

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 TRUMAN UNIT 2H

47-033-05715-00-00

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: TRUMAN UNIT 2H Farm Name: CORDER, GERALD AND LOUELLA U.S. WELL NUMBER: 47-033-05715-00-00

Horizontal 6A / Fracture

Date Issued: 7/31/2017

Promoting a healthy environment.

API Number: 33 - 05715F

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

- 1. 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 DEPOOGNotify@wv.gov.

API NO	47-033	- 05715

OPERATOR WELL NO. Truman 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	494507062	033-Harrison	Union	Big Isaac
				Operator ID	County	District	Quadrangle
2) Operator's '	Well Numbe	r: Truman U	nit 2H	Well Pa	d Name: Existi	ng Corder	East Pad
3) Farm Name	/Surface Ow	ner: Corder,	Gerald & L	ouella Public Ro	ad Access: CR	30/1	
4) Elevation, c	urrent groun	d: 1405'	Ele	evation, proposed	post-constructi	on: 1405'	
5) Well Type	(a) Gas Other	Х	Oil _	Und	erground Stora	ge	
	(b)If Gas	Shallow Horizontal	X	Deep			SPW 12/7/2016
6) Existing Page	d: Yes or No	Yes			<u>.</u>		12/7/2016
	•			ipated Thickness a ss- 50 feet, Associ			
8) Proposed To	otal Vertical	Depth: 749	4' TVD				
9) Formation a	t Total Verti	cal Depth:	Marcellus	y .			
10) Proposed 7	Гotal Measur	ed Depth:	15,000' MD	(*Please note: This v	vell has been drille	ed. Actual Me	asured Depth is 14,768')
11) Proposed I	Horizontal L	eg Length:	6923'				
12) Approxima	ate Fresh Wa	iter Strata De	pths:	100'			
13) Method to	Determine F	Fresh Water I	Depths:	Clark Unit 1H (AF	PI# 47-033-057	'10) on sa	me pad
14) Approxima	ate Saltwater	Depths: 79	7', 900', 1	454'	Ottlos of	Oil and A	340
15) Approxima	ate Coal Sea	m Depths: 5	95', 666',	883'	DEC	1 9 2016	
16) Approxima	ate Depth to	Possible Voi	d (coal mi	ne, karst, other):	None Anticipa	tedrtmen	tof
17) Does Prop	osed well lo	eation contain	i coal sear	ns	Environme	ental Prof	ection
directly overly				Yes	No.	X	
(a) If Yes, pro	ovide Mine	Info: Name					
		Depth	:				
		Seam:					
		Owne	r:				

API NO. 47- 033

OPERATOR WELL NO. Truman 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#	366'	366'	CTS, 254 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2490'	2490'	CTS, 780 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	14,768'	14,768'	2927 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

5 pw 12/7/2016

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 & 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	BECEIVED

Office of City and Gas

020 - 9 - 13

Was Desertated of

API NO. 47- 033 - 05715

OPERATOR WELL NO. _Truman 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 - 14,768'. Antero is requesting to perforate and 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.

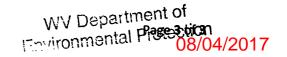
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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. nump 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 to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbs resh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

DEC 19 2016

*Note: Attach additional sheets as needed.



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

UWI (APINum) Well Name	Well Number	Operator	Historical Operator	₹D	ELEV_GR	(GVT22) GT	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perfd
47017035960000 ROSS JAMES	1	CONSOL GAS COMPANY	EXCEL ENERGY CORP	5800	1491	-4309	5303-5652	Benson, Alexander	Fifth, Speechley, Balltown
47033025330000 SOMMERVILLE ET AL	2	CONSOL GAS COMPANY	STOKEWALL GAS	5615	1310	-4305	5110-5550	Benson, Alexander	Fifth, Speechley, Balltown
47017032350000 FREEMAN A A ET AL	3	CONSOL GAS COMPANY	SCOTT JAMES F	5571	1154	-4417	5020-5420	Benson, Alexander	Fifth Speechley, Balltown
47033025320000 SOMMERVILLE ET AL	1	CONSOL GAS COMPANY	STOKEWALL GAS	5564	1240	-4324	5051-5425	Benson, Alexander	Fifth, Specifiery, Balltown

Received
Office of Oil & Gas
NOV 21 2016

WW-9 (4/16)

API Number 47 -	033	- 05715
Operator's	Well No.	Truman 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 V
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cutings will be tanked and haused off atta.)
Will a synthetic liner be used in the pit? Yes No 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)
Other (Explain Northwestern Landfill Permit #SWF-1025/
WV0109410 5pw 12/7/2018
Will closed loop system be used? If so, describe: Yes 12/7/2018
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Surface - Alt/Freshwater, Intermediate - Data/SUH Foam, Production - Water Based Mud
-If oil based, what type? Synthetic, petroleum, etc. NA
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? Meadowill 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 (Typed Name) Cole Kilstrom
Company Official Title Environmental & Regulatory Manager
Subscribed and sworn before me this 18th day of NOVEMBEY, 20 16 RECEIVED Notary Public NOTARY PUBLIC STATE OF COLORADO NOTARY
My commission expires MY COMMISSION EXPIRES DECEMBER 20, 2017

WV Department of Environmental Protection 08/04/2017

Proposed Revegetation Tre	eatment: Acres Disturbed 11.02	(existing) acres Prevegetation pH	
Lime 2-4	Tons/acre or to correct to p	_{oH} 6.5	
Fertilizer type Ha	y or straw or Wood Fiber (will be use	ed where needed)	
Fertilizer amount_	500	_lbs/acre	
Mulch 2-3	Ton	s/acre	
E		cess Road B & Water Tank Pad (3.41) = 11.02 Existing A	Acres
Т	Гетрогату	Perman	ent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	45	Tall Fescue	45
Perennial Rye Gr	rass 20	Perennial Rye Grass	20
*or type of grass seed r	requested by surface owner	*or type of grass seed reques	ted by surface owner
Maps(s) of road, location, provided). If water from the acreage, of the land application	e pit will be land applied, include	lication (unless engineered plans including dimensions (L $x W x D$) of the pit, and c	ng this info have been limensions (L x W), and
Maps(s) of road, location, provided). If water from the acreage, of the land application of involved the complete section of involve	e pit will be land applied, include ation area. olved 7.5' topographic sheet.	dimensions (L x W x D) of the pit, and c	ng this info have been limensions (L x W), and
provided). If water from the acreage, of the land applicate Photocopied section of involved by:	e pit will be land applied, include ation area. olved 7.5' topographic sheet.	dimensions (L x W x D) of the pit, and c	limensions (L x W), and
Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by: Comments: Dog race	e pit will be land applied, include ation area. olved 7.5' topographic sheet. Decourse Le EAS iF/95	dimensions (L x W x D) of the pit, and c	limensions (L x W), and
Maps(s) of road, location, provided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by:	e pit will be land applied, include ation area. olved 7.5' topographic sheet. Decourse Le EAS iF/95	dimensions (L x W x D) of the pit, and c	limensions (L x W), and
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Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by: Comments: Dog race	e pit will be land applied, include ation area. olved 7.5' topographic sheet. Decourse Le EAS iF/95	dimensions (L x W x D) of the pit, and c	limensions (L x W), and
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Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by: Comments: Dog race	e pit will be land applied, include ation area. olved 7.5' topographic sheet. Decourse Le EAS iF/95	dimensions (L x W x D) of the pit, and c	limensions (L x W), and
Maps(s) of road, location, provided). If water from the acreage, of the land application of the land a	e pit will be land applied, include ation area. olved 7.5' topographic sheet. Devant Le EAS iF/as La l	dimensions (L x W x D) of the pit, and o	Imensions (L x W), and
Maps(s) of road, location, provided). If water from the acreage, of the land application of involved section of involved by: Comments: Dog race	e pit will be land applied, include ation area. olved 7.5' topographic sheet. Devant Le EAS iF/as La l	dimensions (L x W x D) of the pit, and c	Imensions (L x W), and



911 Address 1734 Turtle Tree Fork Road Salem, WV 26426

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.

RECEIVED
Office of Oil and Gas

12/7/2016

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

WV Department of Environmental Protection

Operator's Well No.	Truman 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Boyd W. Mason, et ux Lease				
	Boyd W. Mason, et ux	Clarence W. Mutschelknaus	1/8	0115/0493
	Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	0240/0342
	Bluestone Energy Partners	Antero Resources Appalachian Corp.	Merger	DB 0288/0001
	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.

Well Operator:	Antero Resources Cor	poration
By:	Kevin Kilstrom	Well-
Its:	VP of Production	

Page 1 of

FORM WW-6A1 EXHIBIT 1

FILED

Natalio 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 Hed stamped copy returned to you) FEE: \$25,00



Penney Barker, Manager
IN THE OFFICE OF Corporations Division
SECRETARY OF STATE Fax: (304)558-8381
Wabite: www.uwend.com

Website: www.wvsos.com
B-mail: business@wvsos.com

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

**** In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby ****

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

applies for an Amended Certificate of Authority and submits the following statement: 1. Name under which the corporation was Antero Resources Appalachian Corporation authorized to transact business in WV: 2. Date Certificate of Authority was 6/25/2008 issued in West Virginia: Antero Resources Corporation 3. Corporate name has been changed to: (Attach one Certified Copy of Name Change as filed in home State of incorporation.) Antero Resources Corporation 4. Name the corporation elects to use in WV: (due to home state name not being available) 5. Other amendments: (attach additional pages if necessary 6. Name and phone number of contact person. (This is optional, however, if there is a problem with the filing, listing a contact person and phone number may avoid having to return or reject the document.) (303) 357-7310 Alwn A. Schopp Contact Name Phone Number 7. Signature information (See below *Important Legal Notice Regarding Signature): Title/Capacity: Authorized Person Print Name of Signer: Aleyn A. Schop Date: June 10, 2013 Signature: *Important Level Notice Rescrition Standard: For West Virginia Code 5310-1-129. Penalty for signing false document.

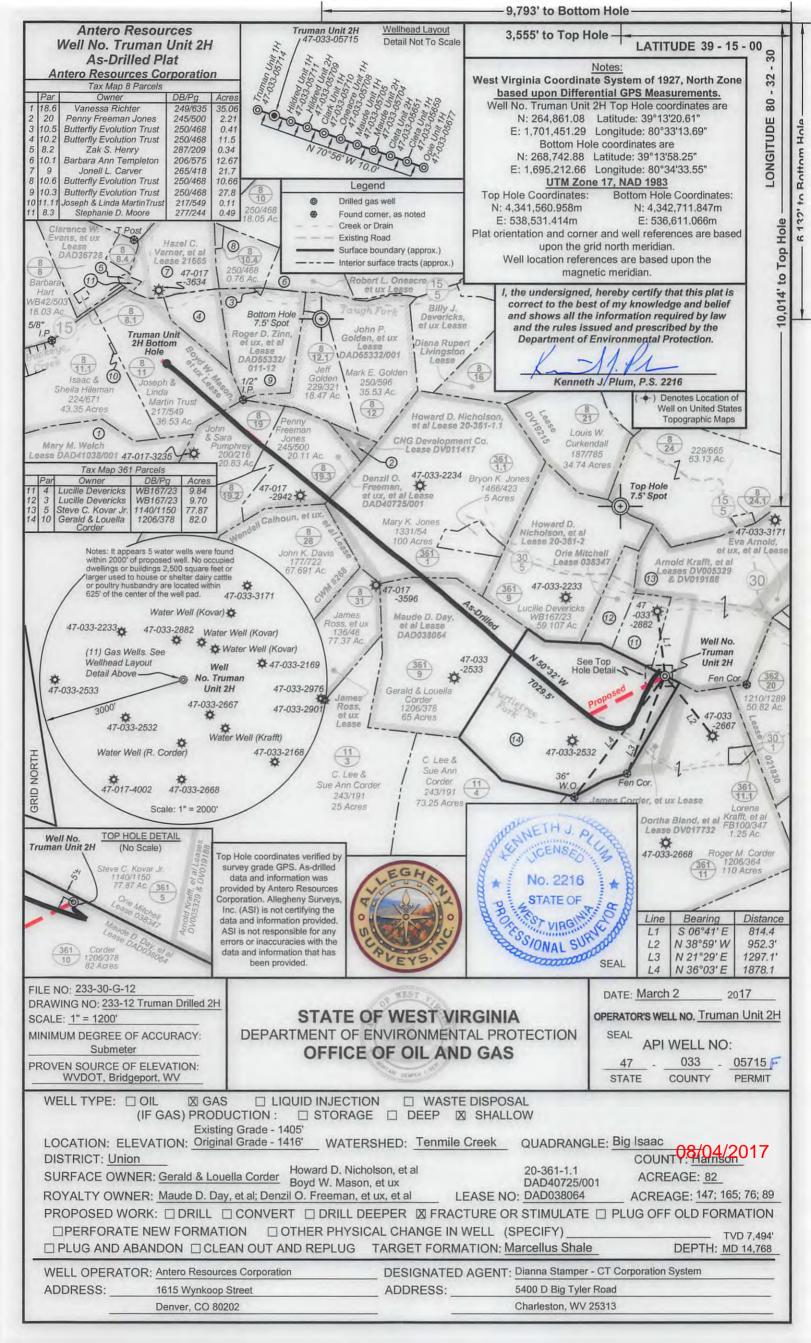
Any person who signs a document he or she knows is false in any material respect and knows that the document is to be delivered to the secretary of state for filing is guilty of a misdomosner and, upon conviction thereof, shall be fined not more than one thousand dollars or confined in the county or regional jall not more than one year, or both Received

W1011 - 0416/2011 Walsies Klawer Oellas

Form CF-

Issaed by the Office of the Secretary of State

NOV. 2 1 2016





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: Truman Unit 2H (API # 47-033-05715)

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 Truman 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 Truman 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

Heceived
Office of Oil & Gas
NOV 2 1 2016

Date of Notice Certification: 11/17/2016

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

ADI No. 47 033

05715

		_		AI I 110. T		
				Operator's	s Well No. Trum	an Unit 2H
				Well Pad l	Name: Existing	Corder East Pad
Notice has I Pursuant to the	been given: ne provisions in West Virginia Co tract of land as follows:	ode § 22-6A,	the Operator has pro	ovided the rea	quired parties v	vith the Notice Forms listed
State:	West Virginia			Easting:	538531.414m	
County:	Harrison		UTM NAD 83	Northing:	4341560.958m	
District:	Union		Public Road Acc		CR 30/1	
Quadrangle:	Big Isaac		Generally used to		Corder, Gerald &	Louella
Watershed:	Tenmile Creek		•			
prescribed by it has provid information r of giving the requirements Virginia Cod	West Virginia Code § 22-6A-7(the secretary, shall be verified at ed the owners of the surface de- equired by subsections (b) and (c surface owner notice of entry to of subsection (b), section sixtee e § 22-6A-11(b), the applicant sh have been completed by the appl	nd shall cont scribed in su), section six o survey pur en of this art all tender pro	ain the following intubdivisions (1), (2) teen of this article; (suant to subsection ticle were waived in	formation: (1 and (4), sub- ii) that the re (a), section writing by	4) A certification (b), section (b), section (c), section (d), section	on from the operator that (i) the ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the rator has properly served the req	e Operator hauired parties	as attached proof to with the following:	this Notice C	Certification	OOG OFFICE USE ONLY
TELEASE CH.	ECK ALL INAT AFFLI					ONLI
☐ 1. NO	TICE OF SEISMIC ACTIVITY					☐ RECEIVED/
		SEISM	IIC ACTIVITY WA	s conduc	TED	NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SU	JRVEY or [NO PLAT SUR	EY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL	NOTIC	OTICE NOT REQUI CE OF ENTRY FOR CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
			RITTEN WAIVER (PLEASE ATTACH		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	ON				☐ RECEIVED
					:	
■ 5. PU	BLIC NOTICE					☐ RECEIVED

Required Attachments:

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

By:

Its:

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

Kevin Kilstrom
VP of Production

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: asteele@anteroresources.com

SAMANOTHARMARSH
NOTARY PUBL'C
STATE OF COLORADO
NOTARY ID 20134079428
MY COMMISSION EXPIRES DECEMBER 20, 2017

Subscribed and sworn before me this 17th day of November 2016

SWW WIT V WAY V LOVY = Notary

My Commission Expires |2 |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.

Received
Office of Oil & Gas
NOV 21 2016

WW-6A (9-13)

API NO. 47- 033 - 05715

OPERATOR WELL NO. Truman 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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 11/18/2016 Date Permit Application Filed: 11/18/2016 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A **SERVICE** MAII. RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☑ COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: PLEASE SEE ATTACHMENT Name: PLEASE SEE ATTACHMENT Address: Address: COAL OPERATOR Name: Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: PLEASE SEE ATTACHMENT WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE Address: Name: PLEASE SEE ATTACHMENT Address: Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD — Received Office of Oil & Gas ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: ______Address: _____ Address: NOV 21 2016 *Please attach additional forms if necessary

API NO. 47- 033 - 05715

OPERATOR WELL NO. Truman 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 40 permitted 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 at fact in this section. in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well per Carlesst one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the 2016 Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47-033 - 05715

OPERATOR WELL NO. Truman 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 Acceived
Office of Oil & Gas
NOV 21 2016 application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

API NO. 47- 033 - 05715

OPERATOR WELL NO. Truman 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.



WW-6A (8-13) NO 47-033 - 05715 47-033-05715

API NO. 47- 033 - 05715

OPERATOR WELL NO. Truman Unit 2H

Well Pad Name: Existing Corder East Pad

Notice is hereby given by:

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

Email: 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 NO V-lub bur 2016

Sum authority Public

My Commission Expires | 2 | 20 | 2017

Office of Oil & Gas

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

Office of Oil & Case

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

Received
Office of Oli & Gas
NOV 21 2016

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

WATER SOURCE OWNERS - Within 1500' (cont.)

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

Elyria, OH 44035

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

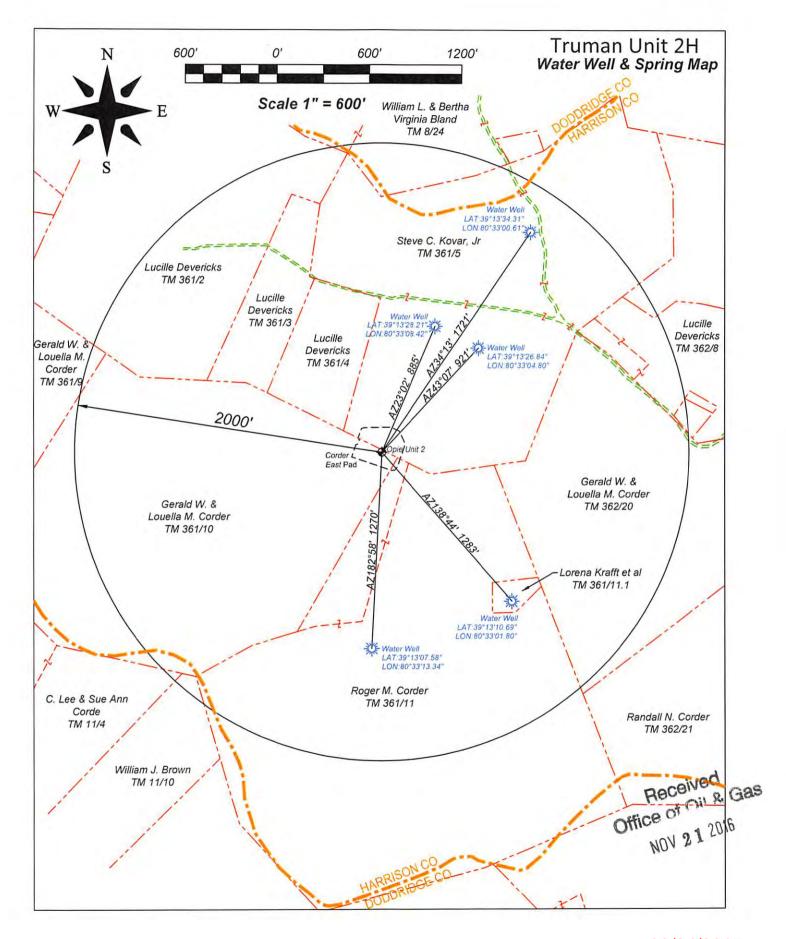
Address: 2203 Turtletree Fork Rd.

Bristol, WV 26426

2nd Address: RR 2 Box 190

Bristol, WV 26426

Peceived
Office of Oil R GAS
NOV 21 2016



Operator Well No. Truman Unit 2H

Multiple Wells on Corder East Pad

47-033-05715

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

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

Notice Time Date of Notic	e: 11/08/2016 Date I	Permit Application Filed: 11/18/2016	
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		FOLIECTED	
DELIVE	RY RETURN RECEIPT R	EQUESTED	
receipt request drilling a horiof this subsection mand if availab	ted or hand delivery, give the surface of zontal well: <i>Provided</i> , That notice give tion as of the date the notice was provide by be waived in writing by the surface of the, facsimile number and electronic main	wher notice of its intent to enter upon the en pursuant to subsection (a), section teled to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall included address of the operator and the operator	an operator shall, by certified mail return ne surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE C SEE ATTCHMENT		
		Name.	
Notice is he		Address:	
Notice is he Pursuant to W the surface ov State: County: District:	reby given: Vest Virginia Code § 22-6A-16(b), noti	ce is hereby given that the undersigned horizontal well on the tract of land as fo UTM NAD 83 Easting: Northing:	well operator has an intent to enter upon
Notice is he	reby given: Vest Virginia Code § 22-6A-16(b), notion Viner's land for the purpose of drilling a West Virginia Harrison Union	ce is hereby given that the undersigned horizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access:	well operator has an intent to enter upon illows: 538550.5m (Approximate Pad Center) 4341550.8m (Approximate Pad Center) CR 30/1
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor	reby given: Vest Virginia Code § 22-6A-16(b), notivner's land for the purpose of drilling a West Virginia Harrison Union Big Isaac Tenmile Creek Shall Include: West Virginia Code § 22-6A-16(b), the ber and electronic mail address of the izontal drilling may be obtained from	ce is hereby given that the undersigned horizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, addre operator and the operator's authorize the Secretary, at the WV Department of	well operator has an intent to enter upon illows: 538550.5m (Approximate Pad Center) 4341550.8m (Approximate Pad Center) CR 30/1
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Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address:	reby given: Vest Virginia Code § 22-6A-16(b), notiver's land for the purpose of drilling a West Virginia Harrison Union Big Isaac Tenmile Creek Shall Include: Vest Virginia Code § 22-6A-16(b), the and electronic mail address of the izontal drilling may be obtained from 57th Street, SE, Charleston, WV 2530-1615 Wynkoop St. Antero Resources Appalachian Corporation 1615 Wynkoop St. Denver, CO 80202	ce is hereby given that the undersigned horizontal well on the tract of land as fo UTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: is notice shall include the name, addrese operator and the operator's authorized the Secretary, at the WV Department of 4 (304-926-0450) or by visiting www.de Authorized Representative: Address:	well operator has an intent to enter upon illows: 538550.5m (Approximate Pad Center) 4341550.8m (Approximate Pad Center) CR 30/1 Corder, Gerald & Louella 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

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

WW-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

Steve C. Kovar, Jr. Owner:

(2nd Address)

RR 2 Box 190 Address:

Bristol, WV 26426

Surface Owners:

Tax Parcel ID: 361-10

Owner: Gerald W. & Louella M. Corder

58 Blackberry Hollow Rd. Address:

Bristol, WV 26426

Gerald W. & Louella M. Corder Owner:

(2nd Address)

RR 2 Box 174 Address:

Bristol, WV 26426

Owner: Gerald W. & Louella M. Corder

(3rd Address)

600 Turtletree Fork Rd. Address:

Bristol, WV 26426

Surface Owners:

Tax Parcel ID: 361-11

Owner: Roger M. Corder

553 Blackberry Hollow Rd. Address:

Bristol, WV 26426

Roger M. Corder (2nd Address) Owner:

RR 2 Box 187 Address:

Bristol, WV 26426

Received
Office of Oil & Gas NOV 21 2016

WW-6A5 (1/12)

Operator Well No. Truman Unit 2H

47-033-05715

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

Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)		
■ CERTIF	FIED MAIL	HAND		
	N RECEIPT REQUESTED	DELIVERY		
return receipt the planned o required to be drilling of a h damages to th	requested or hand delivery, give the su peration. The notice required by this provided by subsection (b), section ten provided well; and (3) A proposed su e surface affected by oil and gas operat	rface owner whose land subsection shall includ of this article to a surfa arface use and compensa- tions to the extent the data	will be used for de: (1) A copy ace owner whos ation agreement mages are comp	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
	by provided to the SURFACE OWN			
(at the address	s listed in the records of the sheriff at th SEE ATTACHMENT			
Name: PLEASE	SEE ATTACHMENT	Name:		
		Address	•	
Address:	eby given: est Virginia Code § 22-6A-16(c), notic	Address e is hereby given that th	e undersigned	well operator has developed a planned
Notice is here Pursuant to W operation on State: County:	eby given:	Address e is hereby given that th	te undersigned value on the tra Easting: Northing:	well operator has developed a planned
Notice is here Pursuant to W operation on State: County: District:	eby given: est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia Harrison	Address e is hereby given that the of drilling a horizontal UTM NAD 83	te undersigned of the transport of the t	well operator has developed a planned act of land as follows: 538531.414m 4341560.958m
Notice is here Pursuant to W operation on State: County:	eby given: Test Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia Harrison Union	Address e is hereby given that the of drilling a horizontal UTM NAD 83	te undersigned of the transport of the t	well operator has developed a planned act of land as follows: 538531.414m 4341560.958m CR 30/1
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re	est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia Harrison Union Big Isaac Tenmile Creek Hall Include: Yest Virginia Code § 22-6A-16(c), this d by W. Va. Code § 22-6A-10(b) to all; and (3) A proposed surface use and ed by oil and gas operations to the extelated to horizontal drilling may be oblocated at 601 57th Street, SE, Chi	Address e is hereby given that the of drilling a horizontal UTM NAD 8: Public Road A Generally use notice shall include: (1): a surface owner whose compensation agreement the damages are contained from the Secreta	te undersigned of well on the traces and farm name: A copy of this land will be understone and ary, at the WV	well operator has developed a planned act of land as follows: 538531.414m 4341560.958m 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 ler article six-b of this chapter. Additional Department of Environmental Protection
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters, gas/pages/defa	est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpos West Virginia Harrison Union Big Isaac Tenmile Creek hall Include: Yest Virginia Code § 22-6A-16(c), this do by W. Va. Code § 22-6A-10(b) to all; and (3) A proposed surface use and eed by oil and gas operations to the extellated to horizontal drilling may be oblocated at 601 57th Street, SE, Chault.aspx.	Address e is hereby given that the of drilling a horizontal UTM NAD 8: Public Road A Generally use notice shall include: (1): a surface owner whose compensation agreement the damages are contained from the Secreta	te undersigned of well on the trade and well on the trade and arm name: A copy of this land will be understand arm name arm name, at the WV (304-926-0450)	well operator has developed a planned let of land as follows: 538531.414m 4341560.958m CR 30/1 Corder, Gerald & Louella code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the let article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received

Gas

Office of Oil 8 Gas

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

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 Truman Unit 2H Well site

Dear Mr. Martin,

Earl Ray Tomblin

Governor

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.

Gay K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Kara Quackenbush

Antero Resources Corporation

CH, OM, D-4

File

Received Gas Office of Oil & Gas NOV 21 2016

List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)		
Fresh Water	7732-18-5		
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1		
Ammonium Persulfate	7727-54-0		
Anionic copolymer	Proprietary		
Anionic polymer	Proprietary		
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9		
Cellulase enzyme	Proprietary		
Demulsifier Base	Proprietary		
Ethoxylated alcohol blend	Mixture		
Ethoxylated Nonylphenol	68412-54-4		
Ethoxylated oleylamine	26635-93-8		
Ethylene Glycol	107-21-1		
Glycol Ethers	111-76-2		
Guar gum	9000-30-0		
Hydrogen Chloride	7647-01-0		
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8		
Isopropyl alcohol	67-63-0		
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2		
Microparticle	Proprietary		
Petroleum Distillates (BTEX Below Detect)	64742-47-8		
Polyacrylamide	57-55-6		
Propargyl Alcohol	107-19-7		
Propylene Glycol	57-55-6		
Quartz	14808-60-7		
Sillica, crystalline quartz	7631-86-9		
Sodium Chloride	7647-14-5		
Sodium Hydroxide	1310-73-2		
Sugar	57-50-1		
Surfactant	68439-51-0		
Suspending agent (solid)	14808-60-7		
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7		
Solvent Naphtha, petroleum, heavy aliph	64742-96-7		
Soybean Oil, Me ester	67784-80-9		
Copolymer of Maleic and Acrylic Acid	52255-49-9		
DETA phosphonate	15827-60-8		
Hexamthylene Triamine Penta	34690-00-1		
Phosphino Carboxylic acid polymer	71050-62-9		
Hexamethylene Diamine Tetra	23605-75-5		
2-Propenoic acid, polymer with 2 propenamide	9003-06-9		
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5		
Diethylene Glycol	111-46-6		
Methenamine	100-97-0 R		
Polyethylene polyamine	68603-67-8		
Coco amine	68603-67-8 61791-14-8		
2-Propyn-1-olcompound with methyloxirane	38172-91-7		

21 2016

Project Contacts

Antero Resources

Conrad Beston, Design and Construction 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 Superintend 304-842-4739 Off., 303-808-2423 Cell

Asron Kunzler, Construction Supervisor 405-227-8344

Robert Works, Manager WV Design & Survey 304-842-4100 Off: 304-627-7405 Cell

Surveyor & Engineer

Kirk Wilson, PE - L&W Enterprises, in 304-257-4818 Off. 304-668-0365 Cell



FLOODPLAIN CO	NDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PL	ACE IN FLOODPLAIN.	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN	COORDINATOR:	NO
HEC-RAS STUDY COMPLETED		N/A
FLOODPLAIN SHOWN ON DRAWINGS:		N/A
FIRM MAP NUMBER(S) FOR SITE:	5400530075B	
ACREAGES OF CONSTRUCTION IN FLOODPLAI	N: N	A

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!!



CORDER EAST PAD

AS-BUILT AND RECLAMATION PLAN ANTERO RESOURCES CORPORATION



BIG ISAAC QUAD

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

As-built Owner Information						
Duner	TM/Percel	Dyna/Page	Tutal Acres	Type of Daturbania	Agreege	
Luc'Re Devende	361/3	999.167/23	7.05	Access Nood B	4.3	
gotte Deverola	16-73	WR SET/23	37	Access Read A		
Aprille Devenius	361/4	WR 161/23	412	Access Road A & Drill Fad	1.1	
Steve C. Kover, W.	261/5	1140/1150	77.87	Did Fed	1.1	
Gersid W. Conlei, et us	161/9	1201/376	60	Access Road & & Wyner Tank Pad	3.1	
Gerald W. Carder, et us	161/10	1206/1/24	6.2	Access found & & Drift Fee	9.1	
Apper M. Conder	961/11	1206/364	110	Dell Ped	67	
	1			furpi	11.6	

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 Arres Disturbed	8.00
Total Linear Feet of Access Road	504

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



L&W ENTERPRISES, INC.

PAR PAR

As-Built Certification As-Bull Cartification
This ar-built certifies that this Well Pad and access road was constructed in reasonable conformance with the design drawings that ever prepared in accordance with the West Vignia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas § CSR 35-3.

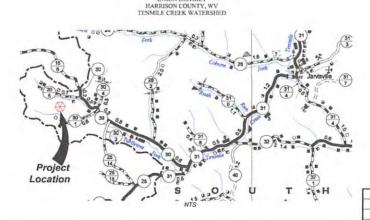


THIS DOCUMENT PREPARED FOR ANTERO RESOURCE CORPORATION

CORDER EAST PAD AS-BUILT AND RECLAMATION PLAN

3 WELL 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: CXW
		Fitz No. Antico 250-11
		Program 1 of 4



DRAWING INDEX

1 COVER SHEET/LOCATION MAP

2 OVERALL AS-BUILT PLAN VIEW

4 WATER TANK PAD AS-BUILT AND RECLAMATION PLAN

