Plain Notary Public

My Commission Expires 27 Apr 2024



WW-6A ATTACHMENT - SANDY UNIT 1H

SURFACE OWNER(S) (ROAD AND OTHER DISTURBANCES):

Antero Resources Corporation 1615 Wynkoop Street Denver, CO 80202

David Martin Weekley & David W. Weekley 987 Middle Island Creek Road St. Marys, WV 26170

Carol A. Myers and Albin A Gesek 441 Pleasant Hollow Road West Union, WV 26456 WW-6A3 (1/12)

Operator Well No.	
Multiple Wells on the Weekley West Pad	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Date of Notic	e: 11/24/2015	Date of Plan	ned E	ntry: *12/1/2015		hat this is an estimated date.
	VIII .				more than fort	ry-five (45) after your receipt of this ever comes first).
Denvery met	nod pursuant t	o West Virginia Co	de 9 2	2-0A-10a	The state of the s	2.1.000
PERSON	VAL.	REGISTERED		METHOD OF DEI	IVERY THAT RE	FOLURES A
SERVIC		MAIL		RECEIPT OR SIGN		
SERVIC	L	WAIL		KECEIF I OK SIG	NATURE CONFID	AVIATION
on to the surfiction to the surfiction more the beneath such owner of mind and Sediment Secretary, who	nce tract to cond man forty-five data tract that has file erals underlying Control Manua ich statement sh	luct any plat surveys ays prior to such entred ed a declaration purs such tract in the could and the statutes and	requir ry to; (mant to mty ta: d rules nforma	ed pursuant to this a 1) The surface owner o section thirty-six, a or records. The notice related to oil and ga tion, including the a	rticle. Such notice r of such tract; (2) rticle six, chapter t e shall include a st s exploration and p	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosic production may be obtained from the age on the Secretary's web site, to
	eby provided to);		<u>_</u>		
	E OWNER(s)				L OWNER OR LE	
	SEE ATTACHMENT				DECLARATIONS ON RE	
Address:				Address;		
Name:				E VA	C.TTOLINES	
					ERAL OWNER(s)	
Talasta						
				Address:		
1001007				*please attac	h additional forms if ne	ecessary
	eby given:	de § 22-6A-10(a), no	otice is	hereby given that th	e undersigned wel	l operator is planning entry to conduc
Pursuant to Windows plat survey of	est Virginia Co on the tract of la	nd as follows:				
ursuant to W plat survey of tate:	est Virginia Co	and as follows:			ude & Longitude:	Approx. 39.169759, -80.875204
Pursuant to W plat survey of state: County:	est Virginia Co on the tract of la West Virginia Ritchie	and as follows:		Public Road		
Pursuant to W plat survey of state: County: District:	est Virginia Co on the tract of la West Virginia Ritchie	and as follows:		Public Road A Watershed:	Access:	Approx. 39.169759, -80.875204
Pursuant to W plat survey of State: County: District:	est Virginia Co on the tract of la West Virginia Ritchie	and as follows:		Public Road	Access:	Approx. 39.169759, -80.875204 CR 22/3
plat survey of State: County: District: Quadrangle: Copies of the may be obtain Charleston, W	est Virginia Coon the tract of la West Virginia Ritchia Union Pullman 7.5' state Erosion an ed from the Sec V 25304 (304-	and as follows:	epartm of such	Public Road A Watershed: Generally use all and the statutes an ent of Environmenta documents or addit	Access: d farm name: d rules related to o l Protection headq ional information r	Approx. 39.169759, -80.875204 CR 22/3 South Fork Hughes River
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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 depprivacyofficer@wv.gov.

WW-6A3 Notice of Entry For Plat Survey Attachment:

Surface Owners:

Tax Parcel ID: 20-10

Owner: Address: David Martin & David W. Weekley 1143 Middle Island Creek Rd.

St. Mary's, WV 26170

Surface Owners:

Tax Parcel ID: 20-12

Owner:

Carol A. Myers & Albina A. Gesek

Address: 441 Pleasant Hollow Rd.

West Union, WV 26456

Owner:

Carol A. Myers & Albina A. Gesek

(2nd Address)

Address: RR 1 Box 122

West Union, WV 26456

Surface Owners:

Tax Parcel ID: 20-13

Owner: Address: Elmer Woodyard Pierce 1634 Pleasant Hollow Rd.

West Union, WV 26456

Owner:

Elmer Woodyard Pierce (2nd Address)

Address:

RR 1 Box 118

West Union, WV 26456

Mineral Owners:

Tax Parcel ID: 20-10

Owner: Address: David Martin & David W. Weekley 1143 Middle Island Creek Rd.

St. Mary's, WV 26170

Owner: Address:

Barbara Keating 60 Short Beach Rd.

East Haven, CT 06512

Owner: Betty D. Prunty Address: 208 Walnut St

208 Walnut St. Hamlin, WV 25523 **Mineral Owners:**

Tax Parcel ID: 10-12

Owner:

Mable Lenore Randolph

Address: Rt. 2 Box 289

Lost Creek, WV 26385

Owner: Address:

Roberta N. Finch 1604 27th St.

Parkersburg, WV 26101

Owner:
Address:

Lewis W. DeBrular Rt. 4 Box 454 Weston, WV 26452

Owner: Address:

Robert L. DeBrular 862 Cherokee Trail Willoughby, OH 44094

Owner: Address:

Don D. DeBrular 5306 Pamela Circle Charleston, WV 25313

Owner: Address: Eileen Myra Barker

PO Box 13

Pennsboro, WV 26415

Owner: Address:

Irene Teresa Cunningham 363 Cunningham Hl. Harrisville, WV 26362

Owner: Address:

James L. DeBrular 1601Washington Ave. Parkersburg, WV 26101

Owner:

Helene Y. Dodd

Address: 511 1st St.

Pennsboro, WV 26415

Owner: Address:

Key Oil Company 22 Garton Plaza Weston, WV 26452

Owner: Address:

Franklin L. Butler 22 Garton Plaza Weston, WV 26452

Mineral Owners:

Tax Parcel ID: 20-13

Owner: Alfred Andrew Smith (Subject to the

Life Estate of Leona May McVay)

Address: 1266 Kay Dr.

Mason, OH 45040

Owner: Daniel Lee Ashley, Jr. & Dawn

Michelle

Address: 7771 High Mill Ave NW

Canal Fulton, OH 44614

Owner: Dallas Franklin Smith

Address: RR 2 Box 72

Harrisville, WV 26362

Owner: Larry T. Hardman
Address: 1015 Buffaloville Rd.

Santa Claus, IN 47579

Owner: Jacob Andrew Pierce Address: 7281 E Dry Branch Rd.

Milltonw, IN 47145

Owner: Richard Fredrick Pierce

Address: RR 1 Box 123

West Union, WV 26456

Owner: Elmer Woodyard Pierce
Address: 1634 Pleasant Hollow Rd.

West Union, WV 26456

Owner: Elmer Woodyard Pierce (2nd Address)

Address: Rt. 1 Box 118

West Union, WV 26456

Owner: Lewis Frank Pierce

Address: 475 Burton Run Rd.

Pennsboro, WV 26415

Owner: James (Jim) A. Eliopulos

Address: PO Box 2407

Buckhannon, WV 26201

Owner: Jack H. & Linda M. Langford

Address: 1487 White Oak Rd.

Pullman, WV 26421

Owner: Rolley J. Wilson

Address: 353 Maryland Ave.

Clarksburg, WV 26301

WW-6A4 (1/12) Operator Well No. Weekley West Unit 5H Multiple Wells on Weekley West Pad

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

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

Notice Time I Date of Notic	Requirement: Notice shall b e: 04/02/2021	e provided at least TEN Date Permit Applic			permit application.
Delivery metl	hod pursuant to West Virgi	nia Code § 22-6A-16(b	o)		
—	■ onemens	i izan			
☐ HAND	CERTIFIED				
DELIVE	RY RETURN R	ECEIPT REQUESTED			
receipt reques drilling a hori of this subsect subsection ma and if availabl	ted or hand delivery, give the zontal well: <i>Provided</i> , That tion as of the date the notice by be waived in writing by the facsimile number and electrical states.	e surface owner notice of notice given pursuant to was provided to the surf e surface owner. The no tronic mail address of th	of its intent to o subsection face owner: otice, if requ he operator a	o enter upon t (a), section to Provided, how ired, shall inc	, an operator shall, by certified mail return the 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, or's authorized representative.
	reby provided to the SUF M. Weekley and David W. Weekley	FACE OWNER(S):		David Pierce	
	iddle Island Creek Road		OF _ACT. 100 ACT	715 Pleasant Hollow	Road
Tutil Coo.			Title Loo.		
Notice is her Pursuant to W the surface ow	est Virginia Code § 22-6A- vner's land for the purpose of		given that the	ct of land as fo	well operator has an intent to enter upon ollows:
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Oil and Gas Privacy Notice:

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WW-6A5 (1/12)

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

Delivery m	ethod pursuant to West Virginia Co	ode § 22-6A-16(c)		
	TIFIED MAIL	☐ HAND		
RET	JRN RECEIPT REQUESTED	DELIVERY		
return receithe planned required to drilling of a damages to (d) The not of notice.	of requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section a horizontal well; and (3) A proposed the surface affected by oil and gas op	e surface owner whose lan this subsection shall inclu- nation of this article to a sur- d surface use and compen- erations to the extent the di- given to the surface owner	d will be used for ide: (1) A copy face owner whose sation agreement 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
(at the addr-	ess listed in the records of the sheriff a	at the time of notice):	David Pierce	
		Nama:	David Pierce	
		Name:		Poor
Address: 98: St. Notice is he Pursuant to	Middle Island Creek Road Marys, WV 26170 Preby given: West Virginia Code § 22-6A-16(c), n	Addres	S: 715 Pleasant Hollow West Union, WV 26- he undersigned	well operator has developed a planned
Address: 983 St. Notice is he Pursuant to operation of State:	Middle Island Creek Road Marys, WV 26170 Preby given: West Virginia Code § 22-6A-16(c), n the surface owner's land for the pur West Virginia	Addres	S: 715 Pleasant Hollow West Union, WV 264 the undersigned all well on the tra	well operator has developed a planned act of land as follows:
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Notice is he Pursuant to operation of State: County: District;	Middle Island Creek Road Marys, WV 26170 Preby given: West Virginia Code § 22-6A-16(c), n In the surface owner's land for the pur West Virginia Ritchie Union	otice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road	west Union, WV 264 the undersigned all well on the tra Easting: Northing: Access:	well operator has developed a planned act of land as follows: 510,780m 4,335,638m CO 22/3
Address: 983 St. Notice is he Pursuant to operation of State: County:	Middle Island Creek Road Marys, WV 26170 Preby given: West Virginia Code § 22-6A-16(c), n In the surface owner's land for the pur West Virginia Ritchie Union	otice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road	west Union, WV 260 West Union, WV 260 the undersigned all well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 510,780m 4,335,638m
Notice is he Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provi- thorizontal vi- surface affe- information	Middle Island Creek Road Marys, WV 26170 Preby given: West Virginia Code § 22-6A-16(c), n In the surface owner's land for the pur West Virginia Ritchie Union Pullman 7.5/Oxford 7.5' South Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(c), ti led by W. Va. Code § 22-6A-10(b) rell; and (3) A proposed surface use a cted by oil and gas operations to the related to horizontal drilling may be s, located at 601 57th Street, SE,	Address otice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road Generally us his notice shall include: (1 to a surface owner whose and compensation agreeme extent the damages are compensation of the secret extent of the damages are compensation of the secret extent the secret compensation of the secret extent the secret compensation of the secret compensa	he undersigned all well on the tra Easting: Northing: Access: ed farm name:) A copy of this e land will be unterested and will be unterested and transport to the transport to	well operator has developed a planned act of land as follows: 510,780m 4,335,638m CO 22/3 David Martin Weekley & David W. Weekley code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional
Notice is he Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be province affect information headquarter gas/pages/d	Middle Island Creek Road Marys, WV 26170 Preby given: West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia Ritchie Union Pullman 7.5/Oxford 7.5' South Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(c), tilded by W. Va. Code § 22-6A-10(b) Well; and (3) A proposed surface use a cited by oil and gas operations to the related to horizontal drilling may be so, located at 601 57th Street, SE, efault.aspx.	Address otice is hereby given that it pose of drilling a horizonta UTM NAD to Public Road Generally us his notice shall include: (1 to a surface owner whose and compensation agreeme extent the damages are compensation agreement extent the damages ag	west Union, WV 264 the undersigned all well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing arompensable und tary, at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 510,780m 4,335,638m CO 22/3 David Martin Weekley & David W. Weekley code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Notice is he Pursuant to operation of State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provi- thorizontal vi- surface affe- information headquarter	Middle Island Creek Road Marys, WV 26170 Preby given: West Virginia Code § 22-6A-16(c), non the surface owner's land for the pur West Virginia Ritchie Union Pullman 7.5/Oxford 7.5' South Fork Hughes River Shall Include: West Virginia Code § 22-6A-16(c), tilded by W. Va. Code § 22-6A-10(b) Well; and (3) A proposed surface use a cited by oil and gas operations to the related to horizontal drilling may be so, located at 601 57th Street, SE, efault.aspx.	Address otice is hereby given that to pose of drilling a horizonta UTM NAD to Public Road Generally us his notice shall include: (1 to a surface owner whose and compensation agreeme extent the damages are compensation of the secret extent of the damages are compensation of the secret extent the secret compensation of the secret extent the secret compensation of the secret compensa	he undersigned all well on the tra Easting: Northing: Access: ed farm name:) A copy of this e land will be unterested and will be unterested and transport to the transport to	well operator has developed a planned act of land as follows: 510,780m 4,335,638m CO 22/3 David Martin Weekley & David W. Weekley code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection

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.

API NO. 47-085 - 10417
OPERATOR WELL NO. Sandy Unit 1H
Well Pad Name: Weekley West Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through ______, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows: State: West Virginia Easting: 510,780m UTM NAD 83 County: Ritchie Northing: 4,335,638m District: Union Public Road Access: CO 22/3 Quadrangle: Pullman 7.5 / Oxford 7.5 Generally used farm name: David Martin Weekley & David W. Weekley Watershed: South Fork Hughes River I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. *Please check the box that applies FOR EXECUTION BY A NATURAL PERSON ☐ SURFACE OWNER Signature:

Oil and Gas Privacy Notice:

☐ COAL OPERATOR

☐ WATER PURVEYOR

☐ SURFACE OWNER (Road and/or Other Disturbance)

□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

☐ SURFACE OWNER (Impoundments/Pits)

☐ COAL OWNER OR LESSEE

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.

Print Name:

Signature:

Company:_____ By:

Its:

Date:

FOR EXECUTION BY A CORPORATION, ETC.

WW-6A4W (1/12)

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

WAIVER

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 require	ments under West Virginia Code			d above and hereby waive the ollows:
State:	West Virginia	TELM MAD 02	Easting:	510,780m
County:	Ritchie	UTM NAD 83	Northing:	4,335,638m
District:	Union	Public Road Acc	cess:	CO 22/3
Quadrangle:	Pullman 7.5'/Oxford 7.5'	Generally used	farm name:	David Martin Weekley & David W. Weekley
Watershed:	South Fork Hughes River	_		
Name:		Signature:		
Address:				
		Date:		

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

D. Alan Reed, P.E. State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

September 22, 2021

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Weekly West Pad, Ritchie County Sandy Unit 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2016-0096 which has been issued to Antero Resources for access to the State Road for a well site located off Ritchie County Route 22/3 SLS MP 0.44.

This operator is in compliance with §22-6A-20 of the WV Code. 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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Davy K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Melissa Hamsher

Antero Resources CH, OM, D-3

File

List of Anticipated Additives Used for Fracturing or Stimulating Well

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

LOCATION CODRDINATES:
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CONTACTED PRIOR TO THE THAT OF COMMUNICATION AND THE PROJECT.

ENTRANCE PERMIT

ANTERO RESOURCES CONFORMION WILL DETAIN AN ENGRACIONENT PERMIT (FUNN MM-105) FROM THE WEST VIKURIA DEPARTMENT OF FRANSFORMATION DIVISION OF NICHTARS, PRIOR TO COMMENCENTRY OF CONSTRUCTION ACTIVITIES

ENVERSIONS ACCOUNTS:

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PROJECT CONTACTS
OPERATOR:
ANTERO RESOURCE CORPORATION
103 WHITE OACS HIND
HUBLISTER, AV 20230
PHONE (203) 642-4102
FAN; (204) 542-4102

ELI MAGONER - ENVIRONNENTAL ENCINEER A REGULLATORT MANAGEN OFFICE [DOA] BAR-ADSC CELL [COA] 476-8770

DIAMA HOFF - SER OFFICATIONS OFFICE (DES) 357-8804

AMON KINZLES - CONSTRUCTION STIPPONTSON COLL. (2004) BAE MINE

HOWERT MIRKS - CHEIGH MANAGER DETICE (004) 042-4400 CPLE (404) 022-7400

CHARLES E, COMPTON, III SURVEYING COORDINATION (204) 719-6140

APPROVED WVDEP QQG

10/28/2021

MAJO, HUTSON - LAND AGENT

CHILD S KUMP, PE - PROJECT MANAGEZ-ENGINESS CHITCH (886) 602-6106 FELL (840) 606-6747

READ L FARD - ENVIRONMENTAL SCIENTIST (806) 212-2500 CELL (804) 502-7477

GEOTECHNICAL PERRYLEARIA BOIL & ROCK INC CHRISTOPHEN W. BANGE — FRODERT ENGINEER (4/8) 573-4090 CELL (4/8) 589-8892

OFFICE (DAS) DATA-SPEC CREEK (DAS) 020-7400 (CHIL) 572-4000 EXALL (\$140 DRI-SPEC RESTRICTIONS NOTES:
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DESIGN CERTIFICATION: THE GRAINGS, CONSTRUCTION NOTE: AND REFERENCE BIMBRAMS STRAIGHT, HERSTO HAVE HERN PREPARED IN ACCORDANCE THE THE TEST TIRGINIA CODE BY STATE RULES DATESTED OF REFERENCESTAL PROTECTION, DEFECT OF CO., ASD GAS CHO 35-9

NOTE: ALL STREAM AND WETLAND IMPACTS WERE PERMITTED WITH THE GESEK WELL PAD PLAN.

Brysette Twop Arguetts

WEEKLEYWEST WE	WEEK EYWEST WETLAND INVACT (BOWARE FEET)		
Wetland and Impact Cause	FRICIFI	Total Sympact (SF)	Total Impact
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ASS_Website G3	347.	347	0.01

OPER TO BEAUE!

WEEKLEY WEST WELL PAD AND WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

UNION DISTRICT, RITCHIE COUNTY, WEST VIRGINIA WHITE OAK CREEK - SOUTH FORK HUGHES RIVER & MIDDLE FORK WATERSHEDS USGS 7.5 PULLMAN & OXFORD QUAD MAPS

PHOPOSED #

(1)

- PROPOSED SITE

WEST VIRGINIA COUNTY MAR

WATER

CONTARMENT PAD

WYDOH COUNTY ROAD MAP

STAND THE PERSONAL AS TRESSEAST FOR THE CONSTRUCTION OF MARIN AS A ST REPAIR

WEEKLEY WEST IN TERRETTENT STREAM RELACT ILMEAN FEET

HOW (LF) Struckman (LF) Commote (LF)

Fit (LF) Structures (LF) Controls (LF)

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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!!

MISS Utility of West Virginia 1-B00-245-4848

CONTROLLED AND EAR CONTROL NOTES

CONTROLLED AND EAR CONTROL NOTES

CONTROLLED AND EAR CONTROL

CONTROL COMMITTEES

CONTROL CO SH - HELD YAB DETTORMS

58 - THE YAB DESTRICTED RETAILS

50 - ACCESS MORE MICHAMATION PLAN

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SHEET INDEX
1 - COVER SHEET
2 - CONSTRUCTION AND EAR CONTROL ROTES

WYSIG TYNEST LAND LE DE	- TUHURUAN	THE MINES	
Total Gife		Monthlesi	Total
Access Road 'A" (9815)	25.29	9.00	25.2
Weet Pled	8,77	0.00	8.23
Witter Corps imment Ped	3.75	0.00	571
Excess/Topics Mawriel Stockples	20.57	0.75	213
Total Affected Area	57.67	0.74	69.8
Total Wooded Apres Disturbed	50,57	0.00	51.2
monote to Antero Frances	es Corp.	W 20-112	100
Access Road "A"	0.52	0.00	0.62
Firess/Topics Mesmal Stockpiles	041	0.00	D43
Total Affected Area	0.95	0.90	0.95
Total Whoded Acres Disturned	0.65	990	0,61
Impedia to Antero Reseuro	es Care.	M 20-11/1	1
Access Holed "A" [945]	372	0.00	3.72
Excess/Topsoil Material Stockpiles	200	0.00	2.09
Total Affected Area	6.61	0.90	0.01
1648 Wedded Acres Disturbed	5.37	000	537
Impacin to Covid W. Weekley & Day		CV Late The	ekiey T
Exemple/Topicos Marmolas Stockplas	0.00	0.00	0.00
Total Allested Aves	849	8.00	
Trest Wheeled Agree Disturbed	063		0.84
Imparts to Caro A Myers & A		0.00	DE
Aczesa Roed "A" (407)		TH 20	02
Facilita Topical Meterial Strategies	1.89	0.00	1.80
	2.53	0.00	2.53
Total Affective Area	4,42	0.06	447
Total Waster Acres Districted	2.02	0.00	7,82
Impetots to Carni A. Myera & A		Min 7 M 20	00.
Access Road "A" (1474")	4.04	0.00	4.04
Witter Continues Parl	384	D D0	3,54
Excess/Topical Material Stockpiles	5.54	0.00	1.54
Total Affected Area	14.02	0.00	1400
Fotal Winsdec Aures Drakrised	13.27	0.00	133
Implicits to David W., Mary Land, &	Device M. Y	Problem Th	NO-48
Access Fined "A" (438)	611	0.00	5.11
Water Screammert Paul	014	0.00	0.14
Excess/Topacif Meterial Standaries	424	0,76	5,00
Total Affected Area	9,49	E.76	15.2
form Wilcomo Agres Diskstood	0.65	0.63	7.45
	M. Weath	PY TH 29-0	
Access Road "A" (990)	3.15	0.00	3.15
Extens/Topistill Material Stockpilles	346	f. Dio	3 40
Total Affected Area	6.61	0.00	2.01
Total Waterier Gross Distanced	620	0.00	6.20
Impacts to David W. & David		T FR 20-1	
Access Road "A" (1530)	5.06	0.00	9.08
Wed Pad	6.14	0.00	6.54
Emma Topieco Material Sections.	1.32	0.00	1.57
Total Affected Ame	13.51	0.00	13.50
Total Westerd Argue Disparted	13.24	0.00	13.2
Imperts to Circur W. & Marga		0 31 20 E	
Ved Pml			
ExonswTopsoli Meterial Sicultaries	2.09	0.00	2.09
	0.30	0.00	0.30
Total Affected Area	2.33	0,00	2.39
Total Witsaled Acres Disserted	1.34	0.00	1.34

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PAD & WATER CONTAINMENT PA
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WITH COUNTY, WEST VIRGINIA PAD &



DATE 04/09/202 SCALE AS EBOWN SHEET I OF 20

