

west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Thursday, March 23, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION (A) 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for RAINES UNIT 1H 47-085-10311-00-00

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: RAINES UNIT 1H Farm Name: MARION R. BACHELOR, ET AL U.S. WELL NUMBER: 47-085-10311-00-00 Horizontal 6A / New Drill Date Issued: 3/23/2017

Promoting a healthy environment.

# PERMIT CONDITIONS 4700500

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

#### **CONDITIONS**

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water 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	N	umber:
-----	---	--------

# PERMIT CONDITIONS 47 0.0 5 1 0 0 1

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.

### 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

I, \_\_\_\_\_\_, 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:

required, and	the wen plat, an ior proposed wer	I work on the tract of failu as for	liows.		
State:	West Virginia	UTM NAD 83	Easting:	498696m	
County:	Ritchie	UTM NAD 83	Northing:	4351357m	
District:	Clay	Public Road Acc	cess:	CR 6/2	
Quadrangle:	Ellenboro 7.5'	Generally used f	Generally used farm name:		
Watershed:	North 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:
□ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:
□ SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.
COAL OWNER OR LESSEE	Company:
COAL OPERATOR	By: Received
□ WATER PURVEYOR	Office of Oil & Gas
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: JAN 1 7 2017

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

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

		11	2	
API NO. 47- 085	-	10	31	

OPERATOR WELL NO. Raines Unit 1H Well Pad Name: Bachelor Pad

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

	tor: Antero	Resources	Corpor		085 - Ritch	Clay	Ellenboro 7.5'
2) Operatoria 1	Vall Mart	Paince Li	ait 111	Operator ID	County	District	Quadrangle
2) Operator's V	well Numbe	r: Raines U	nit 1H	Well P	ad Name: Bac	helor Pad	/
3) Farm Name/	Surface Ow	ner: Marion I	R. Bache	or, et al Public Ro	ad Access: Cl	R 6/2	
4) Elevation, cu	urrent groun	d: 1193'	F	Elevation, proposed	1 post-construc	tion: 1193'	
5) Well Type	(a) Gas Other	x		Un			
	(b)If Gas	Shallow	Х	Deep			1 1 1
Sec. Sec.		Horizontal	X			1	richael 2011
<ol><li>Existing Pad:</li></ol>	: Yes or No	Yes	_		_		1/24/17
Marcellus Sh	ale: 6600' TV	D, Anticipate	d Thickn	cipated Thickness ess- 75 feet, Assoc	and Expected I iated Pressure-	Pressure(s): 2800#	
8) Proposed Tot							
9) Formation at	Total Vertic	cal Depth: N	Aarcellu	s			
10) Proposed To	otal Measure	d Depth: 1	7200' N	ID			
			7200' N 0093'	1D			
<ol> <li>Proposed To</li> <li>Proposed Ho</li> <li>Approximate</li> </ol>	orizontal Le	g Length: 1	0093'	ID 357', 429', 505'			
<ol> <li>Proposed Ho</li> <li>Approximate</li> </ol>	orizontal Le e Fresh Wat	g Length: 1	0093' oths:	357', 429', 505'	pths have been a	djusted accord	ng to surface elevation
<ol> <li>Proposed Ho</li> <li>Approximation</li> <li>Method to D</li> </ol>	orizontal Le e Fresh Wat Determine Fr	g Length: 1 er Strata Dep resh Water D	0093' oths: epths:	357', 429', 505' Offset well records. De	pths have been ad	djusted accordi	ng to surface elevation:
11) Proposed Ho	orizontal Le e Fresh Wat Determine Fr e Saltwater I	g Length: 1 ter Strata Dep resh Water D Depths: 104	0093' oths: epths:	357', 429', 505' Offset well records. De ', 1390'	pths have been ad	djusted accord	ng to surface elevation:
<ol> <li>Proposed Ho</li> <li>Approximate</li> <li>Method to D</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> </ol>	orizontal Le e Fresh Wat Determine Fr e Saltwater I e Coal Seam	g Length: 1 ter Strata Dep resh Water D Depths: 104 h Depths: 38	0093' oths: epths: l2', 1207 6', 1627	357', 429', 505' Offset well records. De ', 1390'			ng to surface elevations
<ol> <li>Proposed Ho</li> <li>Approximate</li> <li>Method to D</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> </ol>	orizontal Le e Fresh Wat Determine Fr e Saltwater I e Coal Seam e Depth to P sed well loca	g Length: 1 er Strata Dep resh Water D Depths: 104 n Depths: 38 cossible Void	0093' oths: epths: <u>1</u> 12', 1207 6', 1627 (coal mi coal seat	357', 429', 505' Offset well records. De '', 1390' '' ine, karst, other):	None Anticipa		ng to surface elevation:
<ol> <li>Proposed Ho</li> <li>Approximate</li> <li>Method to D</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> <li>Does Propos</li> </ol>	orizontal Le te Fresh Wat Determine Fr e Saltwater I e Coal Seam e Depth to P sed well loca og or adjacen	g Length: 1 er Strata Dep resh Water Do Depths: 104 n Depths: 38 cossible Void ation contain at to an active	0093' oths: epths: <u>1</u> 12', 1207 6', 1627 (coal mi coal seat	357', 429', 505' Offset well records. De ', 1390' '' ine, karst, other):	None Anticipa	ted	ng to surface elevation
<ol> <li>Proposed Ho</li> <li>Approximate</li> <li>Method to D</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> <li>Does Propos</li> <li>Directly overlying</li> </ol>	orizontal Le te Fresh Wat Determine Fr e Saltwater I e Coal Seam e Depth to P sed well loca og or adjacen	g Length: 1 er Strata Dep resh Water De Depths: 104 n Depths: 38 cossible Void ation contain at to an active fo: Name:	0093' oths: epths: <u>1</u> 12', 1207 6', 1627 (coal mi coal seat	357', 429', 505' Offset well records. De ', 1390' '' ine, karst, other):	None Anticipa	ted	ng to surface elevation:
<ol> <li>Proposed Ho</li> <li>Approximate</li> <li>Method to D</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> <li>Approximate</li> <li>Does Propos</li> <li>Directly overlying</li> </ol>	orizontal Le te Fresh Wat Determine Fr e Saltwater I e Coal Seam e Depth to P sed well loca og or adjacen	g Length: 1 er Strata Dep resh Water Do Depths: 104 n Depths: 38 cossible Void ation contain at to an active	0093' oths: epths: <u>1</u> 12', 1207 6', 1627 (coal mi coal seat	357', 429', 505' Offset well records. De ', 1390' '' ine, karst, other):	None Anticipa	ted	ng to surface elevation:

Page 1 of 3

03/24/2017

#### API NO. 47- 085

OPERATOR WELL NO, Raines Unit 1H Well Pad Name: Bachelor Pad

WW-6B (04/15)

### 18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	40'	40'	CTS, 38 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	54.5#/48# 560' *see #19 5		CTS, 778 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate	1.2.1		1				
Production	5-1/2"	New	P-110	20#	17200'	17200'	CTS, 4322 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners			1	122 - 21			a second second

		~	
100			
	2		

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	24"	0.438"	1530	50	Class A	
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Lead-H/POZ & Tall - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200		1	
Liners							

### PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

WW-6B (10/14)

API NO. 47- 085

OPERATOR WELL NO. Raines Unit 1H Well Pad Name: Bachelor Pad

124/1

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

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

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 31.03 acres

22) Area to be disturbed for well pad only, less access road (acres): 5.43 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

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

reduced casing, one centralizer at shoe joint and one every 5 joints to top of cement in intermediate casing

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

Conductor: no additives, Class A cement.

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

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

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

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

25) Proposed borehole conditioning procedures:

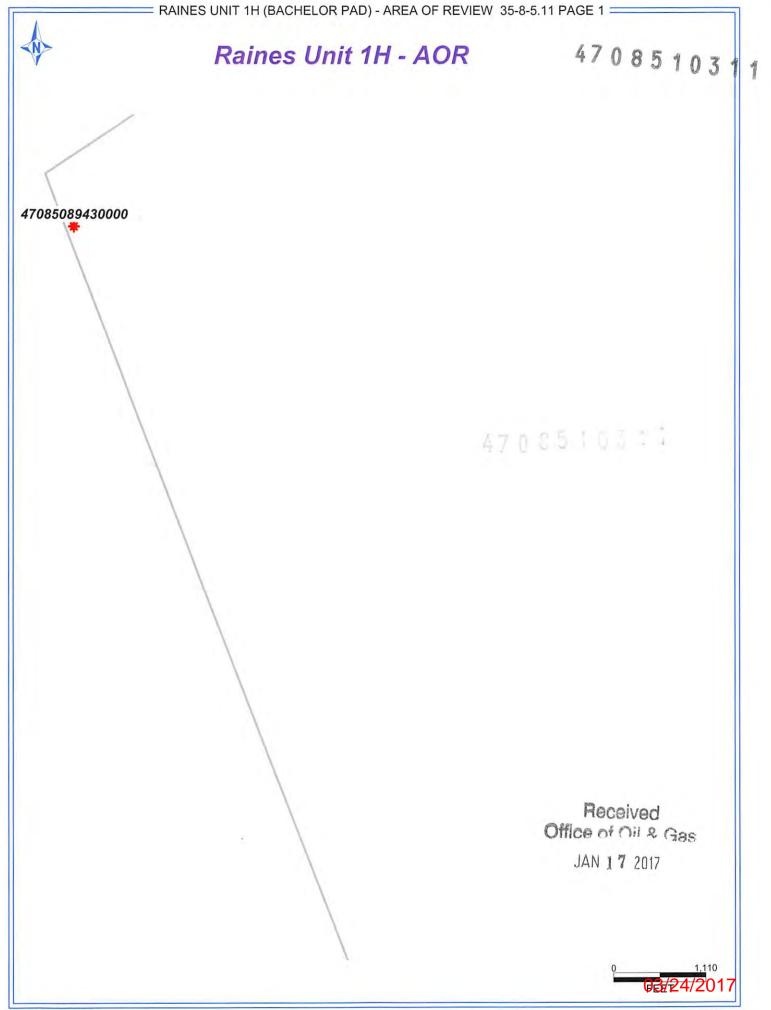
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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

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

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

\*Note: Attach additional sheets as needed.



### RAINES UNIT 1H (BACHELOR PAD) - AREA OF REVIEW 35-8-5.11 PAGE 2

					_						-
									Perforated Interval (shallowest,		1
UPAT (APDIum)	Well Name	Well Number	Operator	Hist Oper	ю	any	GR	TO (SSTVD)	deepest)	Perforated Formation(s)	Producible Formations not Perf'd
4703502943000	GENERL	1	KEY OIL COMPANY	KEY OL COMPANY	5020		1064	-395	4472-4475	Breson	Maxton, Mississippian, Squaw, Keener
	_										

-

47005:03:1

Received Office of OU & Gas JAN 17 2017

03/24/2017

(2/15)	API Number 47 - 085
	Operator's Well No, Raines Unit 1H
STATE O	F WEST VIRGINIA
DEPARTMENT OF EN	VIRONMENTAL PROTECTION
OFFICE	OF OIL AND GAS
FLUIDS/ CUTTINGS DIS	SPOSAL & RECLAMATION PLAN
Operator Name Antero Resources Corporation	OP Code _494507062
Watershed (HUC 10) North Fork Hughes River	Quadrangle _ Ellenboro 7.5'
Do you anticipate using more than 5,000 bbls of water to com Will a pit be used? Yes No	nplete the proposed well work? Yes No No
If so, please describe anticipated pit waste: No pit will be	e used at this site (Drilling and Flowback Fluids will be stored in tunks, Cutlings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	104/19
Land Application	110
Underground Injection (UIC Perm	nit Number_*UIC Permit # will be provided on Form WR-34 )
Reuse (at API Number Future permit	ted well locations when applicable. API# will be provided on Form WR-34 )
Off Site Disposal (Supply form W Other (Explain	W-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/ WV0109410
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizor	ntal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc. 1	N/A
Additives to be used in drilling medium? Please See Attachmen	nt
Drill cuttings disposal method? Leave in pit, landfill, removed	d offsite, etc. Stored In tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be	e used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Meadowtill Landfill (Permit #SWF-1032-98) & Northwestern Landfill (Permit #SWF-1025/WV0109410)

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action,

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature	Kan
Company Official (Typed Name) Cole Kiistrom	ST. NOTACKO
Company Official Title Environmental & Regulatory Manager	MY COMMISSION D 201 ORAC
Subscribed and sworn before me this 13 day of JANNANY	, 20_17Notary Public
My commission expires JUNY 21,2018	

### Antero Resources Corporation

Proposed Revegetation Treatment: Acres Disturbed 31.03 acres		Prevegetation pl	H
Lime 2-4	Tons/acre or to correct to pl	H 6.5	
Fertilizer type Hay or	straw or Wood Fiber (will be used	where needed)	
Fertilizer amount 500	)1	bs/acre	
Mulch 2-3	Tons	acre	
	acres) + Access Road "B" (1,19 acres) + We Stockpiles (1 POTATY	<u>Pad (5.43 acres) + Water Containment Pad (3.19 acres) = 31.03 Acres</u>	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Crownvetch	10-15
Field Bromegrass	40	Tall Fescue	30
See attached Table IV-3 for additional seed type (Bachelor Pad Design Page 26)		See attached Table IV-4A for additional seed	type (Bachelor Pad Design Page 26
or type of grass seed requ	ested by surface owner	*or type of grass seed reque	sted by surface owne

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

mments:	Seed	4 mulch	any	distorbed	areas.
				·	
Title: O:1	4 G	as Inspi	ector	Date: 1/2	24/17
ield Reviewed?		V)Yes		) No	

### Form WW-9 Additives Attachment

#### SURFACE INTERVAL

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

### **INTERMEDIATE INTERVAL**

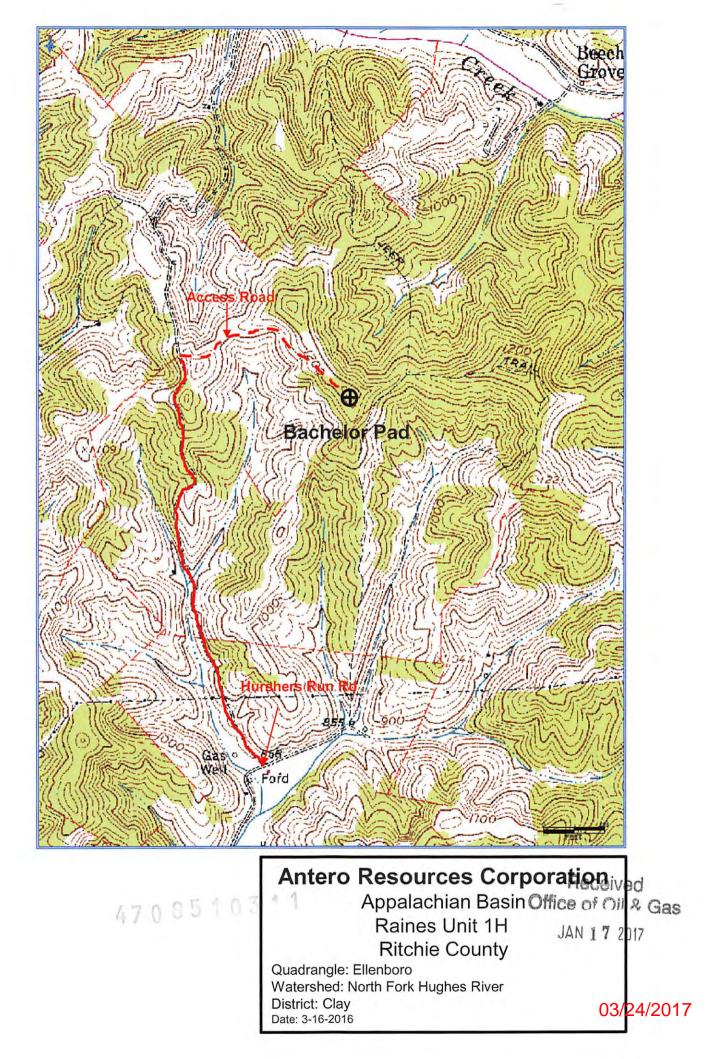
#### STIFF FOAM RECIPE:

- 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 Agen	t
8.	New Drill	
~	Anionic Polyacrylamide Copolymer Emulsion – Shale Stal	Dilizer
9.	Caustic Soda	
10	Sodium Hydroxide – Alkalinity Control	Received
10.	Mil-Lime	
11	Calcium Hydroxide – Lime LD-9	Unice reasons as
11.	Polyether Polyol – Drilling Fluid Defoamer	JAN 17 2017
12	Mil Mica	
12.	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	<b>○</b> ▶ <b>4</b>
Ground Cellulosic Material – Ground Walnut Shells – Lo	CIVI
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	Received
32. Mil-Lube	
Drilling Fluid Lubricant	Office of Oil & Gas
	JAN 17 2017





911 Address 1246 Pinewood Ln. Pennsboro, WV 26415

470851

# Well Site Safety Plan

# **Antero Resources**

### Well Name:

Raines Unit 1H, Raines Unit 2H, Raines Unit 3H, Anderson Unit 1H, Anderson Unit 2H, Anderson Michael & off Unit 3H

Pad Location: BACHELOR PAD **Ritchie County/Clay District** 

### **GPS** Coordinates:

Entrance - Lat 39°18'47.268"/Long -81°1'24.441" (NAD83) Pad Center - Lat 39°18'41.6952"/Long -81°0'54.3384" (NAD83)

# **Driving Directions:**

From the intersection of i79 and HWY 50: Travel west on US-50 for 41.3 miles. Turn right onto Bunnell run Rd, go 0.5 miles. Turn left onto Lamberton Rd/Old U.S. 50 E, go 2.2 miles. Turn right onto Hushers Run, go 1.2 miles. Turn left onto Hurshers Run Rd, go 1.2 miles, access road will be on your right.

## Alternate Route:

From the town of Pennsboro, head west on Collins Ave toward Depot St (.1mi). Turn left on Eagle Dr (433ft). Turn right on W. Myles Ace/Old U.S. 50E (3.1mi). Turn right onto Hushers Run Rd (.7mi). Turn Left to continue on Hushers Run Rd. Acess road will be on you right after about .7mi.

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



	MidstreamPertores La		WELL SITE SAFETY PLAN
Owner:	Health and Safety Director	Document ID:	HS-Well Site Safety Plan-C-V1.0
Revision No.:	V2.0	Date of last revision:	November 9, 2016
Revision Status:	Draft		

## **Approval Sheet**

The West Virginia Department of Environmental Protection Office of Oil and Gas has set forth minimum requirements for a Well Site Safety Plan which shall be submitted with each horizontal well application. A horizontal well shall be any well which meets the definition as provided for in Title 35, Series 8, Section 2.2 of the West Virginia Department of Environmental Protection Office of Oil and Gas.

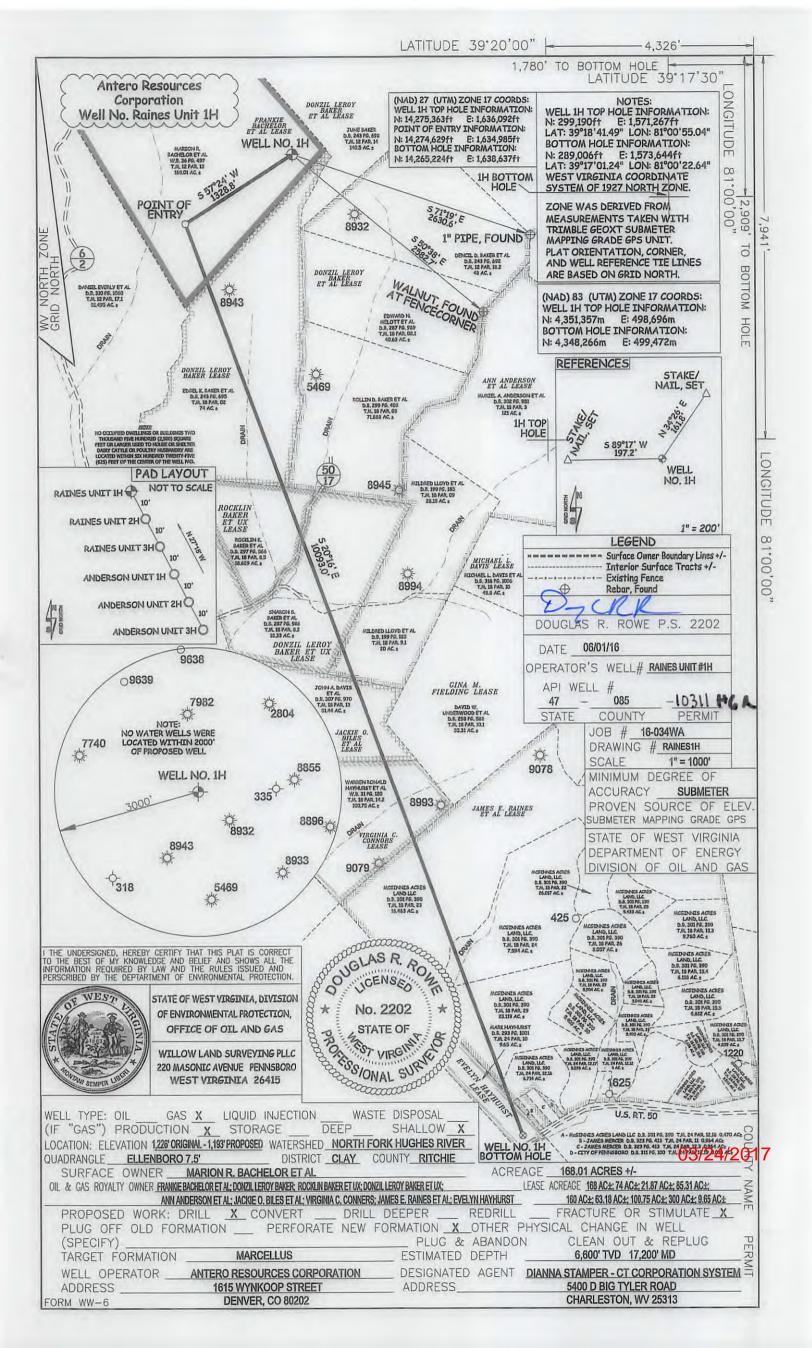
Approved Safety Plans should be maintained and available at the drilling rig at all times and provided to the local emergency planning committee for the emergency planning district in which the well work will occur or to the county office of emergency services at least seven days before commencement of well work or site preparation work that involves any disturbance of land.

The Safety Plan, once approved, may only be modified upon approval by the West Virginia Department of Environmental Protection Office of Oil and Gas ("Office").

This plan has met the requirements of the West Virginia Department of Environmental Protection Office of Oil and Gas Well Site Safety Plan Standards.

Approved this day	of month	, 20 by
	÷	
	Date:	





Operator's Well Number Raines 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
<u>Frankie Bachelor, et al Lease</u>			
Frankie Bachelor, et al	Consolidated Gas Supply Corporation	<b>1/8</b>	0123/0038
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0169/0756
Consolidated Gas Transmission Corporation	CNG Development Company	Assignment	0176/0601
CNG Development Company	CNG Producing Company	Merger Harrison Cou	nty 1131/1015
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change 🧳	Exhibit 2
Dominion Exploration & Production, Inc.	CNX Gas Company, LLC	Affidavit of Name Changes and Mergers	0253/0841
CNX Gas Company, LLC	Antero Resources Corporation	Assignment	0269/0429
Donzil Leroy Baker Lease (TM 18-2)			
Donzil Leroy Baker	Antero Resources Appalachian Corporation	1/8+	0261/0467
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Rocklin Baker, et ux Lease			
Rocklin Baker, et ux	Antero Resources Corporation	1/8+	0294/0208
Donzil Leroy Baker, et ux Lease (TM 18-8.2)			
Donzil Leroy Baker	Antero Resources Appalachian Corporation	1/8+	0261/0474
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Ann Anderson, et al Lease			
Ann Anderson, et al	Clarence Mutschelknaus	1/8	0232/0822 0259/0874
Clarence Mutschelknaus Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Name Change	Exhibit 1
Jackie O. Biles, et al Lease			
Jackie O. Biles, et al	Midwest Energy, Inc.	1/8	0233/0201
Midwest Energy, Inc.	Antero Resources Appalachian Corporation	Assignment	0264/0610
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Virginia C. Conners Lease		Received	
Virginia Conners	Clarence W. Mutscheiknaus	As Office of Oil & Gas	0232/0824
Clarence W. Mutschelknaus	Antero Resources Appalachian Corporation		
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change JAN <b>17</b> 2017	Exhibit 1
James E. Raines, et al Lease			
James E. Raines, et al	Antero Resources Corporation	1/8+	0287/0001

\*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.

\*\*CONTINUED ON NEXT PAGE\*\*

WW-6A1 (5/13)

#### 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, 1 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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
velyn Hayhurst Lease				10000
Evelyn Hayhu	ırst	Antero Resources Appalachian Corporation	1/8+	0260/0279
	urces Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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

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

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

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

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

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

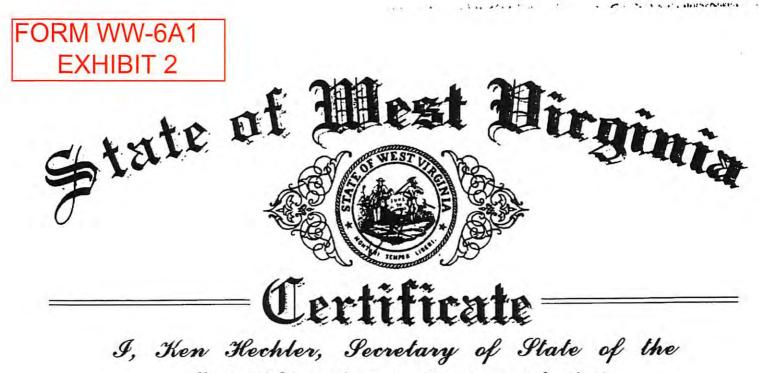
Page 1 of

Office of Oil & Gas

JAN 17 2017

03/24/2017

	FILED	
	JUN 1 0 2013	
Natallo E. Tennant. Scoretary of State	Penney Barker, Manager	
1900 Kanawha Bivd E	IN THE OFFICE OF Corporations Division SECRETARY OF STATE Tel: (304)558-8000 Participation (304)558-8000	
Bldg 1, Suite 157-K Charleston, WV 25305	Website: www.wvsos.con	1 .
	ATION FOR E-mail: business@wwsos.com	
	CERTIFICATE Office Hours: Monday - Friday 8:30 a.m 5:00 p.m. BT DTHORITY	
	at Virginia Code, the undersigned corporation hereby **** Authority and submits the following statement:	
1. Name under which the corporation was	1 m 1 m 1	
authorized to transact business in WV:	Antero Resources Appalachian Corporation	
2. Date Certificate of Authority was issued in West Virginia:	6/25/2008	
3. Corporate name has been changed to:	Antero Resources Corporation	
(Attach one Certified Conv of Name Change as filed in home State of incorporation.)	89	151
<ol> <li>Name the corporation elects to use in WV:</li> </ol>	Antero Resources Corporation	
due to home state name not being available)		
5. Other amendments: (attach additional pages if necessary)		
	······································	
	a. (This is optional, however, if there is a problem with number may avoid having to return or reject the	
Alvyn A. Schopp	(303) 357-7310	•
Contact Name	Phone Number	
7. Signature information (See below *Importat	nt Leval Notice Reporting Stanuture):	
Print Name of Signer: Abyn A. Schopp	Title/Capacity: Authorized Person	
A ASOMA	1	
Signature: 473710000	Date: June 10, 2013	Receiv
*Important Level Notice Repariting Signature: For West Via Any person value algas a document he or she knows is faise in to the secretary of state for filling is guilty of a misdomesner a thousand dollars or conflued in the county or regional jall not	irginia Code 5311)-1-129. Penalty for signing false documulti CA any material respect and knows that the document is to be delivered and, upon conviction thereaf, shall be fined not more than one	
Perm CF-4 listed by the O	Difico of the Secretary of Siste - Revised 4/15	5
a sum ca - a statue di tao o	And the stand of t	



State of West Virginia, hereby certify that

riginals of an application by

#### CNG PRODUCING COMPANY

for an amended certificate of authority to transact business in West Virginia are filed in my office, as required by the provisions of Chapter 31, Article 1, Sections 57 and 59 of the West Virginia Code and conform to law. Therefore, I issue this

### AMENDED CERTIFICATE OF AUTHORITY

to transact business in West Virginia under the name of

# 005103-91 **DOMINION EXPLORATION & PRODUCTION, INC.**

and I attach to this certificate a duplicate original of the application.



Given under my hand and the Great Seal of the State of Nest Virginia on Gas

May 10, 2000 7 2017

Tell

Secretary of State 03/24/2017



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

January 13, 2016

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

RE: Raines Unit 1H Quadrangle: Ellenboro 7.5' Ritchie County/Clay District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Raines 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 Raines Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tom Kuhn Senior Landman

> Received Office of Oil & Gas JAN 1 7 2017

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

Date of Notice Certification: 01/12/2017

API No. 47- 085 -Operator's Well No. Raines Unit 1H Well Pad Name: Bachelor Pad

Notice has been given:

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

State:	West Virginia	UTM NAD 83 Easting	: 498696m
County:	Ritchie	Northin	g: 4351357m
District:	Clay	Public Road Access:	CR 6/2
Quadrangle:	Ellenboro 7.5'	Generally used farm name	e: Marion R. Bachelor, et al
Watershed:	North Fork Hughes River		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	OOG OFFICE USE
*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	
□ 3. NOTICE OF INTENT TO DRILL OR INTERCENT IN OTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR	RECEIVED/ NOT REQUIRED
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	
<b>5.</b> PUBLIC NOTICE	
6. NOTICE OF APPLICATION	

#### **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 publication service, the return receipt card or other postal receipt for certified mailing.

Office of Oil & Gas

JAN 1 7 2017

03/24/2017

#### Certification of Notice is hereby given:

#### THEREFORE, I Kevin Kilstrom

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:         Antero Resources Corporation           By:         Kevin Kilstrom		Address:	1615 Wynkoop Street	
			Denver, CO 80202	
Its:	Senior VP of Production	Facsimile:	303-357-7315	
Telephone:	303-357-7310	Email:	kquackenbush@anteroresources.com	
	LBY MARIE JOHNSON NOTARY PUBLIC STATE OF COLORADO	cribed and swo Commission E:	prin before me this $12^{\text{m}}_{\text{day of } 100000000000000000000000000000000000$	

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

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

Received Office of Oil & Gas JAN 1 7 2017

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

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

Date of Notice: 1/13/2017 Date Permit Application Filed: 1/13/2017

Notice of	•
-----------	---

⊻	PERMIT FOR ANY	CERTIFICATE OF APPROVAL FOR THE
	WELL WORK	CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	<b>RECEIPT OR SIGNATURE CONFIRMATION</b>

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:

SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: PLEASE SEE ATTACHMENT	Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Address:	Address:	-
Name:	COAL OPERATOR	-
Address:	Name: NO DECLARATIONS ON RECORD WITH COUNTY	
	Address:	-
SURFACE OWNER(s) (Road and/or Other Disturbance)		-
Name: PLEASE SEE ATTACHMENT	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL	
Address:	SPRING OR OTHER WATER SUPPLY SOURCE	
	Name: NONE IDENTIFIED WITHIN 1500	
Name:	Address:	-
Address:		-
	OPERATOR OF ANY NATURAL GAS STOP	<b>AGE FIELD</b>
URFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Addross	
Address:		Received
	*Please attach additional forms if necess	of Oil & Gas

JAN 17 2017

### 03/24/2017

API NO. 47-085 -OPERATOR WELL NO. Raines Unit 1H Well Pad Name: Bachelor Pad

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements, (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if ganged shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

OPERATOR WELL NO. Raines Unit 1H Well Pad Name: Bachelor 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 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450

Received Office of Oil & Gas

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

WW-6A (8-13)

#### 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-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

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

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

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

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

Received Office of Oil & Gas

JAN 17 2017

03/24/2017

WW-6A (8-13)

API NO. 47-085 -OPERATOR WELL NO. Raines Unit 1H Well Pad Name: Bachelor Pad

#### Notice is hereby given by:

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

#### Address: 1615 Wynkoop Street Denver, CO 80202 Facsimile: 303-357-7315

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

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

3	SHELBY MAH	PUBLIC
5	STATE OF	COLORADO
3	NOTARYID	20164026060
	AV COMMISSION F	XPIRES JULY 8, 2020

Subscribed and sworn before me	this ]	3th day of Jan	2017
Shelpy Main	p		_Notary Public
My Commission Expires	7	8/2020	



Received Office of Oil & Gas JAN 1 7 2017

# **WW-6A Notice of Application Attachment (BACHELOR PAD):** List of Surface Owner(s) with Proposed Disturbance associated with Bachelor Well Pad:

Owner: Address:Marion Ray Bachelor 2375 192" Road Sabetha, KS 66534Address:151 Leisure Blvd. Pompano Beach, FL 33064Owner: Address:Margo Kiehl 31 Brook Ter Brockport, NY 1420Address:Donald Vincent Lococo Address:Owner: Address:Margo Kiehl 31 Brook Ter Brockport, NY 1420Address:Donald Vincent Lococo Newtown, CT 06470Owner: Address:Margo Kiehl 31 Brook Ter Brockport, NY 14420Owner: Address:Donald Vincent Lococo Newtown, CT 06470Owner: Address:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Rose Marie VanHeuveln Address:Owner: Address:John Michael Leonian Address:Owner: 40dress:Maria Sue Muzio 6201 Wilmington Way Flowerp Branch, GA 30542Owner: Address:Bailey Ann Mills Address:Owner: 40dress:Michel Leococo Bushmire Address:Owner: Address:Bailey Ann Mills Address:Owner: 15 Mountaineer Drive Williamstown, WV 263187Owner: Address:Elizabeth Florence Lococo Address:Owner: Address:Nilla Paul Haper Address:Address:301 Anthony Baker (Heir of Betty Baker) Address:Owner: Address:William Paul Haper Address:Owner: 43 Chester Street Front Royal, VA 22630Owner: Cowner: Address:John Anthony Baker (Heir of Betty Baker) Address:Owner: Address:Join David Joseph F. Sikel, h.7)Mark Sub Aldress:Owner: Address:John Anthony Baker (Heir of Betty Baker) Address:Owner:<	<u>TM 12 PCL</u>	13	Owner:	Mary Lynn Lococo
Address:     2375 192 <sup>af</sup> Road Sabetha, KS 66534     Pompano Beach, FL 33064       Owner:     Margo Kiehl Address:     Donald Vincent Lococo 27 Hi Barlow Road Newtown, CT 06470       Owner:     Mary Lee Lilly & Percy Lilly Address:     Donald Vincent Lococo 760 NE 114th Street Biscayne Park, FL 33161       Owner:     Joseph Robert Loonian 4ddress:     Owner:     Rose Marie VanHeuveln 760 NE 114th Street Biscayne Park, FL 33161       Owner:     Joseph Robert Loonian 4ddress:     Owner:     Theresa Lee Robertson Address:       Joseph Robert Loonian 4ddress:     Joseph Robert Loonian 4ddress:     Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542       Owner:     John Michael Leonian 820 Price Street Morgantown, WV 26505     Owner:     Michelle Lococoo Bushmire Address:       Martess:     611 Churchill Drive Charleston, WV 25314     Owner:     Michelle Lococo Bushmire Address:       Owner:     Rid gewood Development, LLC Address:     Owner:     Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415       Owner:     Ridgewood Development, LLC Address:     Owner:     John Anthony Baker (Heir of Betty Baker) Address:       Owner:     Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)     Owner:     John Anthony Baker (Heir of Betty Baker) Address:       Owner:     Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)     Owner:     Timothy Olan Baker (Heir of Betty Baker) Address:       Owner:     Nila Ash Salor (Revocab			Address:	
Sabetha, KS 66534Owner: Address:Donald Vincent Lococo 27 Hi Barlow Road Newtown, CT 06470Owner: Address:Margo Kiehl 31 Brock Der, NY 14420Owner: Address:Rose Marie VanHeuveln Address:Owner: Mary Lee Lilly & Percy Lilly Address:Mary Lee Lilly & Percy Lilly Address:Owner: Address:Rose Marie VanHeuveln Address:Owner: Address:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Theresa Lee Robertson 3258 Lincoln Way Hollywood, FL 33026Owner: Address:John Michael Leonian 4ddress:Owner: 6201 Wilnington Way Flowery Branch, GA 30542Owner: Morgantown, WV 26505Owner: Morgantown, WV 2505Martha Sue Muzio 6201 Wilnington Way Flowery Branch, GA 30542Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Rita Jarvis 15 Mountaineer Drive Williamstown, WV 26187Owner: Address:Edgel K. & Betty Baker 371 Little Beason Road Pennsboro, WV 26415Owner: Address:Villiam Paul Haper 4 Ashwood Drive Vienna, WV 26105Owner: Baker) Address:John Anthony Baker (Heir of Betty Baker) Address:Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:Iofo7 Niagra Street Parkersburg, WV 2615Owner: Pon Bor, Po, Box 542212 Merrit Island, FL 32954Owner: William Street Parkersburg, WV 26262Owner: Harrisville,	Address:			Pompano Beach, FL 33064
Owner: Address:     Margo Kiehl 31 Brook Ter Brockport, NY 14420     Address:     27 Hi Barlow Road Newtown, CT 06470       Owner: Address:     Mary Lee Lilly & Percy Lilly 110 Mohawk Street Tiffin, OH 44883     Owner: Address:     Rose Marie VanHeuveln Address:       Owner: Mary Lee Lilly & Percy Lilly 110 Mohawk Street Tiffin, OH 44883     Owner: Address:     Rose Marie VanHeuveln Address:       Owner: Address:     Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 2505     Owner: Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542       Owner: Address:     Johm Michael Leonian 820 Price Street Morgantown, WV 2505     Owner: Michelle Lococo Bushmire Address:       Owner: Bailey Ann Mills Address:     Owner: Bailey Ann Mills 611 Churchill Drive Charleston, WV 25147     Owner: Address:       Owner: Martha Sue Muzio Address:     File Jarvis Address:     Bailey Ann Mills 611 Churchill Drive Charleston, WV 25187       Owner: Martha Sue Muzio Address:     State Washington Bivd. N, Apt D415 Renton, WA 98056       Owner: Martha Sue Operce Road Waverly, WV 26184     Owner: Address:       Owner: Address:     Pis Buil Creek Road Waverly, WV 26184       Owner: Martha Sue (Heir of Betty Baker)     John Anthony Baker (Heir of Betty Baker)       Owner: Madress:     1607 Niagra Street Parkersburg, WV 26415       Owner: Nia Ash Salor (Revocable Trust by Joseph F. Silek, Jr.) Address:     1607 Niagra Street Parkersburg, WV 26415       Owner: Nia Ash Salor (Revocable Trust by Joseph F. Silek, Jr.) Address:     16		Sabetha, KS 66534		•
Address:       31 Brook Ter Brockport, NY 1420       Newtown, CT 06470         Owner::       Mary Lee Lilly & Percy Lilly 110 Mohawk Street Tiffin, OH 44883       Rose Marie VanHeuveln 760 NE 114th Street Biscayne Park, FL 33161         Owner::       Joseph Robert Leonian Address:       Mary Lee Lilly & Percy Lilly 100 Mohawk Street Tiffin, OH 44883       Owner::       Rose Marie VanHeuveln 760 NE 114th Street Biscayne Park, FL 33161         Owner::       Joseph Robert Leonian Address:       Morgantown, WV 26505       Owner:       Martha Sue Muzio Address:       Martha Sue Muzio (201 Wilnington Way Flowery Branch, GA 30542         Owner:       Bailey Ann Mills Address:       Michell Lococo Bushmire Address:       Michell Lococo Bushmire Address:         Owner:       Bailey Ann Mills Address:       Owner:       Michell Lococo Bushmire Address:         Address:       15 Mountaineer Drive Williamstown, WV 26187       Owner:       Elizabeth Florence Lococo Address:         Owner::       Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184       Owner:       John Anthony Baker (Heir of Betty Baker)         Owner::       John Anthony Baker (Heir of Betty Parkersburg, WV 26105       Owner:       John Anthony Baker (Heir of Betty Baker)         Owner::       Nila Ash Salor (Revocable Trust by Joseph F. Silek, J.)       Owner:       John Anthony Baker (Heir of Betty Baker)         Owner::       Nila Ash Salor (Revocable Trust by Joseph F. S		,	<b>Owner:</b>	Donald Vincent Lococo
Brockport, NY 14420Owner: Address:Rose Marie VanHeuveln 760 NE 114th Street Biscayne Park, FL 33161Owner: Address:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Theresa Lee Robertson 3258 Lincoln Way Hollywood, FL 33026Owner: Address:Join Michael Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:Join Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Hichell Leocoo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Ridgewood Development, LLC Williamstown, WV 26187Owner: Multa PDL 12 Dwner: Address:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper Address:Owner: 14 Ashwood Drive Vienna, WV 26105Owner: Downer: Maddress:John Anthony Baker (Heir of Betty Baker) Address:Owner: Na Ash Salor (Revocable Trust by Joseph F. Silek, r.) Address:Owner: 4007 Niaga Street Parkersburg, WY 26101, edge Address:Owner: 1607 Niagra Street Parkersburg, WY 26101, edge Address:Owner: Neil Ash Salor (Revocable Trust by Joseph F. Silek, r.) Address:Owner: 4007 Niagra Street Parkersburg, WY 26101, edge Address:Owner: 4007 Niagra Street Parkersburg, WY 26101, edge Addre	<b>Owner:</b>	Margo Kiehl	Address:	27 Hi Barlow Road
Owner: Address:Mary Lee Lilly & Percy Lilly Address:Owner: Address:Rose Marie VanHeuveln Address:Owner: Address:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Theresa Lee Robertson 3258 Lincoln Way Hollywood, FL 33026Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Winnington Way Flowery Branch, GA 30542Owner: Morgantown, WV 26505Owner: Morgantown, WV 26505Martha Sue Muzio 6201 Winnington Way Flowery Branch, GA 30542Owner: Morgantown, WV 26505Owner: Morgantown, WV 26505Martha Sue Muzio 6201 Winnington Way Flowery Branch, GA 30542Owner: Marthess: 611 Churchill Drive Charleston, WV 25314Owner: Martha Sue Muzio Hilliam Stown, WV 26187Michelle Lococo Bushmire Address: 15 Mountaineer Drive Williamstown, WV 26187Owner: Address: 955 Bull Creek Road Waverly, WV 26184TH 18 PCL 2 Owner: Address: 955 Bull Creek Road Waverly, WV 26184Owner: Baker Address:Owner: Address: 160 Authony Baker (Heir of Betty Haddress: 14 Ashwood Drive Vienna, WV 26105Owner: Baker Address:John Anthony Baker (Heir of Betty Baker) Address: 1607 Niagra Street Parkersburg, WY 26105Owner: Round, WA 2630Owner: Martha Street Parkersburg, WY 26415Owner: Charleston MV 26415Owner: Round, Address: 4 AddressThisbery Edule Moleco (Heir of Betty Baker) Address: 1607 Niagra Street Parkersburg, WY 26415Owner: Round, WA 2630Down	Address:	31 Brook Ter		Newtown, CT 06470
Owner: Address:Mary Lee Lilly & Percy Lilly 110 Mohawk Street Tiffin, OH 44883Address:760 NE 114th Street Biscayne Park, FL 33161Owner: Address:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Theresa Lee Robertson Address:Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Hichelle Lococo Bushmire Address:Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 2514Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Rita Jarvis 15 Mountaineer Drive Williamstown, WV 26187Owner: Charleston, WV 26187Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Ridgewood Development, LLC 955 Bull Creck Road Waverly, WV 26184Owner: Baker) Address:John Anthony Baker (Heir of Betty Baker) Address:Owner: Address:Niel Ash Salor (Revocable Trust by Joseph F. Silek, F.)Owner: Address:John Anthony Baker (Heir of Betty Baker) Address:Owner: Address:Niel Ash Salor (Revocable Trust by Joseph F. Silek, F.)Owner: Address:John Anthony Baker (Heir of Betty Baker) Address:Owner: Address:David Paul Lococo PAUSOwner: Address:1607 Niagra Street Parkersburg, WY 2		Brockport, NY 14420		
Owner:Joseph Robert Leonian Address:Biscayne Park, FL 33161Owner:Joseph Robert Leonian Address:Descharter 343 Cornell Avenue Morgantown, WV 26505Descharter Address:Biscayne Park, FL 33161Owner:Joseph Robert Leonian Address:Address:3258 Lincoln Way Hollywood, FL 33026Owner:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Martha Sue Muzio Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner:Bailey Ann Mills Address:Owner: 611 Churchill Drive Charleston, WV 25314Owner: Michelle Lococo Bushmire Address:Owner:Rita Jarvis Address:Owner: 15 Mountaineer Drive Williamstown, WV 26187Owner: Mathems, OH 45701Elizabeth Florence Lococo Address:Owner:Ridgewood Development, LLC Address:Owner: 955 Bull Creek Road Athens, OH 45701 Address:Edgel K. & Betty Baker 304 East Raymond Ave. Pennsboro, WV 26415Owner:Nillian Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:John Anthony Baker (Heir of Betty Baker) Address:Address:43 Chester Street Front Royal, VA 22630Owner: Madress:Timothy Olan Baker (Heir of Betty Baker) Address:Owner:David Paul Lococo P.O. Box 542212 Merrit Island, FL 32954Owner: Madress:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>m</sup> Address) Address:Owner:David Paul Lococo P.O. Box 542212 Merrit Island, FL 32954Owner: Madress:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>m</sup> Address)				
Address:110 Mohawk Street Tiffin, OH 44883Biscayne Park, FL 33161Owner:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Theresa Lee Robertson 3258 Lincoln Way Hollywood, FL 33026Owner:John Michael Leonian Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner:John Michael Leonian Address:Morgantown, WV 26505Owner:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Owner:Rita Jarvis Address:Michelle Lococo Bushmire 4473 Swilean Bridge Lane North Jacksonville, FL 32224Owner:Rita Jarvis Address:Owner: Hilderess:Address:15 Mountaineer Drive Williamstown, WV 26187Owner: Owner: Address:Owner:Ridgewood Development, LLC Waverly, WV 26184Owner: Address:John Anthony Baker Address:Owner:William Paul Harper Address:Owner: John Anthony Baker (Heir of Betty Baker) Address:John Anthony Baker (Heir of Betty Baker)Address:14 Ashwood Drive Viena, WV 26105Owner: Madress:John Anthony Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Tust by Joseph F. Silek, Jr.)Owner: Address:1607 Niagra Street Parkershry, W 26105Owner:David Paul Lococo PA. ddress:David Paul Lococo Parkershry, W 26362Owner: Madress:1607 Niagra Street Parkershry, W 26362Owner:David Paul Lococo PA. ddress:David Paul Lococo PA. ddress:17 2017 4ddress:	Owner:	Mary Lee Lilly & Percy Lilly	Address:	
Owner: Address:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Owner: Address:Theresa Lee Robertson Address:Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Martha Sue Muzio Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Martha Sue Muzio Address:Michelle Lococo Bushmire 4473 Swilcan Bridge Lane North Jacksonville, FL 32224Owner: Address: Biley Ann Mills Address:Sile Jarvis State Price Prive Williamstown, WV 26187Owner: Elizabeth Florence Lococo Address: Baker)Owner: Address: Address: 955 Bull Creek Road Waverly, WV 26184Owner: Baker) Address: Baker)Edgel K. & Betty Baker Address: 304 East Raymond Ave. Pennsboro, WV 26415Owner: Address: I a Ashvood Drive Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker) Address: I 4 Ashwood Drive Vienna, WV 26105Owner: Silek, Jr.)Dillen Day Address: Address: Address: I 3 Chester Street Front Royal, VA 22630Owner: William State Parkersburg, WV 26101 Address: Address: Address: I 2017 AddressOwner: Address: Po. Box 542212 Merritt Island, FL 32954Owner: Winer: Harrisville, WV 26362Owner: William State Parkersburg, WV 26362Owner: <br< th=""><th>Address:</th><th></th><th></th><th>Biscayne Park, FL 33161</th></br<>	Address:			Biscayne Park, FL 33161
Owner: Address:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Address:3258 Lincoln Way Hollywood, FL 33026Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Michael Leonian 820 Price Street Morgantown, WV 26505Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:Bailey Ann Mills 11 Churchill Drive Charleston, WV 25314Owner: Michael Leonion Address:Michelle Lococco 4ddress:Owner: Address:Bailey Ann Mills 11 Churchill Drive Williamstown, WV 26187Owner: Milamstown, WV 26187Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner: Baker)Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper Address:John Anthony Baker (Heir of Betty Baker)Address: Address:10 Ellen Day Address:304 East Raymond Ave. Pennsboro, WV 26415Owner: Nila Ash Salor Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:1607 Niagra Street Parkersburg, W Hellowed Heir of Betty Baker) Address:Address: Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>m</sup> Address) Harrisville, WV 26362 <th></th> <th>Tiffin, OH 44883</th> <th>_</th> <th>_, ,</th>		Tiffin, OH 44883	_	_, ,
Owner:Joseph Robert Leonian 343 Cornell Avenue Morgantown, WV 26505Hollywood, FL 33026Owner:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner:Bailey Ann Mills Address:Michelle Lococo Bushmire Address:Michelle Lococo Bushmire Address:Address:611 Churchill Drive Charleston, WV 25314Owner:Michelle Lococo Bushmire Address:Owner:Raita Jarvis Address:Owner: 15 Mountaineer Drive Williamstown, WV 26187Owner: Address:Elizabeth Florence Lococo Address:Owner:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner: Baker)Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner:William Paul Harper Address:Owner: 106 Ellen Day Address:Owner: Address:John Anthony Baker (Heir of Betty Baker)Address:1607 Niagra Street Parkersburg, WV 26105Owner: Baker)Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:1607 Niagra Street Parkersburg, WV 26105Owner:David Paul Lococo Po. Box 542212 Merritt Island, FL 32954Owner: Kimberly LeDawn McCloy (Heir of Betty Baker) (2m Address) Address:Address: Address:				
Address:343 Cornell Avenue Morgantown, WV 26505Hollywood, FL 33020Owner:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner:Bailey Ann Mills 4ddress:Owner: 611 Churchill Drive Charleston, WV 25314Owner: Address:Michelle Lococo Bushmire 4473 Swilcan Bridge Lane North Jacksonville, FL 32224Owner:Rita Jarvis Address:Owner: 611 Churchill Drive Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo Address:Owner:Ridgewood Development, LLC Williamstown, WV 26187Owner: Owner: Address:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner:William Paul Harper Address:Owner: 304 East Raymond Ave. Pennsboro, WV 26415Owner:John Anthony Baker (Heir of Betty Baker)Address:43 Cheester Street Front Royal, VA 22630Owner: Address:Address:Pavid Paul Lococo Po. Box 542212 Merritt Island, FL 32954Owner: Address:John Anthony Baker (Heir of Betty Baker) Address:Owner:David Paul Lococo Po. Box 542212 Merritt Island, FL 32954Owner: Address:Simberly Edites Address) Address:Owner:David Paul Lococo Po. Box 542212 Merritt Island, FL 32954Owner: Winer: Kimberly LeDawn McCloy (Heir of Betty Baker) (2m Address) Address:	Owner:	Ioseph Robert Leonian	Address:	•
Morgantown, WV 26505Owner: Address:Martha Sue Muzio 6201 Wilmington Way Flowery Branch, GA 30542Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Owner: Address:Michelle Lococo Bushmire 4473 Swilcan Bridge Lane North Jacksonville, FL 32224Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Morgantown, WV 26187Elizabeth Florence Lococo Address:Owner: Address:Rita Jarvis 15 Mountaineer Drive Williamstown, WV 26187Owner: Hill B PCL 2Elizabeth Florence Lococo Address:Owner: Address:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner: Baker)Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper Address:Owner: 14 Ashwood Drive Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:1607 Niagra Street Parkersburg, WV 26105Owner: Address:David Paul Lococo Po. Box 542212 Merritt Island, FL 32954Owner: Address:1607 Niagra Street Parkersburg, WV 26362Owner: Heir of Betty Baker)David Paul Lococo Address:Owner: Address:17 2017 Address)Address: Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Address:Listweet McCloy (Heir of Betty Baker) (2 <sup>m</sup> Address)Address: Heir of Betty Baker)Address: Address:17 2017 Addres		-		Hollywood, FL 33026
Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Address: Address:Address: Flowery Branch, GA 30542Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Michael Leococo Bushmire Address:Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Michael Leococo 4ddress:Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26187Owner: Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper 4 Stek Cooper Road Athens, OH 45701 Owner: I Jo Ellen Day Address:Owner: 14 Ashwood Drive Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:1607 Niagra Street Parkersburg, WV 26101 Heccel WU 26362Owner: Heir of Betty Baker) Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Address:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>ad</sup> Address) Address:Address: Address:P.O. Box 542212 Merritt Island, FL 32954Owner: Address:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>ad</sup> Address) Address:			0	Martha Sua Muria
Owner: Address:John Michael Leonian 820 Price Street Morgantown, WV 26505Flowery Branch, GA 30542Address:820 Price Street Morgantown, WV 26505Owner: Address:Michelle Loccoc Bushmire 4473 Swilcan Bridge Lane North Jacksonville, FL 32224Owner: Address:Bailey Ann Mills Gharleston, WV 25314Owner: Address:Michelle Loccoc Bushmire 4473 Swilcan Bridge Lane North Jacksonville, FL 32224Owner: Address:Bailey Ann Mills Gharleston, WV 25314Owner: Address:Elizabeth Florence Loccoc 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Rita Jarvis 15 Mountaineer Drive Williamstown, WV 26187Owner: Cowner: Address:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper 4884 Cooper Road Athens, OH 45701 Address:Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Slick, Jr.)Owner: Baker)Timothy Olan Baker (Heir of Betty Parkersburg, WV 26101 Parkersburg, WV 26201Owner: Power: Power: Pavid Paul Loccoc P.O. Box 542212 Merritt Island, FL 32954Owner: Winer: Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>m</sup> Address) Address: Address:Vienawith, WV 26362Owner: Harrisville, WV 26362Owner: Harrisville, WV 26362Vienawith, WV 26362		<b>0</b> ,		
Address:820 Price Street Morgantown, WV 26505Owner: Address:Michelle Lococo Bushmire 4473 Switcan Bridge Lane North Jacksonville, FL 32224Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Address:Michelle Lococo 4473 Switcan Bridge Lane North Jacksonville, FL 32224Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Owner: Bailey Ann MillsElizabeth Florence Lococo Address:Owner: Address:Rita Jarvis 15 Mountaineer Drive Williamstown, WV 26187Owner: Cowner: Address:Elizabeth Florence Lococo Address:Owner: Address:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner: Address:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper Address:Owner: 304 East Raymond Ave. Pennsboro, WV 26415John Anthony Baker (Heir of Betty Baker)Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:1607 Niagra Street Parkersburg, WV 26104Owner: Herior Merit Island, FL 32954David Paul Lococo Herior Betty Baker) (2 <sup>m</sup> Address) Address:Address: 416 Gobblers Lane Harrisville, WV 26362	<b>Owner</b>	John Michael Leonian	Address:	
Morgantown, WV 26505Owner: Address:Michelle Lococo Bushmire 4473 Swilcan Bridge Lane North Jacksonville, FL 32224Owner: Address:611 Churchill Drive Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:15 Mountaineer Drive Williamstown, WV 26187Owner: Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:Ridgewood Development, LLC Waverly, WV 26184Owner: Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper Address:Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Jo Ellen Day Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:1607 Niagra Street Parkersburg, WV 26105Owner: Parkersburg, WV 26101I for Niagra Street Parkersburg, WV 26101Owner: Baker1607 Niagra Street Parkersburg, WV 26101Owner: Harrisville, WV 26362Cowner: Harrisville, WV 26362Owner: Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>ml</sup> Address) Address: Harrisville, WV 26362				Flowery Blanch, OA 50542
Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Address:4473 Swilcan Bridge Lane North Jacksonville, FL 32224Owner: Address:611 Churchill Drive Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:15 Mountaineer Drive Williamstown, WV 26187Dwner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Pis5 Bull Creek Road Waverly, WV 26184Owner: Address:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper Address:Owner: 4ddress:John Anthony Baker (Heir of Betty Baker)Owner: Address:Jo Ellen Day Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Jo Ellen Day Address:Address:1607 Niagra Street Parkersburg, WY 26101 Heir of Betty Baker)Owner: Address:Pavid Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Address:Kimberly Icdfilder McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Owner: Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Address:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address: Address:Address: Address:415 Gobblers Lane Herrisville, WV 26262	Auur css.		Owner:	Michelle Lococo Bushmire
Owner: Address:Bailey Ann Mills 611 Churchill Drive Charleston, WV 25314Jacksonville, FL 32224Owner: Address:611 Churchill Drive Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:15 Mountaineer Drive Williamstown, WV 26187Owner: Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner: Address:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper Address:Owner: 4ddress:John Anthony Baker (Heir of Betty Baker) Address:Owner: Address:Jo Ellen Day Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker) Address:Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:1607 Niagra Street Parkersburg, W 26101 Parkersburg, W 26101 Address:Owner: Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Winer: Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Owner: Address:Cowner: Address:Owner: Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner: Address:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address) Address:				
Address:611 Churchill Drive Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Is Mountaineer Drive Williamstown, WV 26187Owner: Bdgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner: Address:Elizabeth Florence Lococo 1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner: Bdgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper 4884 Cooper Road Athens, OH 45701 Owner:Owner: Jo Ellen Day Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Haid Address:1607 Niagra Street Parkersburg, WV 26101 Parkersburg, WV 26101Owner: Heir of Betuy I Other Heir of Betuy I Other Harisville, WV 26302Owner: Harisville, WV 26362Owner: Madress:Kimberly I Other Harisville, WV 26362Owner: Harisville, WV 26362David Paul Lococo Address:Owner: Harisville, WV 26362Kimberly LeDawn MoCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address: Address:Kimberly LeDawn MoCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:	Awnor	Bailey Ann Mills	7 KUUI 0551	•
Charleston, WV 25314Owner: Address:Elizabeth Florence Lococo Address:Owner: Address:15 Mountaineer Drive Williamstown, WV 26187Address:1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner: Address:Fidgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184TM 18 PCL 2 Owner: Address:Owner: Edgel K. & Betty Baker Address:Owner: Address:955 Bull Creek Road Waverly, WV 26184Owner: Baker)Edgel K. & Betty Baker Address:Owner: Address:955 Bull Creek Road Waverly, WV 26184Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Jo Ellen Day Athens, OH 45701 Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:14 Ashwood Drive Vienna, WV 26105Owner: Baker)Timothy Olan Baker (Heir of Betty Baker)Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Hatersburg, WV 26101 Parkersburg, WV 26102Owner: Po. Box 542212 Merritt Island, FL 32954Owner: Winer: Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address: Address: Address:Owner: Harisville, WV 26362		•		
Owner:Rita JarvisAddress:1083 Lake Washington Blvd. N, Apt D415 Renton, WA 98056Owner:I5 Mountaineer Drive Williamstown, WV 26187TM 18 PCL 2 Owner:Renton, WA 98056Owner:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner:William Paul Harper Address:Owner:John Anthony Baker (Heir of Betty Baker)Address:4884 Cooper Road Athens, OH 45701Owner:John Anthony Baker (Heir of Betty Baker)Owner:Jo Ellen Day Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner:Timothy Olan Baker (Heir of Betty Baker)Address:43 Chester Street Front Royal, VA 22630Owner:Kimberly Leftinger MeChills & Gas (Heir of Betty Baker) 17 2017 Address:Owner:David Paul Lococo Address:Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address:415 Gobblers Lane (Por St222)Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:	Auui css.		<b>Owner:</b>	Elizabeth Florence Lococo
Address:       15 Mountaineer Drive Williamstown, WV 26187       Renton, WA 98056         Owner:       Ridgewood Development, LLC Address:       Renton, WA 98056         Owner:       Ridgewood Development, LLC Address:       Cowner:       Edgel K. & Betty Baker Address:         Owner:       William Paul Harper Address:       Owner:       John Anthony Baker (Heir of Betty Baker)         Owner:       William Paul Harper Athens, OH 45701       Owner:       John Anthony Baker (Heir of Betty Baker)         Owner:       Jo Ellen Day Vienna, WV 26105       Owner:       John Anthony Baker (Heir of Betty Baker)         Owner:       Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)       Owner:       Timothy Olan Baker (Heir of Betty Baker)         Address:       43 Chester Street Front Royal, VA 22630       Owner:       Kimberly Leditor McCluy (Heir of Betty Baker) 17 2017         Owner:       David Paul Lococo Address:       David Paul Lococo       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       P.O. Box 542212 Merritt Island, FL 32954       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane Harrisville, WV 26362			Address:	1083 Lake Washington Blvd. N,
Address:15 Mountaineer Drive Williamstown, WV 26187Renton, WA 98056Owner:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184TM 18 PCL 2 Owner:Renton, WA 98056Owner:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184TM 18 PCL 2 Owner:State Pennsboro, WV 26415Owner:William Paul Harper 4884 Cooper Road Athens, OH 45701Owner:John Anthony Baker (Heir of Betty Baker)Address:4884 Cooper Road Athens, OH 45701Owner:John Anthony Baker (Heir of Betty Baker)Address:14 Ashwood Drive Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner:Timothy Olan Baker (Heir of Betty Baker)Address:43 Chester Street Front Royal, VA 22630Owner:Kimberly Ichies McCiby & Gas (Heir of Betty Baker) 17 2017 Address:Owner:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:	Owner:	Rita Jarvis		Apt D415
Williamstown, WV 26187TM 18 PCL 2Owner:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184Owner:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner:William Paul Harper Address:Address:John Anthony Baker (Heir of Betty Baker)Address:4884 Cooper Road Athens, OH 45701Owner:John Anthony Baker (Heir of Betty Baker)Owner:Jo Ellen Day Address:Address:304 East Raymond Ave. Pennsboro, WV 26415Owner:Jo Ellen Day Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Mdress:1607 Niagra Street Parkersburg, WV 26101 Parkersburg, WV 26101Address:43 Chester Street Front Royal, VA 22630Owner:Kimberly Ictified of Sectory Heir of Betty Baker) 17 2017 Address:Owner:David Paul Lococo P.O. Box 542212 Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address:415 Gobblers Lane UW 26162				Renton, WA 98056
Owner: Address:Ridgewood Development, LLC 955 Bull Creek Road Waverly, WV 26184TM 18 PCL 2 Owner: Address:Edgel K. & Betty Baker 357 Little Beason Road Pennsboro, WV 26415Owner: Address:William Paul Harper 4884 Cooper Road Athens, OH 45701Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Jo Ellen Day 14 Ashwood Drive Vienna, WV 26105Owner: Baker)John Anthony Baker (Heir of Betty Baker)Owner: Address:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner: Address:I 607 Niagra Street Parkersburg, WV 26101 Meret Day Address:Owner: Address:I 607 Niagra Street Parkersburg, WV 26101 Parkersburg, WV 26201Owner: Parkersburg, WV 26101 Parkersburg, WV 26362Owner: Address:David Paul Lococo Po. Box 542212 Merritt Island, FL 32954Owner: Parkersburg, WV 26362Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address: Address:Address: Po Betty Baker) (2 <sup>nd</sup> Address) Address:Mather With 26260				
Address:955 Bull Creek Road Waverly, WV 26184Address:357 Little Beason Road Pennsboro, WV 26415Owner:William Paul Harper 4884 Cooper Road Athens, OH 45701Owner:John Anthony Baker (Heir of Betty Baker)Owner:Jo Ellen Day Address:Address:304 East Raymond Ave. Pennsboro, WV 26415Owner:Jo Ellen Day Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner:Timothy Olan Baker (Heir of Betty Baker)Address:43 Chester Street Front Royal, VA 22630Owner:Kimberly Lefter Jaker) 17 2017 Address:Owner:David Paul Lococo Address:Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address:P.O. Box 542212 Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address:415 Gobblers Lane Harrisville, WV 26362Address:415 Gobblers Lane Harrisville, WZ 26262			<u>TM 18 PCL</u>	<u>. 2</u>
NumberWaverly, WV 26184Pennsboro, WV 26415Owner:William Paul Harper Address:Owner:John Anthony Baker (Heir of Betty Baker)Address:4884 Cooper Road Athens, OH 45701Address:John Anthony Baker (Heir of Betty Baker)Owner:Jo Ellen Day Address:Address:304 East Raymond Ave. Pennsboro, WV 26415Owner:Jo Ellen Day Address:Address:304 East Raymond Ave. Pennsboro, WV 26415Owner:Jo Ellen Day Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)1607 Niagra Street Parkersburg, WV 26101 & Gas (Heir of Betty Baker) 17 2017Address:43 Chester Street Front Royal, VA 22630Owner:Kimberly IGtiles MecCilly & Gas (Heir of Betty Baker) 17 2017Owner:David Paul Lococo Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)Address:415 Gobblers Lane Harrisville, WV 2652Address:415 Gobblers Lane Harrisville	<b>Owner:</b>	Ridgewood Development, LLC	<b>Owner:</b>	
Owner:William Paul Harper Address:Owner:John Anthony Baker (Heir of Betty Baker)Address:4884 Cooper Road Athens, OH 45701Address:John Anthony Baker (Heir of Betty Baker)Owner:Jo Ellen Day Address:Address:304 East Raymond Ave. Pennsboro, WV 26415Owner:Jo Ellen Day Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Owner:Timothy Olan Baker (Heir of Betty Baker)Address:43 Chester Street Front Royal, VA 22630Owner:Kimberly Ichicol McColly Heir of Betty Baker) 1 7 2017 Address:Owner:David Paul Lococo Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address:P.O. Box 542212 Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:	Address:	955 Bull Creek Road	Address:	
Address:4884 Cooper Road Athens, OH 45701Baker)Owner:Jo Ellen Day Jo Ellen DayAddress:304 East Raymond Ave. Pennsboro, WV 26415Address:14 Ashwood Drive Vienna, WV 26105Owner: Baker)Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Address:1607 Niagra Street Parkersburg, WV 26101Address:43 Chester Street Front Royal, VA 22630Owner: Kimberly LeDawn McCloy (Heir of Betty Baker) 17 2017Owner:David Paul Lococo Merritt Island, FL 32954Owner: Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:		Waverly, WV 26184		Pennsboro, WV 26415
Address:4884 Cooper Road Athens, OH 45701Baker)Owner:Jo Ellen Day Jo Ellen DayAddress:304 East Raymond Ave. Pennsboro, WV 26415Address:14 Ashwood Drive Vienna, WV 26105Owner: Baker)Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Address:1607 Niagra Street Parkersburg, WV 26101Address:43 Chester Street Front Royal, VA 22630Owner: Kimberly LeDawn McCloy (Heir of Betty Baker) 17 2017Owner:David Paul Lococo Merritt Island, FL 32954Owner: Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:	Ownor	William Paul Harner	Owner•	John Anthony Baker (Heir of Betty
Athens, OH 45701Address:304 East Raymond Ave. Pennsboro, WV 26415Owner:Jo Ellen Day 4 Ashwood Drive Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Address:1607 Niagra Street Parkersburg, WV 26101Address:43 Chester Street Front Royal, VA 22630Owner:Kimberly Leditor McChy Heir of Betty Baker) 17 2017 Address:Owner:David Paul Lococo Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2nd Address) Address:Address:P.O. Box 542212 Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2nd Address) Address:		-		Form 7 milliony Durier (1101 of Delly
Owner:Jo Ellen DayPennsboro, WV 26415Address:14 Ashwood Drive Vienna, WV 26105Owner:Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Address:1607 Niagra Street Parkersburg, WV 26101 HeCeivedAddress:43 Chester Street Front Royal, VA 22630Owner:Kimberly I Other Baker) (Heir of Betty Baker)Address:Owner:David Paul Lococo Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Owner:Address:Address:Address:Address:415 Gobblers Lane UV 26262	Auur css.	-	,	304 East Raymond Ave.
Address:       14 Ashwood Drive Vienna, WV 26105       Owner: Baker)       Timothy Olan Baker (Heir of Betty Baker)         Owner:       Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)       Address:       1607 Niagra Street Parkersburg, WV 26101 Heierof Date McCloy (Heir of Betty Baker)         Address:       43 Chester Street Front Royal, VA 22630       Owner:       Kimberly I Childen McCloy (Heir of Betty Baker)         Owner:       David Paul Lococo Address:       David Paul Lococo       Harrisville, WV 26362         Merritt Island, FL 32954       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane Harrisville, WV 26262	Owner:			-
Vienna, WV 26105Owner: Baker)Timothy Olan Baker (Heir of Betty Baker)Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Address:1607 Niagra Street Parkersburg, WV 26101 HeceivedAddress:43 Chester Street Front Royal, VA 22630Owner:Kimberly Ichieved (Heir of Betty Baker) 17 2017 Harrisville, WV 26362Owner:David Paul Lococo Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) H3 Gobblers Lane Harrisville, WV 26362				
Owner:Nila Ash Salor (Revocable Trust by Joseph F. Silek, Jr.)Address:1607 Niagra Street Parkersburg, WV 26101 VeColVeC HecolVeCAddress:43 Chester Street Front Royal, VA 22630Owner:Kimberly I Other McCloy Heir of Betty Baker) 1 7 2017 Address:Owner:David Paul Lococo Herritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:Address:P.O. Box 542212 Merritt Island, FL 32954Owner:Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address) Address:	12001000		<b>Owner:</b>	Timothy Olan Baker (Heir of Betty
Owner:       David Paul Lococo         Address:       Parkersburg, WV 26101         Parkersburg, WV 26101       Recoved         Parkersburg, WV 26101       Recoved         Parkersburg, WV 26101       Recoved         Parkersburg, WV 26101       Recoved         Silek, Jr.)       Owner:       Kimberly Leftice Mechby & Gas         Address:       P.O. Box 542212       Address:         Merritt Island, FL 32954       Owner:       Kimberly Leftice Mechby & Gas         Address:       P.O. Box 542212       Merritt Island, FL 32954         Address:       Aldress:       Aldress:         Address:       Aldress:       Aldress)         Address:       Aldress       Aldress)		······································	Baker)	
Address:       43 Chester Street Front Royal, VA 22630       Owner:       Kimberly I Chill & Cas (Heir of Betty Baker) 17 2017         Owner:       David Paul Lococo       Address:       440 Hale Street Harrisville, WV 26362         Address:       P.O. Box 542212 Merritt Island, FL 32954       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane Harrisville, WV 26362	<b>Owner:</b>	Nila Ash Salor	Address:	1607 Niagra Street
Address:       43 Chester Street Front Royal, VA 22630       Owner:       Kimberly I Chill & Cas (Heir of Betty Baker) 17 2017         Owner:       David Paul Lococo       Address:       440 Hale Street Harrisville, WV 26362         Address:       P.O. Box 542212 Merritt Island, FL 32954       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane Harrisville, WV 26362		(Revocable Trust by Joseph F.		Parkersburg, WV 26101
Front Royal, VA 22630       (Heir of Betty Baker) 17 2017         Address:       David Paul Lococo         Address:       P.O. Box 542212         Merritt Island, FL 32954       Owner:         Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane         Harrisville, WV 26362		Silek, Jr.)		
Owner:       David Paul Lococo       Harrisville, WV 26362         Address:       P.O. Box 542212       Merritt Island, FL 32954         Merritt Island, FL 32954       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane         Harrisville, WV 26362	Address:	43 Chester Street	<b>Owner:</b>	Kimberly Ichilder McCloy
Owner:       David Paul Lococo       Harrisville, WV 26362         Address:       P.O. Box 542212       Merritt Island, FL 32954         Merritt Island, FL 32954       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane         Harrisville, WV 26362		Front Royal, VA 22630		(Heir of Betty Baker) 1 7 2017
Address:       P.O. Box 542212         Merritt Island, FL 32954       Owner:       Kimberly LeDawn McCloy (Heir of Betty Baker) (2 <sup>nd</sup> Address)         Address:       415 Gobblers Lane         Homiavillo       W/V 26262	_		Address:	440 Hale Suleel
Merritt Island, FL 32954 Merritt Island, FL 32954 Address: Address: Meir of Betty Baker) (2 <sup>nd</sup> Address) 415 Gobblers Lane Harriavilla, WV 26262				Harrisville, WV 20302
Address: (Heir of Betty Baker) (2 <sup>nd</sup> Address) 415 Gobblers Lane	Address:		0	Kimborly LoDever McClose
Address: 415 Gobblers Lane		Merritt Island, FL 32954	Owner:	
Hamieville WW 26262			Address	
03/24/2017			AUUI 033.	Hamiavilla WW 26262
				03/24/2017

WW-6A3 (1/12) Operator Well No. Raines Unit 1H

Multiple Wells on the Bachelor Pad

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF ENTRY FOR PLAT SURVEY</u>

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to

entry Date of Notice:	e: 2/17/2016 Date of Planned Entry: *2/27/2016		Antero may be	hat this is an estimated date. gin surveying seven (7) days but no		
Delivery metho	d pursuant t	to West Virginia C	ode 8 2	2-6A-10a		y-five (45) after your receipt of this ver comes first).
			- 5:			
D PERSONA	AL 🗌	REGISTERED	=	METHOD OF DEI	LIVERY THAT RE	EQUIRES A
SERVICE		MAIL		RECEIPT OR SIGN	NATURE CONFIR	MATION
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, which	e tract to cond n forty-five d act that has fil als underlying ontrol Manua h statement sl	duct any plat survey ays prior to such en ed a declaration put g such tract in the co al and the statutes ar	s require try to: ( rsuant to ounty tax nd rules informa	ed pursuant to this a 1) The surface owner o section thirty-six, a x records. The notic related to oil and ga ttion, including the a	rticle. Such notice s or of such tract; (2) rticle six, chapter to be shall include a sta s exploration and p	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 Erosion roduction may be obtained from the age on the Secretary's web site, to
Notice is hereby	y provided to	0:				
SURFACE	OWNER(s)			🗆 COA	L OWNER OR LE	SSEE
Name: PLEASE SE				Name: NO	DECLARATIONS ON REC	CORD WITH COUNTY
Address:			Address:			
Name:			2			
Address:			_		ERAL OWNER(s)	
Nome			-	Name: PLI	EASE SEE ATTACHMENT	
Address:			-	Address:		
			2	*please attac	ch additional forms if ne	cessary
Notice is here	hy given:					
		de § 22-6A-10(a), 1	notice is	hereby given that th	ne undersigned well	l operator is planning entry to conduct
a plat survey on						
State: w	Vest Virginia			Approx. Latit	tude & Longitude:	Approx. 39.311582, -81.015094 (Pad Center Coordinate
	N14			Public Road	Access:	CR 6/2
District: c	Clay			Watershed:		North Fork Hughes River
Quadrangle: E	llenboro			Generally used farm name:		Bachelor, Marion Ray
may be obtained Charleston, WV	from the Sec 25304 (304	cretary, at the WV I -926-0450). Copies	Departm of such	ent of Environmenta	al Protection headquional information r	il and gas exploration and production uarters, located at 601 57 <sup>th</sup> Street, SE, elated to horizontal drilling may be
Notice is here	by given by	:				
Well Operator:	Antero Resource			Address:	1615 Wynkoop Street	Received
Telephone:	(303) 357- 7310				Denver, CO 80202	Received Office of Oil & Ga
Email:	asteele@anteror	esources.com		Facsimile:	(303) 357-7315	Ga Ga
	1.5. Otto				1	JAN 17 2017

#### **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. Tax Map 12 Parcel 13

Tax Map 12 Parcel 13 Tax Map 18 Parcel 2 03/24/2017

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

#### Surface Owners: **Owner:** Mary Lynn Lococo Tax Parcel ID: 3-12-13 Address: 151 Leisure Blvd. Pompano Beach, FL 33064 **Owner:** Marion Ray Bachelor 2375 192<sup>nd</sup> Road Address: **Owner:** Donald Vincent Lococo Sabetha, KS 66534 Address: 27 Hi Barlow Road Newtown, CT 06470 **Owner:** Margo Kiehl Address: 31 Brook Ter **Owner:** Rose Marie VanHeuveln Brockport, NY 14420 Address: 760 NE 114th Street Biscayne Park, FL 33161 **Owner:** Mary Lee Lilly Address: 110 Mohawk Street **Owner:** Theresa Lee Robertson Tiffin, OH 44883 Address: 3258 Lincoln Way Hollywood, FL 33026 **Owner:** Joseph Robert Leonian Address: 343 Cornell Avenue **Owner:** Martha Sue Muzio Morgantown, WV 26505 Address: 6201 Wilmington Way Flowery Branch, GA 30542 **Owner:** John Michael Leonian **Owner:** Michelle Lococo Bushmire Address: 820 Price Street Address: 4473 Swilcan Bridge Lane North Morgantown, WV 26505 Jacksonville, FL 32224 **Owner: Bailey Ann Mills Owner:** Elizabeth Florence Lococo Address: 611 Churchill Drive Address: 1083 Lake Washington Blvd. N, Apt D415 Charleston, WV 25314 Renton, WA 98056 **Owner: Rita Jarvis Surface Owners:** Address: 15 Mountaineer Drive Tax Parcel ID: 3-18-2 Williamstown, WV 26187 **Owner:** Ridgewood Development, LLC **Owner:** Betty Baker Address: 955 Bull Creek Road Address: 357 Little Beason Road Waverly, WV 26184 Pennsboro, WV 26415 **Owner:** William Paul Harper **Mineral Owners:** Address: 4884 Cooper Road Tax Parcel ID: 3-12-13 Athens, OH 45701 **Owner:** Marion Ray Bachelor **Owner:** Jo Ellen Harper Day 2375 192<sup>nd</sup> Road Address: Address: 14 Ashwood Drive Sabetha, KS 66534 Vienna, WV 26105 Margo Kiehl **Owner:** Received **Owner:** Nila Ash Salor Brockport, NY 14420 Address: (Revocable Trust by Joseph F. Silek, Jr.) Address: 43 Chester Street JAN 17 2017 Front Royal, VA 22630 **Owner:** William Paul Harper Address: 14 Ashwood Drive **Owner:** David Paul Lococo Vienna, WV 26105 Address: P.O. Box 542212

Merritt Island, FL 32954

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

Owner: Address:	Jo Ellen Harper Day 14 Ashwood Drive Vienna, WV 26105	Owner: Address:	Bailey Ann Mills 611 Churchill Dr. Charleston, WV 25314
Owner: Address:	David Paul Lococo P.O. Box 541072 Merritt Island, FL 32954	Mineral C Tax Parcel II	
Owner: Address:	Mary Lynn Lococo P.O. Box 541072 Merritt Island, FL 32954	Owner: Address:	Carolyn G. Farr PO Box 1126 Bridgeport, WV 26330
Owner: Address:	Donald Vincent Lococo P.O. Box 541072 Merritt Island, FL 32954	Owner: Address:	Jean Lawhead Blagg 8400 Vamo Road – Unit 663 Sarasota, FL 34231
Owner: Address:	Rose Marie VanHueveln 760 NE 114 <sup>th</sup> Street Biscayne Park, FL 33161	Owner: Address:	June L. Baker HC 83 Box 49 Ellenboro, WV 26346
Owner: Address:	Theresa Lee Robertson 3258 Lincoln Way Hollywood, FL 33026	Owner: Address:	Rollin D. Baker and Mina R. Baker 1338 Hushers Run Rd. Pennsboro, WV 26415
Owner: Address:	Martha Sue Lococo P.O. Box 541072 Merritt Island, FL 32954	Owner: Address:	Virgel Bunner RR 2 Box 71 Pennsboro, WV 26415
Owner: Address:	Michelle L. Bushmire 14129 N. 107 <sup>th</sup> St. Scottsdale, AZ 85255	Owner: Address:	Samuel Anthony Baker Star Route Box 48 Harrisville, WV 26362
Owner: Address:	Elizabeth F. Lococo PO Box 541072 Merritt Island, FL 32954	Owner: Address:	Mark D. Baker Star Route Box 48 Harrisville, WV 26362
Owner: Address:	Rita Jarvis 15 Mountaineer Dr. Williamstown, WV 28187	Owner: Address:	Donzil Leroy Baker Star Route Box 48 Harrisville, WV 26362
Owner: Address:	Nila Ash Sayor 68 Sweetbrier Ct. Front Royal, VA 22630	Owner: Address:	Linda Collins Baker 159 Mahone Rd. Harrisville, WV 26362
Owner: Address:	Armen Leonian Box 7 Star Rt. Woodside, CA 94064	Owner: Address:	Ricky J. Baker, David L. Baker, Roy S. Baker, and Okey S. Baker 312 Davys Rd. Harrisville, WV 26362
Owner: Address:	Mary Lee Lilly 110 Mohawk St. Tiffin, OH 44883	Owner: Address:	Office of Oil & Gas Sharon S. Baker 1274 Hushers Run Rd. JAN 1 7 2017 Pennsboro, WV 26415

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

Owner: Address:	Betty Baker 357 Little Beason Rd Pennsboro, WV 26415
Owner: Address:	Roger Lee Baker 7617 Gillespie Run Rd. Harrisville, WV 26362
Owner: Address:	Elisa L. Barnhart 659 Farleys Run Rd. Pennsboro, WV 26415
Owner: Address:	Erosa L. Carr 659 Farleys Run Rd. Pennsboro, WV 26415
Owner: Address:	Eva L. Collins 659 Farleys Run Rd. Pennsboro, WV 26415
Owner: Address:	Evonne L. Furbey 659 Farleys Run Rd. Pennsboro, WV 26415
Owner: Address:	Justin R. Smith 659 Farleys Run Rd. Pennsboro, WV 26415

Received Office of Oil & Gas JAN 17 2017

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 01/13/2017 Date Permit Application Filed: 01/13/2017

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

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

(at the address listed in the records of the sheriff at the tim	e of notice):	
Name: PLEASE SEE ATTACHMENT	Name:	
Address:	Address:	_

#### Notice is hereby given:

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

State:	West Virginia	UTM NAD 83	Easting:	498696m	
County:	Ritchie	UTM NAD 83	Northing:	4351357m	
District:	Clay	Public Road Acc	ess:	CR 6/2	
Quadrangle:	Ellensboro 7.5'	Generally used f	arm name:	Marion R. Bachelor, et al	
Watershed:	North Fork Hughes River				

#### This Notice Shall Include:

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

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

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

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

JAN 17 2017

### **WW-6A5** Notice of Planned Operations Attachment (BACHELOR PAD): List of Surface Owner(s) with Proposed Disturbance associated with Bachelor Well Pad:

TM 12 PCL	13	Owner:	Mary Lynn Lococo
Owner:	Marion Ray Bachelor	Address:	151 Leisure Blvd.
Address:	2375 192 <sup>nd</sup> Road		Pompano Beach, FL 33064
	Sabetha, KS 66534		<b>F</b> , - =
	Subolina, iko obos i	<b>Owner:</b>	Donald Vincent Lococo
<b>Owner:</b>	Margo Kiehl	Address:	27 Hi Barlow Road
Address:	31 Brook Ter		Newtown, CT 06470
7 IUUI 035.	Brockport, NY 14420		- · · · · · · · · · · · · · · · · · · ·
	Dicceptiti, IVI 11120	<b>Owner:</b>	Rose Marie VanHeuveln
0		Address:	760 NE 114th Street
Owner:	Mary Lee Lilly & Percy Lilly		Biscayne Park, FL 33161
Address:	110 Mohawk Street		
	Tiffin, OH 44883	<b>Owner:</b>	Theresa Lee Robertson
		Address:	3258 Lincoln Way
<b>Owner:</b>	Joseph Robert Leonian		Hollywood, FL 33026
Address:	343 Cornell Avenue		
	Morgantown, WV 26505	<b>Owner:</b>	Martha Sue Muzio
		Address:	6201 Wilmington Way
<b>Owner:</b>	John Michael Leonian		Flowery Branch, GA 30542
Address:	820 Price Street		
	Morgantown, WV 26505	<b>Owner:</b>	Michelle Lococo Bushmire
	-	Address:	4473 Swilcan Bridge Lane North
Owner:	Bailey Ann Mills		Jacksonville, FL 32224
Address:	611 Churchill Drive		,
7 Iuur 0351	Charleston, WV 25314	<b>Owner:</b>	Elizabeth Florence Lococo
		Address:	1083 Lake Washington Blvd. N, Apt D415
<b>Owner:</b>	Rita Jarvis		Renton, WA 98056
Address:	15 Mountaineer Drive		
	Williamstown, WV 26187	<u>TM 18 PCI</u>	<u> </u>
	······································	<b>Owner:</b>	Edgel K. & Betty Baker
<b>Owner:</b>	Ridgewood Development, LLC	Address:	357 Little Beason Road
Address:	955 Bull Creek Road		Pennsboro, WV 26415
	Waverly, WV 26184		
		<b>Owner:</b>	John Anthony Baker (Heir of Betty Baker)
<b>Owner:</b>	William Paul Harper	Address:	304 East Raymond Ave.
Address:	4884 Cooper Road		Pennsboro, WV 26415
	Athens, OH 45701		
		<b>Owner:</b>	Timothy Olan Baker (Heir of Betty Baker)
<b>Owner:</b>	Jo Ellen Day	Address:	1607 Niagra Street
Address:	14 Ashwood Drive		Parkersburg, WV 26101
Auur css.	Vienna, WV 26105		Received
		<b>Owner:</b>	Kimberly LeDa Wiff McCloy Oil o
<b>Owner:</b>	Nila Ash Salor	_	
0.11011	(Revocable Trust by Joseph F. Silek, Jr.)	Address:	440 Hale Street JAN 17 2017
Address:	43 Chester Street		Harrisville, WV 26362
••••	Front Royal, VA 22630	0	Wind only LaDown McOler
	<b>.</b>	Owner:	Kimberly LeDawn McCloy
<b>Owner:</b>	David Paul Lococo		(Heir of Betty Baker) (2 <sup>nd</sup> Address)
Address:	P.O. Box 542212	Address:	415 Gobblers Lane
	Merritt Island, FL 32954		Harrisville, WV 26362
	,		



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

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

Earl Ray Tomblin Governor Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

Reissued January 5, 2017

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

Subject: DOH Permit for the Bachelor Pad, Ritchie County Raines Unit 1H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2016-0090 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off of Ritchie County Route 6/2 SLS.

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

Very Truly Yours,

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

6700510511

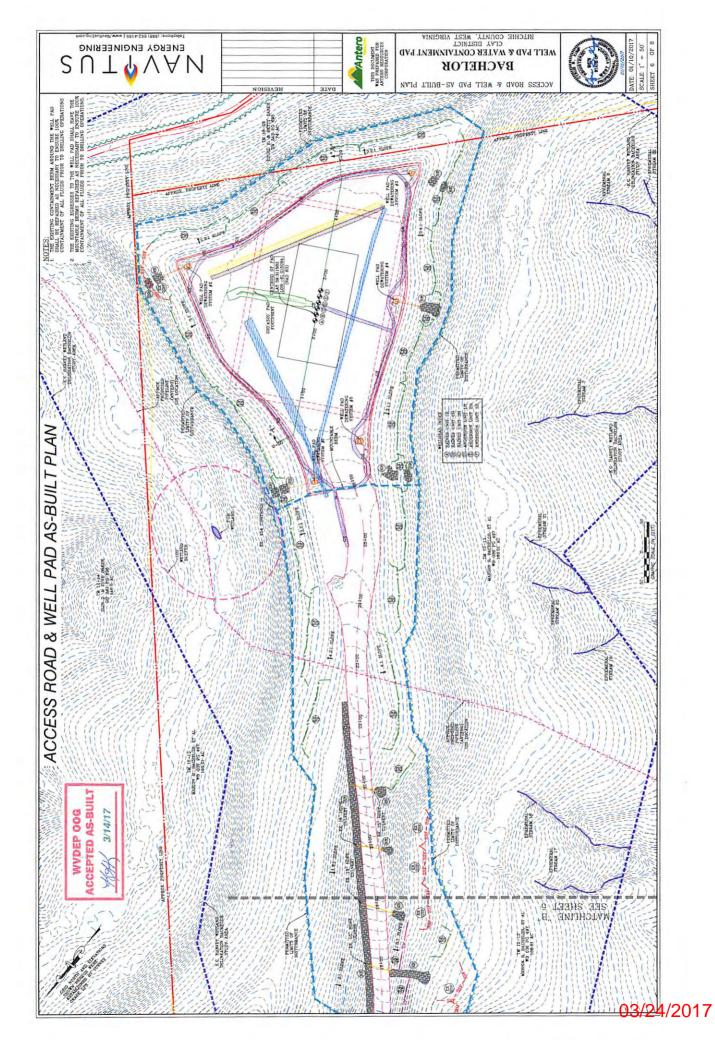
Cc: Kara Quackenbush Antero Resources Corporation CH, OM, D-3 File

Received Office of Oil & Gas JAN 17 2017

## 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 Received	
Diethylene Glycol	111-46-6 Office of	ក្រុទ
Methenamine	100-97-0	
Polyethylene polyamine	68603-67-8 JAN 1 7 2017	
Coco amine	61791-14-8	
2-Propyn-1-olcompound with methyloxirane	38172-91-7	

NAAV A TUS STATERING		METT EVONLE' MEEL AIBGINIY METT EVD & MALEK CONLYINNERL EVD BYCHEFOG CONEE SHEEL	DATE 0/10/2017 SEALE AS STOOM
A DAME TO A DAME	Access floar         (10)           Main March         (2013)           Main Maren         (2013)<	Weat Lease         Augrag         Augrad         Aug	REPRODUCTION NOTE these have needen to not the order of a state, and it parts have need them to not the order of an area. These have need them for the order have the them or isononitries in the following the last of isononitries in the state for the user for the last of isononitries in the state of the user for the last of
L PAD & WATER CONTAINMENT PAD ILL AND EROSION & SEDIMENT NTROL IMPROVEMENT PLAN CLAY DISTRICT, RITCHIE COUNT, WEST VIRGINIA BONDS CREEK WATERSHED USCS 75. ELLENDORO. & PENNSHORO USCS 75. FUEL PLAN USCS 75.	EFEAVLION BYZED ON	WTOOH COUNTY ROAD MAR WTOOH COUNTY ROAD MAR API 851011 API 85101 API 85101 API 85101 API 85101 API 8510 API 85101 API 8510 API 85101 API 85101 API 85101 API 85101 A	SAL 7 = 2007 MISS Utility of West Virginia West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you did in the state of West Virginia.
LOR WELL PAD & AS-BUILT AND EF CONTROL IMF CONTROL IMF CLAY DISTRICT, RITC BONDS CF USES T.5. ELLENDRE	KE TATELY TA	MEST VIRGINIA COUNTY MAP REI of AND OF THE OF THE OF THE OF THE MAP OF THE MAP OF THE MAP OF THE MAP OF THE MAP OF THE OF THE	AS-BUILT CERTIFICATIONS. AS-BUILT CERTIFICATIONS. The pawaves, covernments worths the pawaves, covernment water mana- ter pawaves. As the pawaves of the state mana- and state state.
Сосклюн сооконолиства: места во ягимас места во ягимас места во тима места в	D LL D L	отист, (кол) лат-тач стад. (кол) вел-чая какате какате сакточистаты, какате сакточита сакточите	<ol> <li>THE THAN THE AN EVENTION ON ONE THE A FREAM OF THE SITE</li> <li>THE FRAMMENT CONTROL MAN ONE THE SITE IS THE A FREAM OF THE SITE</li> <li>THE MANNENT STRUMENT CONTROL MANUTES CAN BE REAVORD FOR THE SITE</li> <li>ANY MARKET STRUMENT OF THE SITE A FREAM STALL BE REPARED. STRUMENTO, THE SITE IS THE MANUAL STRUMENT OF THE SITE A FREAM STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE REPARED. STRUMENTO, TO THE SITE A CONTROL STALL BE SITE A STALL BE SITE A CONTROL STALL BE SITE A STALL STALL</li></ol>



### LOCATION COORDINATES: ACCESS ROAD ENTRANCE

LATITUDE: 39.313130 LONGITUDE: -81.023456 (NAD 83) N 4351526.19 E 497977.90 (UTM ZONE 17 METERS)

CENTER OF TANK "A" LATITUDE: 39.314146 LONGITUDE: -81.020823 (NAD 83) N 4351638.83 E 498204.94 (UTM ZONE 17 METERS (UTM ZONE 17 METERS)

CENTER OF TANK "B' ATITUDE: 39.314215 LONGITUDE: -81.020319 (NAD 83) 1 4351646.46 E 498248.37 (UTM ZONE 17 METERS) N 4351646.46

CENTROID OF PAD LATITUDE: 39.311582 LONGITUDE: -81.015094 (NAD 83) E 498698.69 (UTM ZONE 17 METERS) N 4351354.21

#### GENERAL DESCRIPTION:

THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

#### FLOODPLAIN NOTES:

THE SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54085C0100C.

MISS UTILITY STATEMENT: ANTERO RESOURCES CORPORATION HAS NOTIFIED MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN; TICKET #1604013832.

#### ENTRANCE PERMIT:

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

ENVIRONMENTAL NOTES: STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN OCTOBER 2014 AND JANUARY 2016 BY KC HARVEY ENVIRONMENTAL, LLC TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE JANUARY 08, 2016 STREAM AND WETLAND DELINEATION INDEX MAP WAS PREPARED BY KC HARVEY ENVIRONMENTAL, LLC AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP.

<u>GEOTECHNICAL NOTES:</u> A SUBSURFACE INVESTIGATION OF THE SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. BETWEEN FEBRUARY 25, 2016 & MARCH 2, 2016. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC., DATED MARCH 10, 2016, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED. CHARLES E. COMPTON, III - SURVEYING COORDINATOR CELL: (304) 719-6449

JIM WILSON - LAND AGENT OFFICE: (304) 842-4419 CELL: (304) 671-2708

OFFICE: (888) 662-4185 CELL: (540) 686-6747

SHANNON THOMPSON - STAFF SCIENTIST OFFICE: (740) 373-1970 CELL: (970) 396-8250

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

ENVIRONMENTAL: KC HARVEY ENVIRONMENTAL, LLC

ENGINEER/SURVEYOR: NAVITUS ENGINEERING, INC. CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER

#### PROJECT CONTACTS:

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

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

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

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

ANTHONY SMITH - FIELD ENGINEER OFFICE: (304) 842-4208 CELL: (304) 673-6196

- RESTRICTIONS NOTES: 1. THERE ARE NO PERENNIAL STREAMS, WETLANDS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. 1.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND 2
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF 3. THE WELL PAD AND LOD. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE
- 4. WELL(S) BEING DRILLED. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL
- PAD
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD. 6.

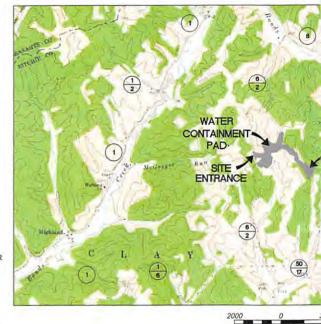
#### NOTES

- ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETE AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT IN EXCESS OF 0.5' AND ON A BUWEEKLY BASIS.
- THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS PAVEMENT OR BUILDINGS. IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP. 3.
- ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND PERMANENTLY SEEDED.
- THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF NOVEMBER 29, 2016. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES. 5
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS 6.
- THE EXISTING EGRESSES TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

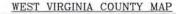
# BACHELOR WELL PAD & WA7 AS-BUILT AND EROSIC CONTROL IMPROVE

#### CLAY DISTRICT, RITCHIE COUN BONDS CREEK WATE

USGS 7.5 ELLENBORO & PENNS









(NOT TO SCALE)

# AS-BUILT CERTIFICATIONS: THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.



# ER CONTAINMENT PAD N & SEDIMENT EMENT PLAN

**TY, WEST VIRGINIA** RSHED BORO QUAD MAPS

200

**WVDOH** 



SHEET INDEX:

- 1 COVER SHEET
- LEGEND

oPUS 2 GPS

- OVERALL PLAN SHEET INDEX
- 4-5 ACCESS ROAD & WATER CONTAINMENT PAD AS-BUILT PLAN
- ACCESS ROAD & WELL PAD AS-BUILT PLAN
- ACCESS ROAD AS-BUILT PROFILES
- WELL PAD \* WATER CONTAINMENT PAD AS-BUILT SECTIONS

BACHELOR LIMITS OF DISTURBANCE	AREA (AC)
Total Site	
Access Road "A" (2,595')	10.45
Access Road "B" (706')	1.19
Well Pad	5.43
Water Containment Pad	3.19
Excess/Topsoil Material Stockpiles	10.77
Total Affected Area	31.03
Total Wooded Acres Disturbed	29.30
Impacts to Marion R. Bachelor, Et Al T	M 12-13
Access Road "A" (2,595')	10.45
Access Road "B" (706')	1.19
Well Pad	5.09
Water Containment Pad	3.19
Excess/Topsoil Material Stockpiles	10.77
Total Affected Area	30.69
Total Wooded Acres Disturbed	28.96
Impacts to Edgel K. & Betty Baker Th	M 18-02
Well Pad	0.34
Total Affected Area	0.34
Total Wooded Acres Disturbed	0.34

Proposed Well Name	WV North NAD 27	WW North NAD 83	UTM (METERS) Zone 17	NAD 83 Lat & Long
Raines	N 299189.85	N 299223.46	N 4351356.70	LAT 39-18-41.7759
Unit 1H	E 1571267.35	E 1539826.42	E 498696.31	LONG -81-00-54.4397
Raines	N 299180.97	N 299214.58	N 4351354.01	LAT 39-18-41.6888
Unit 2H	E 1571271.94	E 1539831.01	E 498697.76	LONG -81-00-54 3793
Raines	N 299172.09	N 299205.70	N 4351351.33	LAT 39-18-41.6018
Unit 3H	E 1571276.54	E 1539835.60	E 498699.20	LONG -81-00-54.3190
Anderson	N 299163.20	N 299196.82	N 4351348.65	LAT 39-18-41.5148
Unit 1H	E 1571281.13	E 1539840.19	E 498700.64	LONG -81-00-54 2587
Anderson	N 299154.32	N 299187.93	N 4351345.96	LAT 39-18-41.4278
Unit 2H	E 1571285.72	E 1539844.78	E 498702.09	LONG -81-00-54.1984
Anderson	N 299145.44	N 299179.05	N 4351343.28	LAT 39-18-41.3408
Unit 3H	E 1571290.31	E 1539849.38	E 498703 53	LONG -81-00-54.1380
Well Pad Elevation	1,193.0			

BACHELOR EPHEMERAL STREAM IMPACT (LINEAR FEET)

Inlets/Outlets

Structures (LF)

0

0

Permanent Impacts

Culvert/

Fill (LF)

0

0

Stream and Impact Cause

Stream 3 (Water Containment Pad)

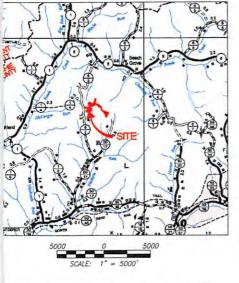
Stream 8 (Access Road "A")

Stream 9 (Access Road "A")

Stream 11 (Access Road "A")

Stream 14 (Stockpile "B")

Stream 16 (Access Road "A")



COUNTY ROAD MAP

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

54 0 0 0 0 0 0 8 8 19 16 M 1/00/17

Cofferdam/ E&S

Controls (LF)

25

0

Office of REPRODUCTION NOTE THESE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.

Temp. Impacts Temp. Disturb.

Distance to

L.O.D. (LF)

14

23

14

Total

(LF)

14

48

14 54

8

65

Environmental folection

Disturbance

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

