

west virginia department of environmental protection

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

Monday, July 31, 2017 WELL WORK PERMIT Horizontal 6A / Fracture

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for HILDRED UNIT 2H

47-033-05709-00-00

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: HILDRED UNIT 2H Farm Name: CORDER, GERALD AND LOUELLA

U.S. WELL NUMBER: 47-033-05709-00-00

Horizontal 6A / Fracture

Date Issued: 7/31/2017

Promoting a healthy environment.

API Number: 33-05709 F

PERMIT CONDITIONS

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

CONDITIONS

- 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.
- 2. 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.
- 3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 5. 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.
- 6. 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 <u>DEPOOGNotify@wv.gov</u>.
- 7. The entire well pad shall be bermed so as to prevent runoff from leaving the pad during drilling and completion operations, including a mountable berm at pad entrance.

WW-6B (04/15) API NO. 47- 033 - 05709

OPERATOR WELL NO. Hildred Unit 2H

Well Pad Name: Existing Corder East Pad

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

1) Well Operat	tor: Antero	Resources	Corporal	4945	07062	033-Harrison	Union	Big Isaac
				Ope	rator ID	County	District	Quadrangle
2) Operator's \	Well Numbe	r: Hildred Ur	nit 2H		_ Well Pa	d Name: Existin	ng Corder	East Pad
3) Farm Name	/Surface Ow	ner: Corder,	Gerald & Lo	ouella	Public Ro	ad Access: CR	30/1	
4) Elevation, c	urrent groun	nd: 1405'	Ele	evation	i, proposed	post-construction	n: 1405'	
5) Well Type	(a) Gas Other	X	_ Oil		Und	erground Storag	e	
	(b)If Gas	Shallow	X		Deep			< \(\)
		Horizontal	X		_			50W 12/7/2016
6) Existing Pac	i: Yes or No	Yes						12/7/2016
						and Expected Pro	and the second second	
Marcellus Sh	nale: 7469' T	VD, Anticipate	d Thicknes	ss- 50 f	eet, Associ	ated Pressure- 32	200#	
8) Proposed To	otal Vertical	Depth: 746	9' TVD					
9) Formation a	t Total Verti	cal Depth:	Marcellus					
10) Proposed T	otal Measur	ed Depth:	16,800' MD	(*Please	note: This v	vell has been drilled	. Actual Mea	asured Depth is 16,460')
11) Proposed H	Horizontal Le	eg Length: [8	3795'					
12) Approxima	ite Fresh Wa	iter Strata Dej	pths:	100'				
13) Method to	Determine F	resh Water D	epths: C	lark U	nit 1H (AF	1# 47-033-0571	0) on sar	ne pad
14) Approxima	ite Saltwater	Depths: 79	7', 900', 14	454'				
15) Approxima	ite Coal Sear	n Depths: 59	95', 666',	883'				
l6) Approxima	te Depth to	Possible Void	d (coal mir	ne, kar	st, other):	None Anticipate	ed	
17) Does Propo directly overlyi					es	No	X	
(a) If Yes, pro	ovide Mine I	nfo: Name:						
		Depth:						
		Seam:						
		Owner						

WW-6B (04/15)

API NO. 47- 033 _ 05709

OPERATOR WELL NO. Hildred Unit 2H
Well Pad Name: Existing Corder East Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	40'	40'	CTS, 38 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	361'	361'	CTS, 251 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2537'	2537'	CTS, 795 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	16,460'	16,460'	3304 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

50W 12/7/2016

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (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	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Leas-HPCZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

WW-6B (10/14)

API NO. 47-033 - 05709

OPERATOR WELL NO. Hildred Unit 2H

Well Pad Name: Existing Corder East Pad

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

This well has been drilled to TD - 16,460'. Antero is requesting to perforate, fracture the existing horizontal shallow well and complete Marcellus Shale.

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 11.02 existing acres

22) Area to be disturbed for well pad only, less access road (acres): 7.61 existing acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.

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

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

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

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

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

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

*Note: Attach additional sheets as needed.

NOV-21-2016 08/04/2017

Office of Oil & Gas

WW-6B (04/15) API NO. 47- 033 - 05709

OPERATOR WELL NO. Hildred Unit 2H

Well Pad Name: Existing Corder East Pad

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

) Well Operator: Antero Re	sources Corpor	494507062	033-Harrisor	Union	Big Isaac
Service supplied		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 📙	lildred Unit 2H	Well P	ad Name: Existing	ng Corder	East Pad
3) Farm Name/Surface Owner:	Corder, Gerald &	Louella Public Ro	ad Access: CR	30/1	
4) Elevation, current ground:	1405' E	levation, proposed	d post-construction	on: 1405'	· ·
5) Well Type (a) Gas X Other	Oil	Une	derground Storag	e	
(b)If Gas Sh	nallow X	Deep			52
Н	orizontal X				12/7/2016
6) Existing Pad: Yes or No Yes	es		4.4		12/7/2016
 Proposed Target Formation Marcellus Shale: 7469' TVD, 		장면 보이 그렇게 그 이 이번 때문에 없었다.	아이트 이 기계 경기 가입다. 이미		
3) Proposed Total Vertical Dep	oth: 7469' TVD				
) Formation at Total Vertical	Depth: Marcellu	S			
0) Proposed Total Measured I	Depth: 16,800' ME	(*Please note: This	well has been drilled	d. Actual Me	asured Depth is 16,46
1) Proposed Horizontal Leg L	Length: 8795'				
2) Approximate Fresh Water	Strata Depths:	100'			
3) Method to Determine Fresh	h Water Depths:	Clark Unit 1H (A	PI# 47-033-057	10) on sai	me pad
4) Approximate Saltwater De	pths: 797', 900',	1454'			
5) Approximate Coal Seam D	epths: 595', 666'	, 883'			
6) Approximate Depth to Pos	sible Void (coal m	ine, karst, other):	None Anticipat	ed	
(7) Does Proposed well location directly overlying or adjacent to		Yes	No No	x	
(a) If Yes, provide Mine Info	: Name:				
	Depth:				
	Seam:		- Alexander	RECEI	VED
	Owner:		Offi	ce of Oil	and Gas
				DEC 19	2010

WV Department of Environmental Plage 1 of 3 08/04/2017

WW-6B (04/15) API NO. 47- 033 - 05709

OPERATOR WELL NO. Hildred Unit 2H

Well Pad Name: Existing Corder East Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
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Intermediate							
Production	5-1/2"	New	P-110	20#	16,460'	16,460'	3304 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

50W 12/12016

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Lead-H/POZ & Tall - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							100

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	Office of City and

DEC 1 9 2016

WV Department of Environmental Description

WW-6B (10/14)

API NO. 47- 033 - 05709

OPERATOR WELL NO. Hildred Unit 2H

Well Pad Name: Existing Corder East Pad

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 11.02 existing acres
- 22) Area to be disturbed for well pad only, less access road (acres): 7.61 existing acres
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Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.

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

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51 Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

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

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

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

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

DEC 1 9 2016



^{*}Note: Attach additional sheets as needed.

33-05709F HILDRED UNIT 2H (CORDER EAST PAD)- AREA OF REVIEW 35-8-5.11 PAGE 1 47-033-05709 Hildred Unit 24 47033022330000 47033028820000 Antero Received Office of Oil & Gas Hildred Unit 2H - AOR NOV 21 2016 FEET WELL SYMBOLS 08/04/2017 November 12, 2016

HILDRED UNIT 2H (CORDER EAST PAD)- AREA OF REVIEW 35-8-5.11 PAGE 2

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	9	DLEV_GR	TD (SSTVD)	Perforated Interval (shallowest, deepast)	Perforated Formation(s)	Producible Formation(s) not perf'd
47033022330000	GCHOLSON HOWARD	1-10,-259	PETROLEUM SRVC PRTKR	DORAN ASSOC	5625	1241	-4384	5418	Alexander	Fifth, Speechley, Balltown, Benson
47033028820000	ENDERSON ELENORE	S-460	CONSOL GAS COMPANY	SCOTT JAMES F	5462	1197	-4265	4908-4923	Senson	Fifth, Speeckley, Balltown, Alexander

Received
Office of OH & Gas
NOV 2 1 2016

WW-9 (4/16)

API Number 47	-	033	-	05709	
Operator	r's	Well No.	1	Hidred Unit 2H	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name Antero Resources Corporation OP Code 494507062
Watershed (HUC 10) Turtletree Fork of Tenmile Creek Quadrangle Big Isaac
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No Vo
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number *UIC Permit # will be provided on Form WR-34
Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34 Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
Off site Disposal (Supply form w w-9 for disposal focation) (Meadownii Landfiil Permit #SWF-1032-98) Other (Explain Northwestern Landfiil Permit #SWF-1025/ WV0109410
Will closed loop system be used? If so, describe: Yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Dust/Bert Foom, Production - Water Based Med
-If oil based, what type? Synthetic, petroleum, etc. N/A
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), 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 Company Official Title Environmental & Regulatory Manager
Subscribed and sworn before me this 18th day of NOVLM but, 20_16
Sundun Hubblic Samantha Marsh Notary Public State Of COLORADO
My commission expires 2 20 20 17 NOTARY ID 20134079428

Antero Resources Corp	oration		
Proposed Revegetation Treatment:	Acres Disturbed 11.02 (e	xisting) acres Prevegetation pH	
Lime 2-4	Tons/acre or to correct to pH	6.5	
Fertilizer type Hay or stra	w or Wood Fiber (will be used v	where needed)	
Fertilizer amount 500	lb.	s/acre	
Mulch 2-3	Tons/a	cre	
Existing Acc	ess Road A & Drill Pad (7.61) + Access	Road B & Water Tank Pad (3.41) = 11.02 Existing A	cres
	Seed	Mixtures	
Tempor	ary	Permaner	nt
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	45	Tall Fescue	45
Perennial Rye Grass	20	Perennial Rye Grass	20
*or type of grass seed requeste	ed by surface owner	*or type of grass seed request	ed by surface owner
Maps(s) of road, location, pit and p provided). If water from the pit wil	I be land applied, include din	ntion (unless engineered plans including nensions (L x W x D) of the pit, and directly and direc	g this info have been mensions (L x W), and
Maps(s) of road, location, pit and p provided). If water from the pit wil acreage, of the land application are Photocopied section of involved 7.5	l be land applied, include din a. 5' topographic sheet.	ation (unless engineered plans including nensions (L x W x D) of the pit, and directly and direc	g this info have been mensions (L x W), and
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911 Address 1734 Turtle Tree Fork Road Salem, WV 26426

12/7/2016

Well Site Safety Plan Antero Resources

Well Name: Hildred Unit 1H & 2H, Truman Unit 1H & 2H, Cleta Unit

1H & 2H, Maude Unit 1H & 2H, Opie Unit 1H & 2H,

Clark Unit 1H & Oneacre Unit 1H

Pad Location: CORDER EAST PAD

Harrison County/Union District

GPS Coordinates:

Entrance - Lat 39°13′24.36″/Long -80°33′23.67″ (NAD83)

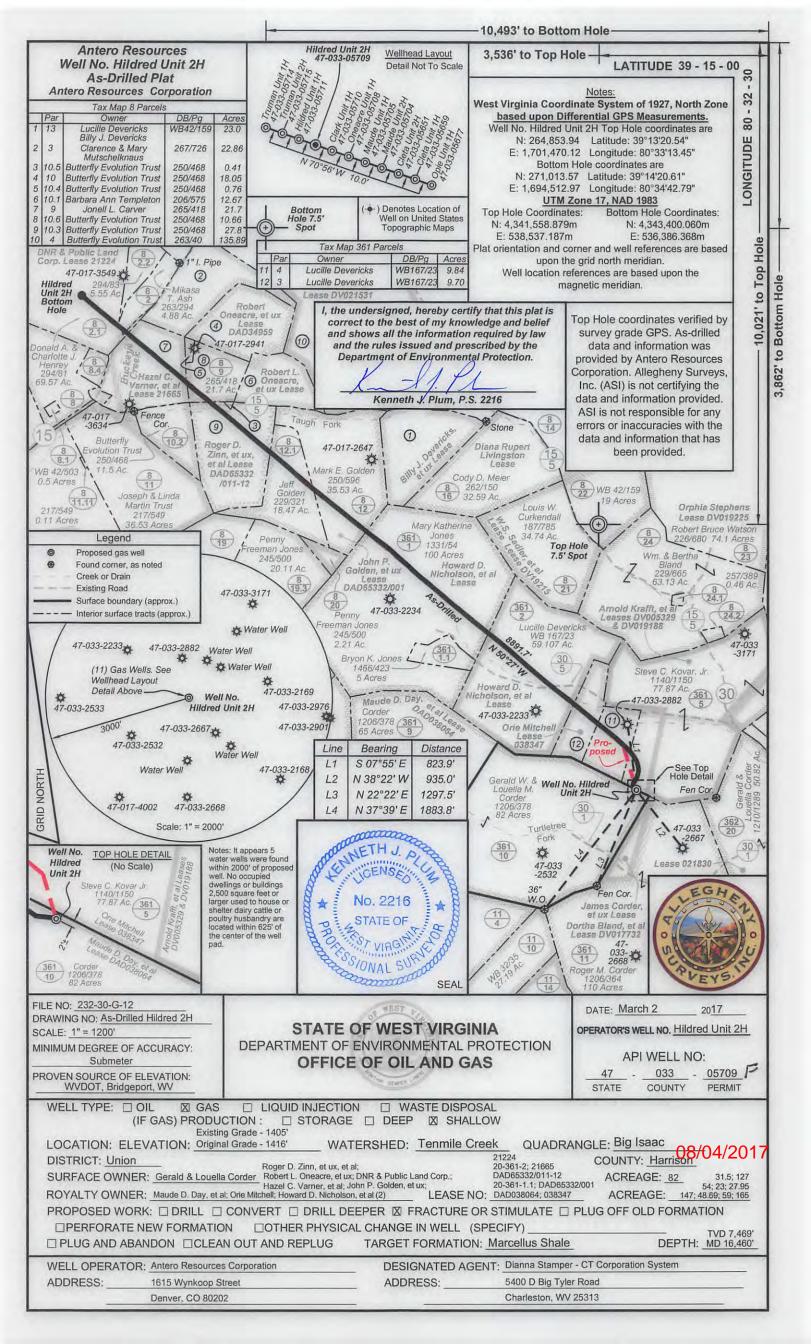
Pad Center - Lat 39°13′20.60″/Long -80°33′12.24″ (NAD83)

Driving Directions:

From the intersection of I-50 with old route 50 head to downtown Salem for 0.2 miles. Take a slight right onto County Rd 50/73/Main 51/0ld Route 50 continue to follow County Rd 50/73/Main St. for 1.2 miles. Continue onto South St for 0.2 miles. Continue onto Patterson Rd for 0.2 miles. Continue onto Co Route 29/Patterson Fork Rd for 0.2 miles. Continue onto Salem Country Club Rd for 0.4 miles. Salem Country Club Rd turns slightly right and becomes Co Route 29/Patterson Fork Rd for 1.5 miles. Slight left onto Co Route 15/Sherwood-Greenbrier Rd for 1.4 miles. Tum left onto Traugh Fork Rd for 1.8 miles. Continue onto Co Route 30/Turtletree Fork Rd for 0.5 miles. Tum right to stay on Co Route 30/Turtletree Fork Rd for 161'. Slight right onto Co Route 3011/Turtletree Fork Rd for 0.6 miles. Lease road will be on the right.

Alternate Route: Head west on US-50 for 10.5 miles. Turn lefts onto Sycamore Rd for 0.5 miles. Turn right onto Shaws Run Rd for 1.5 miles. Slight left onto Jarvisville-Makin Rd for 1.9. Continue onto Jarvisville Rd for 1.9 miles. Turn right onto Co Rte 31/Jarvisville Rd for 2.6 miles. Slight right onto Turtletree Fork Rd for 1.8 miles. Turn left to stay on Turtletree Fork Rd, the access rode will be on your right.

EMERGENCY (24 HOUR) CONTACT 1-800-878-13



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, 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
Maude Day, et al Lease DAD038064			
Maude Day, et al	Consolidated Gas Supply Corp.	1/8	1048/0348
Consolidated Gas Supply Corp.	Consolidated Gas Transmission Corp.	Assignment	1136/0250
Consolidated Gas Transmission Corp.	CNG Development Company	Assignment	1143/0921
CNG Development Company	CNG Producing Company	Merger	Exhibit 2
CNG Producing Company	Dominion Exploration & Production, Inc.	Amended Certificate of Authority	AOI 0058/0366
Dominion E&P, Inc.	Antero Resources Appalachian Corporation	Partial Assignment of Oil & Gas Leas	1423/1068
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Orie Mitchell, et ux Lease 038347			
Orie Mitchell, et ux	James F. Scott, et al	1/8	1123/0760
James F. Scott, et al	ConVest 1982-B Income Program	Assignment	1128/0587
ConVest 1982-B Income Program	ConVest Production Company	Assignment	1151/0943
ConVest Production Company	BNG, Inc.	Assignment	1181/0993
BNG, Inc.	Stonewall Gas Company	Assignment	1257/0413
Stonewall Gas Company	Dominion Appalachian Development, Inc.	Merger	Exhibit 3
Dominion Appalachian Development, Inc.	Dominion Appalachian Development LLC	Certificate of Conversion	Exhibit 4
Dominion Appalachian Development LLC	Antero Resources Appalachian Corporation	Partial Assignment of Oil & Gas Leas	1423/1068
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Howard D. Nicholson, et al Lease			
Howard D. Nicholson, et al	Doran & Associates, Inc.	1/8	1084/0203
Doran & Associates, Inc.	Cabot Oil & Gas Corporation	Assignment	1193/0361
Cabot Oil & Gas Corporation	EnerVest Appalachia, LP	General Conveyance	1314/1012
EnerVest Appalachia, LP	CGAS Properties, L.P.	Assignment	1412/0421
CGAS Properties, L.P.	Antero Resources Appalachian Corporation	Partial Assignment of Oil & Gas Lease	1484/0957
Antero Resources Appalachian Corporation	Antero Resources Corportation	Name Change	Exhibit 1
Howard D. Nicholson, et al Lease			
Howard D. Nicholson, et al	Doran & Associates, Inc.	1/8	1084/0197
Doran & Associates, Inc.	Cabot Oil & Gas Corporation	Assignment	1193/0361
Cabot Oil & Gas Corporation	EnerVest Appalachia, LP	General Conveyance	1314/1012
EnerVest Appalachia, LP	CGAS Properties, L.P.	Assignment	1412/0421
CGAS Properties, L.P.	Antero Resources Appalachian Corporation	Partial Assignment of Oil & Gas Lease	1484/0957
Antero Resources Appalachian Corporation	Antero Resources Corportation	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.

**CONTINUED ON NEXT PAGE

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

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- (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
John P. Golden, et ux Lease DAD65332/001			
John P. Golden & Mary V. Golden	James F. Scott	1/8	0113/0337
James F. Scott	Convest 1980-II Energy Income Program	Assignment	0121/0556
Convest 1980-II Energy Income Program	Convest Prodcution Company	Assignment	0141/0638
Convest Prodcution Company	BNG, Inc.	Assignment	0150/0596
BNG, Inc.	Stonewall Gas Company	Assignment	0173/0329
Stonewall Gas Company	Dominion Appalachian Development, Inc.	Merger	Exhibit 3
Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Certificate of Conversion	Exhibit 4
Dominion Appalachian Development, LLC	Antero Resources Appalachian Corporation	Partial Assignment of Oil & Gas Lease	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Roger D. Zinn, et ux, et al Lease DAD65332			
Roger D. Zinn, et al	James F. Scott, et al	1/8	0113/0321
James F. Scott, et al	Convest Production Company	Assignment	0150/0582
Convest Production Company	BNG, Inc.	Assignment	0150/0596
BNG, Inc.	Stonewall Gas Company	Assignment	0173/0329
Stonewall Gas Company	Dominion Appalachian Development, Inc.	Merger	Exhibit 3
Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Certificate of Conversion	Exhibit 4
Dominion Appalachian Development, LLC	Antero Resources Appalachian Corporation	Partial Assignment of Oil & Gas Lease	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Roger L. Zinn, et ux Lease			
Robert L. & Patricia D. Oneacre, h/w	James F. Scott, et al	1/8	0114/0638
James. F. Scott, et al	Convest Production Company	Assignment	0150/0582
Convest Production Company	BNG, Inc.	Assignment	0150/0596
BNG, Inc.	Stonewall Gas Company	Assignment	0173/0329
Stonewall Gas Company	Dominion Appalachian Development, Inc.	Merger	Exhibit 3
Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	Certificate of Conversion	Exhibit 4
Dominion Appalachian Development, LLC	Antero Resources Appalachian Corporation	Partial Assignment of Oil & Gas Lease	0230/0113
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Hazel C. Varner, et al Lease 21662			
Hazel Varner	Clarence W. Mutschelknaus, et al	1/8	0153/0101
Clarence W. Mutschelknaus, et al	Bluestone Energy Partners	Assignment	30CB VBV0244
Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corp.	Affidavit Regarding Merger	Hand Birds Boggs
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0153/0101 Received 244 Office of Exchylist

^{*}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.

Operator's Well No.	Hildred Unit 2H
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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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
DNR & Public Land Corp. L	Lease 21224			
	Department of Natural Resources of the State of West Virginia and the Public Land Corporation of the State of West Virginia	Clarence W. Mutschelknaus	1/8	0145/0025
Claren	nce W. Mutschelknaus, Clarence W. Mutschelknaus, Jr. & Helen Suzanne Osborne	Antero Resources Appalachian Corp.	Assignment	0262/0074
	Antero Resources 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 to Gas Gas

Well Operator:	Antero Resources Corp	oration	July - 4 3018
By:	Kevin Kilstrom	ledition	NOV 2 1 5018
Its:	VP of Production		

Page 1 of

FORM WW-6A1 EXHIBIT 1

FILED

IN IN

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

FILE ONE ORIGINAL (Two if you want a filed stamped copy returned to you) FEE: \$25.00 APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

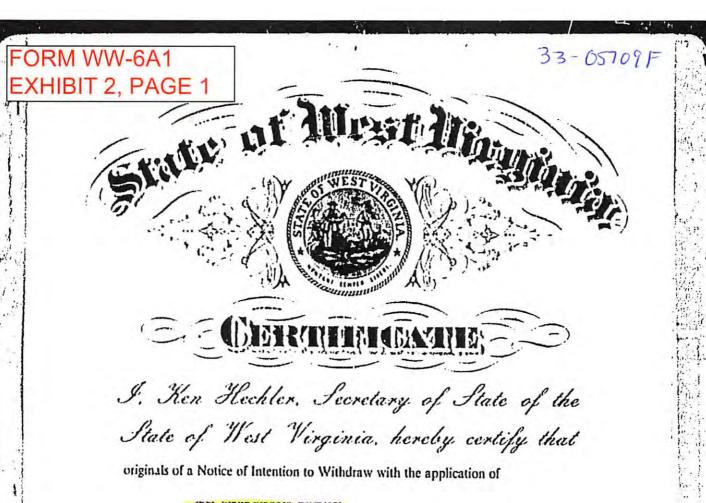
Penney Barker, Manager
IN THE OFFICE OF Corporations Division
SECRETARY OF STATE Fax: (304)558-8381
Website: www.vysos.com
E-mail: business@wysos.com

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

and the form and amended Certificate of Authority and submits the following statement:

	applies for an Amended Cortificate of Aut	thority and a	ubmits the following statement:		
1.	Name under which the corporation was authorized to transact business in WV:	Antero Re	sources Appalachian Corporatio	<u>n</u>	
2.	Date Certificate of Authority was issued in West Virginia:	6/26/2008		-	
3.	Corporate name has been changed to: (Attach one <u>Certified Conv of Name Change</u> as filed in home State of incorporation.)	Antero Re	Bouross Corporation		
4.	Name the corporation elects to use in WV: (due to home state name not being available)	Antero Re	sources Corporation		117
5.	Other amendments: (attach additional pages if necessary)				
6.	Name and phone number of contact person. (the filing, listing a contact person and phone num document.)	This is opti abor may av	onal, however, if there is a probl old having to return or reject the	em with	
	Alvyn A. Schopp		(303) 357-7310	9-	
7.	Contact Name Signature information (See below *Innortant I	Legal Notic	Phone Number Regarding Signature):		
	Print Name of Signer: Aboyn A. Schopp		Title/Capacity: Authorized Pe	atsou	
	Signature: Hz. Hochoff		Date: June 10, 2013	- <u> </u>	
Any to th	pertant Lesal Notice Repartiting Standard: For West Virgin person who signs a document he or she knows is false in any e secretary of state for filing is guilty of a misdementer and, sand dollars or confined in the county or regional juli not mo	upon convicti	ent and knows that the document is to h	a dallianed	olved Oli R Ga
Porm	CP-4 Issaed by the Office	of the Secretary o	of State -	Pac Office of	2 1 2018

W\1012 - 0446/2011 Webin Kkmvr Odline



CIC DEVELOPMENT COMPANY

for a Certificate of Withdrawal from West Virginia, signed and verified, as required by the provisions of Chapter 31, Article 1, Section 60 of the West Virginia Code are filed in my office and conform to law. Therefore, I issue this

CERTIFICATE OF WITHDRAWAL

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

Given under my hand and the

Great Seal of the State of

West Virginia, on this

TENIN day of

JULY 19 91

Secretary of State.

Office of OII & Cas NOV 2.1 2016

08/04/201

KEN HECHLER



TO BE FILED IN DUFLICATE CRIGINALS

> HLED JUL 1 0 1991 OFFICE OF

RY OF STATE WEST VIRGINIA

APPLICATION FOR CERTIFICATE OF WITHDRAWAL

OF CNG Development Company

Company	NG Development	corporation is:	The name of the
	Mare	the laws ofDe	incorporated under
	WIRGINIA.	G BUSINESS IN WE	S NOT TRANSACTIN
	opt service of process, a on any course of action sact business in West etary of State of West Vir	West Virginia to ac proceeding based us as authorized to tri- ce thereof on the Se	registered agent in any action, suit or jet the corporation we corporation by servi
y mail a copy of any process agains	Secretary of State may	ddress to which th	The post-office a
er, 1450 Poydras Street, in: Corporate Secretary	ompany, CNG Towe	ew Orleans, L	corporation is
the item but by classes not value of	h it has authority to iss within a class, as of this	imber of shares wh	The aggregate nu
PAR VALUE/NO PAR	SERIES	CLASS	MBER OF SHARES
\$100		Common	,400,000
es, par value of shares, shares withou	nres, item 2ed by classes date is	mber of its issued s ithin a class, as of th	The aggregate nu and series, if any, w
PAR VALUE/NO PAR	EP ES	CLASS	MBER OF SHARES
S100 Office		Common	,168,410

FORM WW-6A1 EXHIBIT 2, PAGE 3

33-05709 [

IBIT Z, PA	1 Ihrou	gh CHG Producing Company)
	opment Company (info	
corporate name		
President/Vice Presi	dent	D. M. L. C. L. St.
Louis	iana	
Parish Onle		
TXX #1 81	nes E. Hright, Jr.	to the District do
I Jam	les c. Arryne, or.	464×
nerety certify that	D. Malcoln coms, o	the Secretary
	- /· · · · · · · · · · · · · · · · · · ·	other
		of CHG Producing Company
¥ 1		corporate name
office		ig as the upt and deed of the corporation.
appeared tier ive	We to T thek's King and a	Notify Public
	2	- J
(notary sea		<i>[</i>
My commission	nerpres it death	

FORM WW-6A1 EXHIBIT 3, PAGE 1

COMMONWEALTH OF VIRGINIA STATE CORPORATION COMMISSION

P. O. Box 1197, 1300 East Main Street Richmond, VA 23209

ARTICLES OF MERGER

DOMINION APPALACHIAN DEVELOPMENT, INC.

a Virginia corporation

STONEWALL GAS COMPANY

a Virginia corporation

The undersigned corporations, pursuant to Title 13.1, Chapter 9, Article 12 of the Code of Virginia, hereby execute the following Articles of Merger and set forth:

ARTICLE I

The Plan of Merger (the "Plan") made and entered into as of the 31st day of August, 1998 by and between the undersigned corporations and attached hereto as Exhibit A provides for the merger of Stonewall Gas Company into Dominion Appalachian Development, Inc. The Plan constitutes the "Plan of Merger" for the purposes of Article 12 of the Virginia State Corporation Act.

ARTICLE II

The Plan was adopted by the written consent of the sole shareholder of Stonewall Gas Company.

ARTICLE III

The Plan was adopted by the written consent of the sole shareholder of Dominion Appalachian Development, Inc.

ARTICLE IV

These Articles of Merger shall become effective on September 30, 1998.

U-DOMRES VAARTICL MRG

Received Gas Office of Oil & Gas NOV 2.1 2016

FORM WW-6A1 EXHIBIT 3, PAGE 2

IN WITNESS WHEREOF. Dominion Appalachian Development, Inc. and Stonewall Gas Company have caused these Articles of Merger to be executed as of the 51 day of August, 1998...

DOMINION APPALACHIAN

DEVELOPMENT, INC.,
a Virginia corporation

Name: Themes A Cheaning

Its: VICE CHEMINAN

STONEWALL GAS COMPANY, a Virginia corporation

Name: G. E. Luke, Jr.

Its: Sr. Vice Pies dest

EXHIBIT A

PLAN OF MERGER OF

STONEWALL GAS COMPANY

INTO

DOMINION APPALACHIAN DEVELOPMENT, INC. 90

Stonewall Gas Company, a Virginia corporation ("Stonewall") shall, upon Section 1. the issuance of a certificate of merger by the State Corporation Commission of Virginia (the "Effective Time of the Merger"), be merged into Dominion Appalachian Development, Inc. ("DADI"), which shall be the Surviving Company. Each of Stonewall and DADI are wholly owned subsidiaries of Dominion Reserves, Inc., a Virginia corporation (the "Sole Stockholder").

Conversion of Stock. At the Effective Time of the Merger: Section 2.

- Each share of DADI Common Stock outstanding immediately prior to the (i) Effective Time of the Merger shall continue unchanged is a share of Common Stock of the Surviving Company.
- Each share of Stonewall Common Stock outstanding immediately prior to (ii) the Effective Time of the Merger shall be canceled, the transfer books of Stonewall shall be closed, and no further transfer of Stonewall Common Stock shall be permitted.
- Articles of Incorporation, Bylaws and Directors of the Surviving Section 3. Company. At the Effective Time of the Merger, there shall be no change caused by the Merger in the Articles of Incorporation (except any change caused by the filing of Articles of Merger relating to the Merger), Bylaws, or Board of Directors of the Surviving Company.

Conditions to Merger. Consummation of the Merger is subject to the Section 4. following conditions:

- The approving vote of the Sole Stockholder of the outstanding shares of (i) Stonewall Common Stock.
- The approving vote of the Sole Stockholder of the outstanding shares of Received (ii)
- The approval of the Merger by the State Corporation Commission of 21 2016 Virginia. (iii)

FORM WW-6A1 EXHIBIT 3, PAGE 4

Section 5. Effect of the Merger. The Merger, upon the Effective Time of the Merger, shall have the effect provided by Section 13.1-721 of the Code of Virginia.

Office of Oil & Gas

IN WITNESS WHEREOF, this Plan of Merger has been duly executed as of this 31 Day of August, 1998.

XHIBIT 3, PAGE 5

DOMINION APPALACHIAN DEVELOPMENT. INC. a Virginia corporation

Name: Themas N. Chearing
Its: Vice Chearing

STONEWALL GAS COMPANY a Virginia corporation

Liwebb energy o&g dadi/stonewallplan.wpd

FORM WW-6A1 EXHIBIT 3, PAGE 6

0452033 - 4

COMMONWEALTH OF VIRGINIA STATE CORPORATION COMMISSION

September 30, 1998

The State Corporation Commission finds the accompanying articles submitted on behalf of

DOMINION APPALACHIAN DEVELOPMENT, INC.

to comply with the requirements of law. Therefore, it is ORDERED that this

CERTIFICATE OF MERGER

be issued and admitted to record with the articles in the office of the Clerk of the Commission. Each of the following:

STONEWALL GAS COMPANY

is merged into DOMINION APPALACHIAN DEVELOPMENT, INC., which continues to exist under the laws of VIRGINIA with the name DOMINION APPALACHIAN DEVELOPMENT, INC.. The existence of each non-surviving entity ceases, according to the plan of merger.

The certificate is effective on September 30, 1998.

STATE CORPORATION COMMISSION

Commissioner

MERGACPT CIS20436 98-09-29-0108 Office of Oll & Gas





I, Betty Ireland, Secretary of State of the State of West Virginia, hereby certify that

DOMINION APPALACHIAN DEVELOPMENT, INC.

(a Virginia corporation)

filed an application for Conversion in my office as required by the provisions of the West Virginia Code and was found to conform to law.

Therefore, I issue this

CERTIFICATE OF CONVERSION

converting the corporation to

DOMINION APPALACHIAN DEVELOPMENT, LLC

(a Virginia Limited Liability Company)



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

February 23, 2006

Received Setty Telanol Oli & Gas

Secretary of State

08/04/2017



Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310

Fax 303.357.7315

November 17, 2016

West Virginia Department of Environmental Protection

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

RE: Hildred Unit 2H (API # 47-033-05709)

Quadrangle: Big Isaac

Harrison County/ Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Hildred Unit 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Hildred Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Tim Rady

Sincerely,

Director, Land Operations- Marcellus

Received
Office of Oil & Gas
NOV 21 2016

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

Date of Notic	e Certification: 11/17/2016		API No. 47		_ 0570	
	· · · · · · · · · · · · · · · · · · ·		Operator's	Well I	No. Hildred	d Unit 2H
		•	Well Pad N	lame:	Existing (Corder East Pad
Notice has b						
	e provisions in West Virginia Code §	22-6A, the Operator has provi	ided the req	uired p	arties w	ith the Notice Forms listed
	tract of land as follows:		. .			
State:	West Virginia	III (A) (X) A I X 4	Easting:	538537		
County:	Harrison		Northing:	434155		
District:	Union	Public Road Acce		CR 30/		I avalla
Quadrangle: Watershed:	Big Isaac Tenmile Creek	Generally used far	rm name:	Corder,	Gerald & l	Louella
watersneg:	Terimile Creek			*		
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sign the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen one § 22-6A-11(b), the applicant shall to have been completed by the applicant	ped in subdivisions (1), (2) an ction sixteen of this article; (ii) rvey pursuant to subsection (a f this article were waived in vender proof of and certify to the	nd (4), subset that the rec a), section to writing by t	ection quirement en of the	(b), sectent was of the contract of the contra	tion ten of this article, the deemed satisfied as a result ele six-a; or (iii) the notice ner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY		is Notice Co	ertifica	tion	OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS				RECEIVED/ NOT REQUIRED
☐ 2. NO	FICE OF ENTRY FOR PLAT SURV	'EY or 🔳 NO PLAT SURVE	Y WAS CO	ONDUC	CTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR P WAS CONDUCTED or				□ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFAC	CE OW	NER	
■ 4. NO1	ΓICE OF PLANNED OPERATION					☐ RECEIVED
■ 5. PUB	BLIC NOTICE					☐ RECEIVED
■ 6. NO	FICE OF APPLICATION					☐ RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

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

 Well Operator:
 Antero Resources Corporation
 Address:
 1615 Wynkoop Street

 By:
 Kevin Kilstrom
 Denver, CO 80202

 Its:
 VP of Production
 Facsimile:
 303-357-7315

 Telephone:
 303-357-7310
 Email:
 asteele@anteroresources.com

SAMANTHA MARSH

NOTARY PUBL!C

STATE OF COLORADO

NOTARY ID 20134079428

MY COMMISSION EXPIRES DECEMBER 20, 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 deprivacyofficer@wv.gov.

Office of Oll 2 2016

WW-6A (9-13)

API NO. 47-_033 _ 05709

OPERATOR WELL NO. Hildred Unit 2H
Well Pad Name: Existing Corder East Pad

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

Noti	ce Time Requiremen	nt: notice shall be prov	vided no later than the filing date of permit application.
	e of Notice: 11/18/2016 ce of:	Date Permit Applica	ation Filed: 11/18/2016
7	PERMIT FOR ANY WELL WORK		CICATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursua	nt to West Virginia C	Code § 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
certification regis sediments sediments the sediments operated more well important important properties. The sediments operated important properties and sediments operated important properties. The sediments operated important properties operated in the sediments operated in th	ficate of approval for ti- tered mail or by any ment control plan requi- urface of the tract on wand gas leasehold being ribed in the erosion and ator or lessee, in the eve- e coal seams; (4) The of work, if the surface tra- bundment or pit as desc a water well, spring of ide water for consump osed well work activity ection (b) of this section ds of the sheriff requi- ision of this article to to the R. § 35-8-5.7.a requi-	the construction of an interthod of delivery that referred by section seven of which the well is or is produced by the proped sediment control plan went the tract of land on where of record of the section is estimated in section nine of record water supply source lotton by humans or dome by is to take place. (c)(1) on hold interests in the level to be maintained purche contrary, notice to a fires, in part, that the operation of the section of the section of the level to be maintained purche contrary, notice to a fires, in part, that the operation of the section of the s	an the filing date of the application, the applicant for a permit for any well work or for a appoundment or pit as required by this article shall deliver, by personal service or by equires a receipt or signature confirmation, copies of the application, the erosion and this article, and the well plat to each of the following persons: (1) The owners of record of toposed to be located; (2) The owners of record of the surface tract or tracts overlying the osed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or surface tract or tracts overlying the oil and gas leasehold being developed by the proposed placement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to cated within one thousand five hundred feet of the center of the well pad which is used to estic animals; and (6) The operator of any natural gas storage field within which the lf more than three tenants in common or other co-owners of interests described in ands, the applicant may serve the documents required upon the person described in the resuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. erator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any and water testing as provided in section 15 of this rule.
	••		&S Plan Notice
	JRFACE OWNER(s) le: Please see attachn		☑ COAL OWNER OR LESSEE Name: PLEASE SEE ATTACHMENT
			
Nam	e.		COAL OPERATOR
			-
			Address:
		(Road and/or Other D	isturbance)
	e: PLEASE SEE ATTACHN		☑ WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE SPRING OR OTHER SUPPLY SOURCE SPRING OR OTHER SUPPLY SOURCE SPRIN
Ada			
Nam			Address:
Add	ress:		
			OPERATOR OF ANY NATURAL GAS STORAGE FIELD
_	• •	(Impoundments or Pit	s) Name: Receive & G
Nam	ie:		Address:
			S) OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address: *Please attach additional forms if necessary *Please attach additional forms if necessary

API NO. 47-033 - 05709

OPERATOR WELL NO. Hildred Unit 2H

Well Pad Name: Existing Corder East Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pail if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31 1012 report to the Legislature on the noise, light, dust and volatile organic compounds. 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 section well location restrictions regarding occupied dwelling structures pursuant to this section. the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

- 05709 API NO. 47-033

OPERATOR WELL NO. Hildred Unit 2H Well Pad Name: Existing Corder East Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE

Charleston, WV 25304
(304) 926-0450

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

API NO. 47- 033 -

3 _ 05709

OPERATOR WELL NO. Hildred Unit 2H

Well Pad Name: Existing Corder East Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

Received Office of Oil & Gas NOV 2 1 2016 WW-6A (8-13)

API NO. 47-033 - 05709 47-033-05709

OPERATOR WELL NO. Hildred Unit 2H
Well Pad Name: Existing Corder East Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Lanail: asteele@anteroresources.com

Address: 1615 Wynkoop Street
Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

SAMANTHA MARSH
NOTARY PUBL!C
STATE OF COLORADO
NOTARY ID 20134079428
MY COMMISSION EXPIRES DECEMBER 20, 2017

Subscribed and sworn before me this 18th day of MV Mber 2014

Notary Public

My Commission Expires 12/20/2017

WW-6A Notice of Application Attachment (CORDER EAST PAD):

List of Surface Owner(s) with Proposed Disturbance associated with Corder East Well Pad:

WELL PAD – All owners were notified of all well work permit applications, and have executed signed Surface Use Agreements with Antero Resources Corporation.

TM 361 PCL 4

Owner: Dina Hanna, et al

*Administratrix of Lucille Deverics Estate

Address: PO Box 874

Jane Lew, WV 26378

TM 361 PCL 5

Owner: Steve C. Kovar, Jr.

Address: 2203 Turtletree Fork Road

Bristol, WV 26426

2nd Address: RR 2 Box 190

Bristol, WV 26426

TM 361 PCL 10

Owner: Gerald W. & Louella M. Corder

Address: 58 Blackberry Hollow Rd

Bristol, WV 26426

2nd Address: RR 2 Box 174

Bristol, WV 26426

3rd Address: 600 Turtletree Fork Road

Bristol, WV 26426

TM 361 PCL 11

Owner: Roger M. Corder

Address: 553 Blackberry Hollow Rd

Bristol, WV 26426

2nd Address: RR 2 Box 187

Bristol, WV 26426

Received
Office of Oil & Gas
NOV 21 2016

WW-6A Notice of Application Attachment (CORDER EAST PAD):
List of Surface Owner(s) with Proposed Disturbance associated with Corder East
Well Pad:

ROAD AND/OR OTHER DISTURBANCE – All owners have executed signed Surface Use and/or Road Agreements with Antero Resources Corporation. However, they were only notified if their tracts were overlying the oil and gas leasehold being developed by the proposed well work.

TM 361 PCL 2, 3

Owner: Dina Hanna, et al (ON LEASE)

*Administratrix of Lucille Deverics Estate

Address: PO Box 874

Jane Lew, WV 26378

TM 361 PCL 10

Owner: Gerald W. & Louella M. Corder Address: 58 Blackberry Hollow Rd

Bristol, WV 26426

2nd Address: RR 2 Box 174

Bristol, WV 26426

3rd Address: 600 Turtletree Fork Road

Bristol, WV 26426





WW-6A Notice of Application Attachment (CORDER EAST PAD):

Corder East Well Pad:

COAL OWNER OR LESSEE

Owner: Consolidation Coal Company

CONSOL Energy, Inc. - CNX Center

Engineering & Operations Support - Coal, ATTN: Analyst

Address: 1000 CONSOL Energy Dr.

Canonsburg, PA 15317

Owner: Anker Energy Corporation, Wolf Run Mining Company

c/o Corporation Service Center

Address: 99 Edmiston Way

Buckhannon, WV 26201

Owner: International Coal Group, Inc.

c/o Corporation Service Center

Address: 300 Corporate Center Dr.

Scott Depot, WV 25560

Owner: Patriot Mining Company

c/o Corporation Service Center

Address: 2708 Cranberry Sq.

Morgantown, WV 26508

Owner: Anker Energy Corporation, Hunter Ridge Coal Company

c/o Corporation Service Center

Address: 2708 Cranberry Sq.

Morgantown, WV 26508

WATER SOURCE OWNERS - Within 1500'

*NOTE: On attached water well map 1 other water source is identified, but it is located greater than 1500' from the subject well pad location.

Owner: Roger M. Corder

Address: 553 Blackberry Hollow Rd

Bristol, WV 26426

2nd Address: RR 2 Box 187

Bristol, WV 26426

Office of Oil & Gas

WW-6A Notice of Application Attachment (CORDER EAST PAD):

WATER SOURCE OWNERS - Within 1500' (cont.)

Owner: Address: Lorena Krafft, et al 895 Sherwood Dr.

Elyria, OH 44035

Owner:

Steve C. Kovar, Jr. (2 Water Sources)

Address:

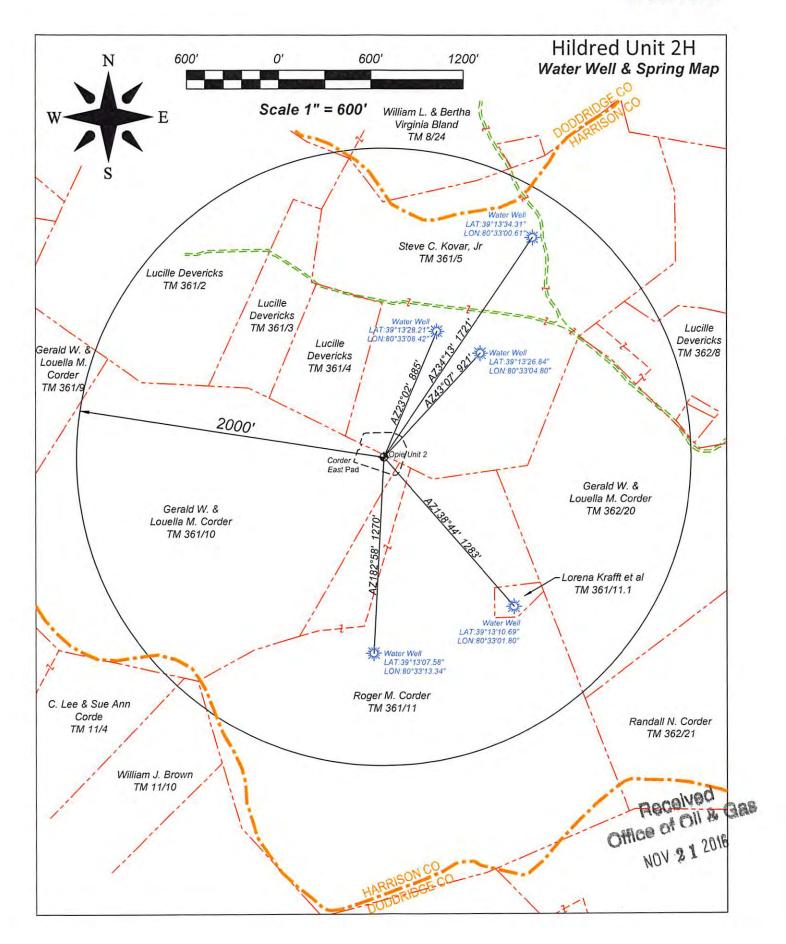
2203 Turtletree Fork Rd.

Bristol, WV 26426

2nd Address: RR 2 Box 190

Bristol, WV 26426

Received Gas NOV 21 2016



Operator Well No. Hildred Unit 2H Multiple Wells on Corder East Pad 47-033-05709 F

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

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

Date of Not	e Requirement: Notice shall be provided a ice: 11/08/2016 Date Pe	rmit Application Filed: 11/18/2016	ретик аррисатон.
Delivery m	ethod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIV		QUESTED	
receipt requited drilling a horoid of this subsection rand if available	W. Va. Code § 22-6A-16(b), at least ten da ested or hand delivery, give the surface ow orizontal well: <i>Provided</i> , That notice giver ection as of the date the notice was provide may be waived in writing by the surface ow able, facsimile number and electronic mail and	mer notice of its intent to enter upon the pursuant to subsection (a), section ted to the surface owner: <i>Provided, howerer</i> . The notice, if required, shall included address of the operator and the operator	the surface owner's land for the purpose of the nof this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number,
	ereby provided to the SURFACE ON SE SEE ATTACHMENT		
	SE SEE ATTACHMENT	Name:	
riddiess.		71dd1035.	
State: County:	West Virginia Harrison	UTM NAD 83 Easting: Northing:	538550.5m (Approximate Pad Center) 4341550.8m (Approximate Pad Center)
	Union	Public Road Access:	CR 30/1
District: Quadrangle Watershed:		Generally used farm name:	CR 30/1 Corder, Gerald & Louella
Quadrangle Watershed: This Notice Pursuant to facsimile no related to h	Big Isaac	Generally used farm name: s notice shall include the name, additional operator and the operator's authorized secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters,
Quadrangle Watershed: This Notice Pursuant to facsimile marelated to halocated at 60 Notice is halocated.	Big Isaac Tenmile Creek Te Shall Include: West Virginia Code § 22-6A-16(b), this amber and electronic mail address of the orizontal drilling may be obtained from the old 57th Street, SE, Charleston, WV 25304 increby given by:	Generally used farm name: s notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of (304-926-0450) or by visiting www.de	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
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Quadrangle Watershed: This Notic Pursuant to facsimile manifested to have been been been been been been been be	Big Isaac Tenmile Creek Te Shall Include: West Virginia Code § 22-6A-16(b), this amber and electronic mail address of the orizontal drilling may be obtained from the O1 57th Street, SE, Charleston, WV 25304 (creby given by: Antero Resources Appalachian Corporation 1615 Wynkoop St. Denver, CO 80202	Generally used farm name: s notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of (304-926-0450) or by visiting www.de Authorized Representative: Address:	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Samantha Marsh 1615 Wynkoop St. Denver, CO 80202
Quadrangle Watershed: This Notice Pursuant to facsimile in related to h located at 66 Notice is h Well Opera Address: Telephone:	Big Isaac Tenmile Creek Tenmile Creek Te Shall Include: West Virginia Code § 22-6A-16(b), this amber and electronic mail address of the orizontal drilling may be obtained from the orizontal drill	Generally used farm name: s notice shall include the name, addroperator and the operator's authorize secretary, at the WV Department of (304-926-0450) or by visiting www.de Authorized Representative: Address: Telephone:	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Samantha Marsh 1615 Wynkoop St.
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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact Received
Office of Oil A Gas
OM 361/PCL 4,5,108/FI DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A4 Notice of Intent to Drill Attachment:

Surface Owners:

Tax Parcel ID: 361-4

Owner: Dinah Hannah, et al

*Administratix of Lucille

Devericks Estate

Address: PO Box 874

Jane Lew, WV 26378

Surface Owners:

Tax Parcel ID: 361-5

Owner: Steve C. Kovar, Jr.

Address: 2203 Turtle Tree Fork Rd.

Salem, WV 26426

Owner: Steve C. Kovar, Jr.

(2nd Address)

Address: RR 2 Box 190

Bristol, WV 26426

Surface Owners:

Tax Parcel ID: 361-10

Owner: Gerald W. & Louella M. Corder

Address: 58 Blackberry Hollow Rd.

Bristol, WV 26426

Owner: Gerald W. & Louella M. Corder

(2nd Address)

Address: RR 2 Box 174

Bristol, WV 26426

Owner: Gerald W. & Louella M. Corder

(3rd Address)

Address: 600 Turtletree Fork Rd.

Bristol, WV 26426

Surface Owners:

Tax Parcel ID: 361-11

Owner: Roger M. Corder

Address: 553 Blackberry Hollow Rd.

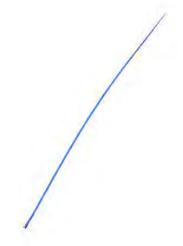
Bristol, WV 26426

Owner: Roger M. Corder

(2nd Address)

Address: RR 2 Box 187

Bristol, WV 26426



WW-6A5 (1/12)

Operator Well No. Hildred Unit 2H

47-033-05709 F

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

Jaliyanı mə	had numeriant to West Vissi-i- C	Todo 8 22 64 16(a)		
Jenvery mei	hod pursuant to West Virginia C	Joue 8 22-0A-10(c)		
CERTI	FIED MAIL	☐ HAND		
RETUI	RN RECEIPT REQUESTED	DELIVERY		
teturn receipt the planned of required to be drilling of a damages to the d) The notice of notice.	requested or hand delivery, give the operation. The notice required by provided by subsection (b), section norizontal well; and (3) A propose surface affected by oil and gas ones required by this section shall be	he surface owner whose land this subsection shall include the note of this article to a surface use and compen perations to the extent the digiven to the surface owner.	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	eby provided to the SURFACE C s listed in the records of the sheriff			
James PI FASE	SEE ATTACHMENT			
value.	OLL /II II IOI III LIII			
Address:	eby given:	Addres	he undersigned	well operator has developed a planned
Notice is her Pursuant to W operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Harrison	notice is hereby given that turpose of drilling a horizonta	he undersigned al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 538537.187m 4341558.879m
Notice is her Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Harrison Union	notice is hereby given that turpose of drilling a horizonta UTM NAD 8	he undersigned all well on the transport Easting: Northing: Access:	well operator has developed a planned act of land as follows: 538537.187m 4341558.879m CR 30/1
Address:	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Harrison	notice is hereby given that turpose of drilling a horizonta UTM NAD 8	he undersigned al well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 538537.187m 4341558.879m
Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: Fhis Notice S Pursuant to W o be provide norizontal we surface affect	Pest Virginia Code § 22-6A-16(c), the surface owner's land for the pure West Virginia Harrison Union Big Isaac Tenmile Creek Shall Include: Pest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b). All; and (3) A proposed surface use led by oil and gas operations to the lated to horizontal drilling may be located at 601 57th Street, SE,	notice is hereby given that the propose of drilling a horizontal UTM NAD and Generally us this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are compensationed from the Secretary and compensation the Secretary and compensation agreement extent the damages are compensation the Secretary and compensation agreement agreement and compensation agreement	he undersigned all well on the transport Easting: Northing: Access: ed farm name:)A copy of this e land will be ent containing an ompensable und tary, at the WV	well operator has developed a planned act of land as follows: 538537.187m 4341558.879m CR 30/1 Corder, Gerald & Louella code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Notice is her Pursuant to W peration on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W o be provide norizontal we surface affect information in neadquarters, pas/pages/def	Pest Virginia Code § 22-6A-16(c), the surface owner's land for the pure West Virginia Harrison Union Big Isaac Tenmile Creek Pest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b) and gas operations to the lated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	notice is hereby given that the prose of drilling a horizontal UTM NAD and Generally us this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are compensation the Secret Charleston, WV 25304	he undersigned al well on the tra Easting: Northing: Access: ed farm name:)A copy of this e land will be ent containing an ompensable und tary, at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 538537.187m 4341558.879m CR 30/1 Corder, Gerald & Louella code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is her Pursuant to W peration on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we surface affect information in headquarters,	Pest Virginia Code § 22-6A-16(c), the surface owner's land for the pure West Virginia Harrison Union Big Isaac Tenmile Creek Pest Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b) and gas operations to the lated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	notice is hereby given that the propose of drilling a horizontal UTM NAD and Generally us this notice shall include: (1) to a surface owner whose and compensation agreement extent the damages are compensationed from the Secretary and compensation the Secretary and compensation agreement extent the damages are compensation the Secretary and compensation agreement agreement and compensation agreement	he undersigned all well on the transport Easting: Northing: Access: ed farm name:)A copy of this e land will be ent containing an ompensable und tary, at the WV	well operator has developed a planned act of land as follows: 538537.187m 4341558.879m CR 30/1 Corder, Gerald & Louella code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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

NOV 2 1 2016

WW-6A5 Notice of Planned Operations Attachment:

Surface Owners:

Tax Parcel ID: 361-4

Owner: Dinah Hannah, et al

*Administratix of Lucille

Devericks Estate

Address: PO Box 874

Jane Lew, WV 26378

Surface Owners:

Tax Parcel ID: 361-5

Owner: Steve C. Kovar, Jr.

Address: 2203 Turtle Tree Fork Rd.

Salem, WV 26426

Owner: Steve C. Kovar, Jr.

(2nd Address)

Address: RR 2 Box 190

Bristol, WV 26426

Surface Owners:

Tax Parcel ID: 361-10

Owner: Gerald W. & Louella M. Corder

Address: 58 Blackberry Hollow Rd.

Bristol, WV 26426

Owner: Gerald W. & Louella M. Corder

(2nd Address)

Address: RR 2 Box 174

Bristol, WV 26426

Owner: Gerald W. & Louella M. Corder

(3rd Address)

Address: 600 Turtletree Fork Rd.

Bristol, WV 26426

Surface Owners:

Tax Parcel ID: 361-11

Owner: Roger M. Corder

Address: 553 Blackberry Hollow Rd.

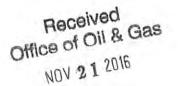
Bristol, WV 26426

Owner: Roger M. Corder

(2nd Address)

Address: RR 2 Box 187

Bristol, WV 26426





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 Charleston, West \
Governor

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

November 15, 2016

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

Subject: DOH Permit for the Corder East Pad, Doddridge County
Hildred Unit 2H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2012-1080 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off of Doddridge County Route 48 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

Cc: Kara Quackenbush

Antero Resources Corporation

CH, OM, D-4

File

Received Office of Oil & Gas NOV 2 1 2016

List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)
resh Water	7732-18-5
Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
mmonium Persulfate	7727-54-0
nionic copolymer	Proprietary
nionic polymer	Proprietary
TEX Free Hydrotreated Heavy Naphtha	64742-48-9
ellulase enzyme	Proprietary
emulsifier Base	Proprietary
thoxylated alcohol blend	Mixture
hoxylated Nonylphenol	68412-54-4
thoxylated oleylamine	26635-93-8
hylene Glycol	107-21-1
lycol Ethers	111-76-2
uar gum	9000-30-0
ydrogen Chloride	7647-01-0
ydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
opropyl alcohol	67-63-0
quid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
licroparticle	Proprietary
etroleum Distillates (BTEX Below Detect)	64742-47-8
plyacrylamide	57-55-6
ropargyl Alcohol	107-19-7
ropylene Glycol	57-55-6
uartz	14808-60-7
	7631-86-9
llica, crystalline quartz	7631-86-9
	1310-73-2
odium Hydroxide	
ugar	57-50-1
urfactant	68439-51-0
uspending agent (solid)	14808-60-7
ar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7
olvent Naphtha, petroleum, heavy aliph	64742-96-7
oybean Oil, Me ester	67784-80-9
opolymer of Maleic and Acrylic Acid	52255-49-9
ETA phosphonate	15827-60-8
examthylene Triamine Penta	34690-00-1
hosphino Carboxylic acid polymer	71050-62-9
lexamethylene Diamine Tetra	23605-75-5
-Propenoic acid, polymer with 2 propenamide	9003-06-9
examethylene diamine penta (methylene phosphonic acid)	23605-74-5
Piethylene Glycol	111-46-6
Methenamine	100-97-0
Polyethylene polyamine	68603-67-8 Boco
Coco amine	100-97-0 68603-67-8 61791-14-8 38172-91-7 Office of C
-Propyn-1-olcompound with methyloxirane	38172-91-7 Office

Project Contacts

Antero Resources

Conrad Baston, Design and Constructi 304-842-4100 Off. 304-476-8200 Cell

Eli Wagoner, Environmental Engineer 304-622-3842, ext 311 Off. 304-476-9770 Cell

John McEvers, Operations Superintendent 304-842-4739 Off., 303-808-2423 Cell

Aaron Kunzler, Construction Supervisor 405-227-8344

Surveyor & Engineer

Bill Yetzer, PS, Et, - Allegheny Surveys Inc. 304-848-5035 Off. 304-619-4937 Cell

Kirk Wilson, PE - L&W Enterprises, Inc. 304-257-4818 Off. 304-888-0385 Cell

FLOODPLA	IN CONDITIONS		
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:		DPLAIN:	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:		OR:	NO.
HEC-RAS STUDY COMPLETED:			NIA
FLOODPLAIN SHOWN ON DRAWINGS:			N/A
FIRM MAP NUMBER(S) FOR SITE:	5400530075B		
ACREAGES OF CONSTRUCTION IN FLOODPLAIN: N		NIA	

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!!



7/26/2017

CORDER EAST PAD

AS-BUILT AND RECLAMATION PLAN ANTERO RESOURCES CORPORATION



West Virginia State Plane Coordinate System North Zone, NAD27 Elevations Based on NAVD88 Established By Survey Grade GPS & OPUS Post-Processing

		As-built Ow	per informatio	per .	
Dantel	Tis/Percel	Dend/Page	Tatal Agres	Type of Broterbancy	Acreser
Locifie Deveroby	361/3	W# 167/23	1.05	Access hood 8.	8.3
Specific Deventation	3675	W-8 167/73	5.7	Access None A	4.0
Artife Deventite	361/4	WE 367/73	4.12	Access Road A & Drill Fee	L
Stree E. Privati, P.	967/A	1140/1150	77.67	Del? Pad	8.7
Sereld W. Corder, et un	1677	1206/379	63	Agrees Appel S & Woter Tank Parl	1.1
Send & W. Confer, et av	Ms/39	1206/978	10	Access Road A & Orti Pad	3.7
Poppet M. Carden	361/11	1706/964	137	Dolf Fad	87
				Tural	14.0

As-Built LOD Area (ac)	
Access Road A & Drill Pad	7.61
Access Road B & Water Tank Pad	3.41
Total Affected Area	11.02
Total Wooded Acres Disturbed	8.00
Total Unear Feet of Access Road	504

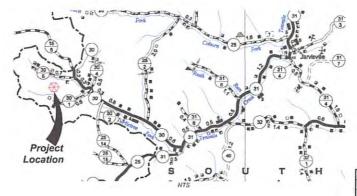
*NOTE: No Streams or Wetlands Were Impacted by this Design



	000 200	3000
	SITE LOCATIONS NAD 83	
	LATITUDE	LONGITUDE
Center of Part (L/TM Linksen)	N=4341550.8 m	E=538550.5 m
Center of Fad	39.2223692	-80.5534011
	20.2234341	

BIG ISAAC QUAD

UNION DISTRICT HARRISON COUNTY, WV TENMILE CREEK WATERSHED



As-Built Certification This as-built certifies that this Well Pad and access road was constructed in resconsible conformance with the design drawings that were prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas § CSR 35-8.

THIS DOCUMENT PREPARED FOR ANTERO RESOURCE CORPORATION

CORDER EAST PAD
AS-BUILT AND RECLAMATION PLAN
UNION DISTRICT
HARRISON COUNTY, WV

DRAWING INDEX

3 WELL PAD AS-BUILT AND RECLAMATION PLAN

4 WATER TANK PAD AS-BUILT AND RECLAMATION PLAN

		Date: 5/24/16
DATE	REVISIONS	Scale: N/A
2-3-17	Revised to add Cellar Detail and new Tank Pad Reclamation Plan All Sheets	Designed By: CKW
	110,0000	File No. Amore 250-1
		Page 1 of 4

1 COVER SHEET/LOCATION MAP

2 OVERALL AS-BUILT PLAN VIEW

