

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, December 16, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for TYGART 2H 47-095-02722-00-00

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: TYGART 2H

Farm Name: PATRICIA ANN HEINTZMAN

U.S. WELL NUMBER: 47-095-02722-00-00

Horizontal 6A New Drill Date Issued: 12/16/2020

API Number:
A DI Niumbore

PERMIT CONDITIONS

4709502722

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.

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LU	/K#	14 14 14	v	70

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

API	Number:	

PERMIT CONDITIONS

4709502722

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-095

OPERATOR WELL NO. Tygart Unit 2H Well Pad Name: Elk Fork Pad

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

1) Well Operato	or: Antero	Resources	Corporat	49450706	2	095 - Tyler	Ellsworth	Porters Falls	; 7. 5 '
	A von administration conference in confederations.	(CANTON TO THE CANTON TO T		Operator 1		County	District	Quadrangle	
2) Operator's W	Vell Numbe	r: Tygart Un	nit 2H	W	ell Pac	Name: Elk Fo	ork Pad		personal state of the state of
3) Farm Name/	Surface Ow	ner: Patricia	Ann Heint	zman Publ	ic Roa	d Access: Elk	Fork Road	I	
4) Elevation, cu	ırrent groun	d: 1126'	Ele	evation, pro	posed	post-constructi	on:		
5) Well Type	(a) Gas Other	X	_ Oil	Acceptable of the second secon	Unde	erground Storag	ge		
	(b)If Gas	Shallow Horizontal	X	De	ер				
6) Existing Pad	: Yes or No		***************************************	TO AND THE PROPERTY OF THE PRO					
7) Proposed Tar	rget Format	ion(s), Depth		•		.nd Expected Pressure- 2	` '		
8) Proposed To	tal Vertical	Depth: 700	0' TVD						
9) Formation at			Marcellus						*************
10) Proposed T	otal Measur	red Depth:	12600'						
11) Proposed H			4183'				R	eceived of Oil and Gas	
12) Approxima	te Fresh Wa	ater Strata De	epths:	125'				C 1 4 2020	
13) Method to I	Determine F	resh Water I	Depths: 4	7-095-002	69		DE	CIA	
14) Approxima			703'				wv	Department of	วก
15) Approxima			58'				Enviro	nmental Protection	
16) Approxima				ne, karst, ot	her):	None Anticipa	ted	Andrew Comments of the Comment	,,
17) Does Propo directly overlyi	sed well loo	cation contain	n coal sear		- THE STATE OF THE PARTY AND T		<u> </u>		
(a) If Yes, pro	vide Mine	Info: Name	e:						
		Depth	ı;						
		Seam	•						
		Owne	er:						

WW-6B (04/15) API NO. 47- 095 OPERATOR WELL NO. Tygart Unit 2H
Well Pad Name: Elk Fork Pad

18)

Kind:

Sizes:

Depths Set:

N/A

N/A

N/A

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#	90'	90'	CTS, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300'	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	12600'	12600'	3058 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

)CB 12/11/2020

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	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate			***************************************				
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	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					- Constitution of the Cons		

<u>PACKERS</u>

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(DEC 1 4 2020					
	WV Department of Environmental Protection					

UNO 47-095 7 0 9 5 0 2 7 2 2

OPERATOR WELL NO. Tygart Unit 2H

Well Pad Name: Elk Fork Pad

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

Drill a new vertical shallow well into the Marcellus Shale.

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

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

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

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm 12/11/2020

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 43.65 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.91 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:

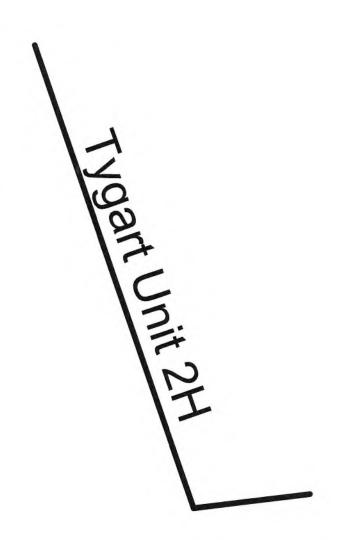
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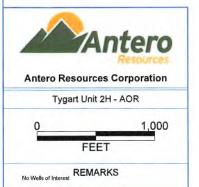
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*Note: Attach additional sheets as needed.







November 9, 2020

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PETRA 11/9/2020 8:26:27 AM

WW-9 (4/16)

API Number 47 -	095	
Operator's	Well No.	Tygart 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) Outlet Middle Island Creek	Quadrangle Porters Falls 7.5'
Do you anticipate using more than 5,000 bbls of water to comp	
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No ph will be	used at this site (Drilling and Flowbeck Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	JCB
Land Application	12/11/2020
	it Number *UIC Permit # will be provided on Form WR-34
	ed well locations when applicable. AP# will be provided on Form WR-34 W-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
Other (Explain	Northwestern Landfill Permit #SWF-1025/
	to a the tentre of the second official telephone to locality
Will closed loop system be used? If so, describe: Yes, fluids s	Surface - Air/Freshwater, Intermediate -
Drilling medium anticipated for this well (vertical and horizon	tal)? Air, freshwater, oil based, etc. Dust/Stiff Foam, Production-Water Based Mud
-If oil based, what type? Synthetic, petroleum, etcS	synthetic
Additives to be used in drilling medium? Please See Attachmer	nt
Drill cuttings disposal method? Leave in pit, landfill, removed	d offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be	e used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Le	andfill (Permit #SWF-1032-98), Northwestem Landfill (Permit # SWF-1025/WV0109410)
	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personall application form and all attachments thereto and that, base obtaining the information, I believe that the information is penalties for submitting false information, including the possible Company Official Signature Gretchen Kohler	conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment. RECEIVED Office of Oil and Gas
Company Official (Typed Name) Gretchen Kohler	DEC 1 4 2020
Company Official Title Senior Environmental & Regulatory Mar	nager DEC 1 4 2020
Subscribed and sworn before me this day of	WV Department of Environmental Protection
My commission expires 3 3 7077	Notary Public MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO
,	NOTARY ID 10184011666 MY COMMISSION FXPIRES MARCH 13, 2022

Operator's Well No. Tygart Unit 2H

	nt: Acres Disturbed 43.65 a	rcres Prevegetation p	H processor and the second sec	
	_ Tons/acre or to correct to pl			
Fertilizer type Hay or st	traw or Wood Fiber (will be used	where needed)		
Fertilizer amount 500	11	os/acre		
Mulch 2-3	Tons	'acre		
Access Road "C" (12,23 acres) + We	ell Pad (8.91 acres) + Water Containment I	ed (9.39 acres) + Excess/Topsoil Material Stockpil	e (13.12 acres)= 43.65 Total Affected	
	<u>See</u>	d Mixtures		
Temp	orary	Perm	anent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Annual Ryegrass	40	Crownvetch	10-15	
Field Bromegrass	40	Tall Fescue	30	
See attached Table IV-3 for additional seed to	ype (Page 33 Elk Fork Pad Design)	See attached Table IV-4A for additional seed type (Page 33 Elk Fork Pad Design		
*or type of grass seed reque	ested by surface owner	*or type of grass seed requ	ested by surface owner	
acreage, of the land application a	area.	imensions (L x W x D) of the pit, an	d dimensions (L x w), and	
acreage, of the land application a	7.5' topographic sheet.	intensions (L x w x D) of the pit, an		
acreage, of the land application a	7.5' topographic sheet. agin Blevins			
Plan Approved by:	7.5' topographic sheet. agin Blevins			
Photocopied section of involved	7.5' topographic sheet. agin Blevins			
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Plan Approved by:	area. 7.5' topographic sheet. agin Blavins			
Photocopied section of involved Plan Approved by: Comments: Title: Oil & Gas Inspect	area. 7.5' topographic sheet. agin Blavins			

WV Department of Environmental Protection

Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide - Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

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WV Department of Environmental Protection 13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent – Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite – Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

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NOV 1 2 2020



911 Address 105 Elk Fork Rd Middlebourne, WV 26149

Well Site Safety Plan Antero Resources

) (B 12/11/2020

Well Name: Nucky Unit 1H, Cheat Unit 1H-2H, Tygart Unit 1H-2H &

Yough Unit 1H

Pad Location: Elk Fork Pad

Tyler County/Ellsworth District

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GPS Coordinates:

WV Department of Environmental Protection

Entrance - Lat 39°32′23.6″/Long -80°53′16.1″ (NAD83)

Pad Center - Lat 39°32′28.8″/Long -80°52′14.0″ (NAD83)

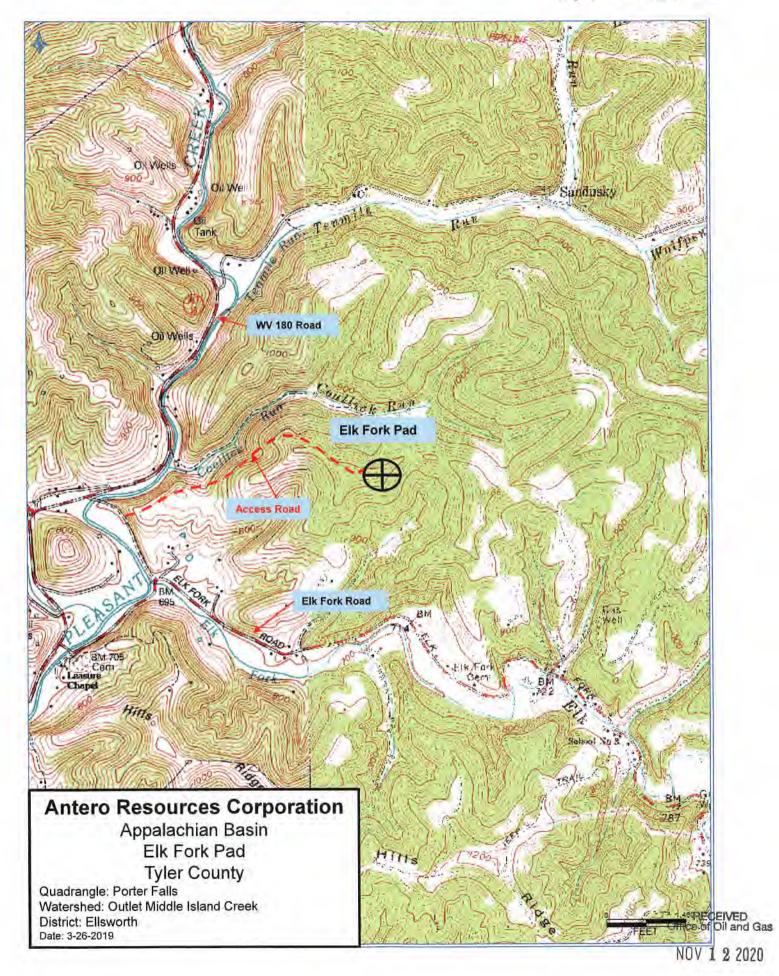
Driving Directions:

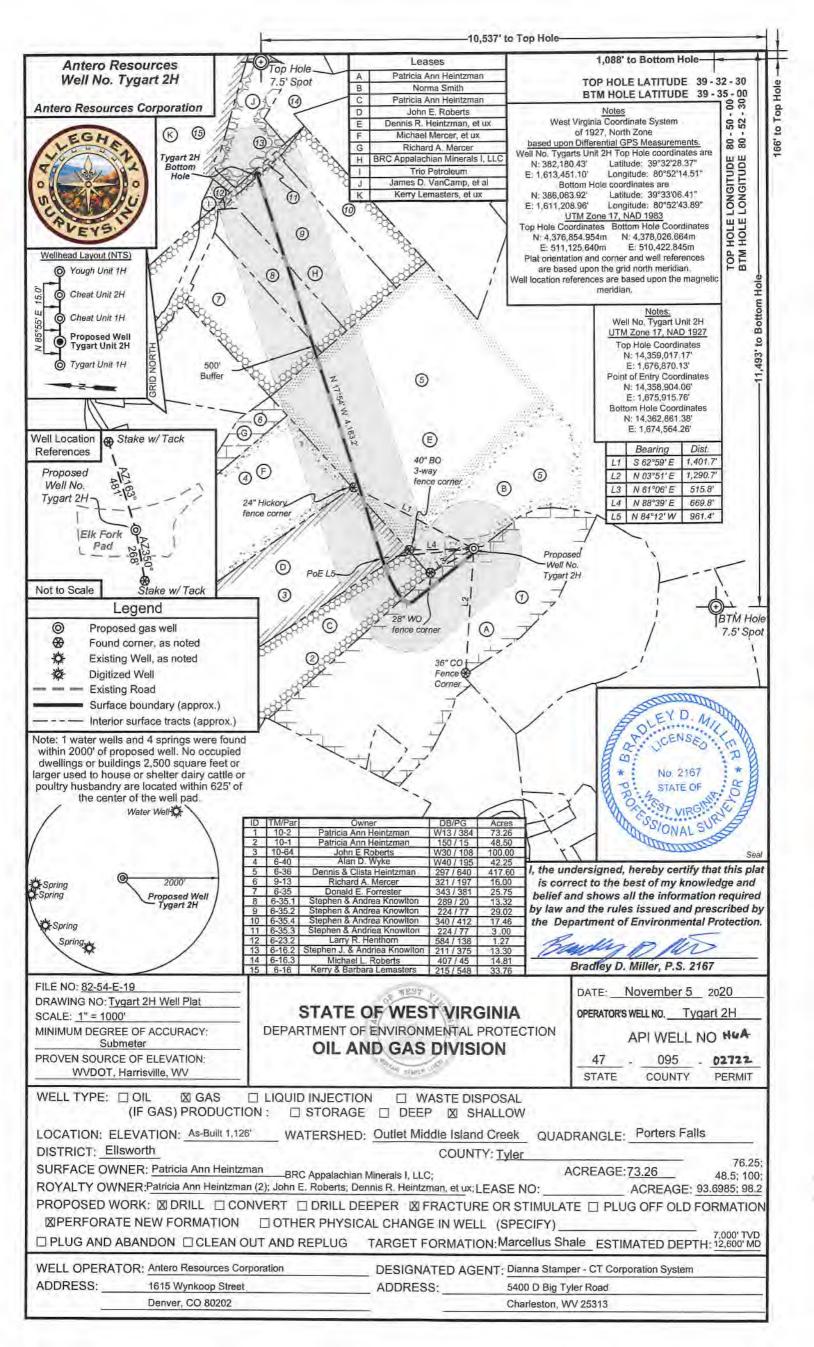
From the U.S Post Office in Middlebourne, head east on Dodd St toward Fair St for 364 ft. Then turn left onto WV-18 N/Main St for 4.2 miles. Turn right onto WV-180N for 0.5 miles, and the lease road will be on your right.

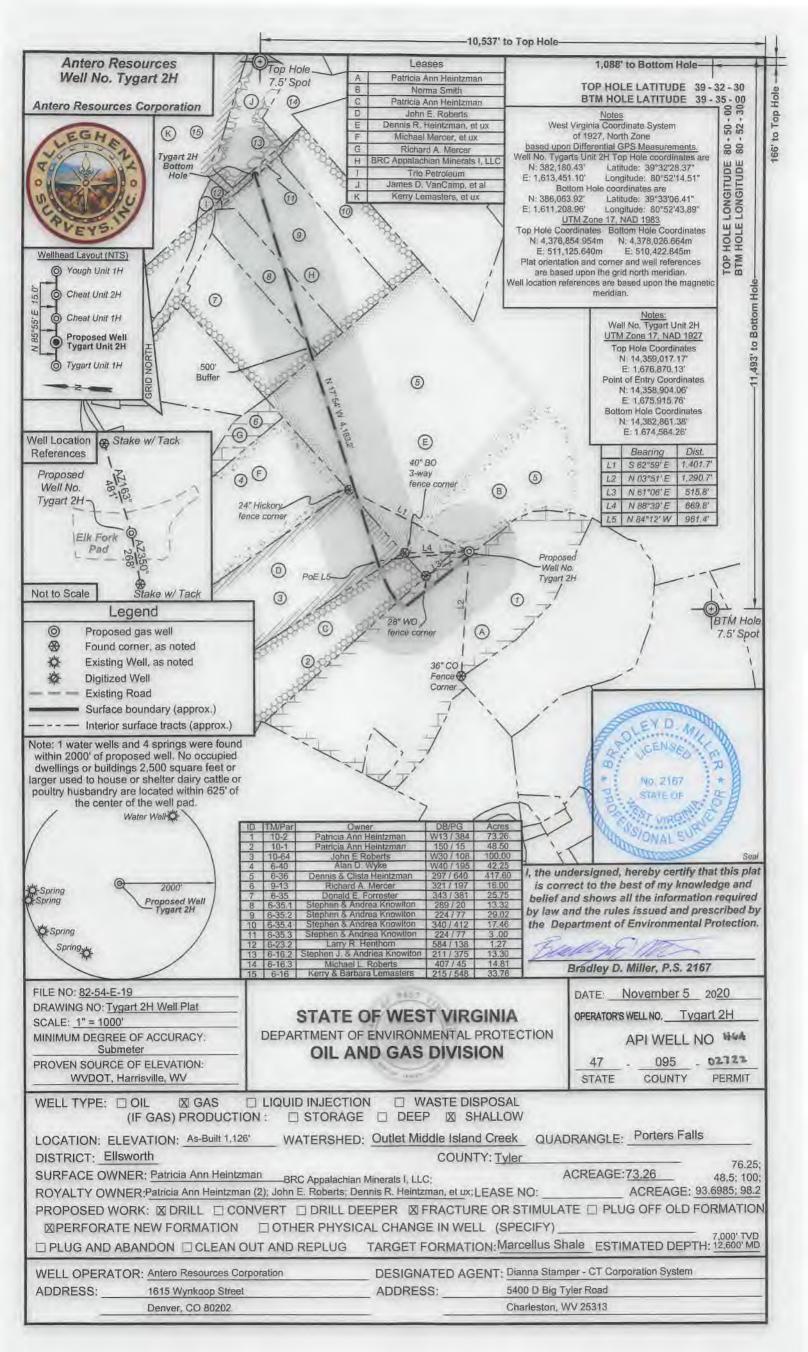
Alternate Route:

From the U.S Post Office in Sistersville, head southeast on Wells St toward Elizabeth St for 72 ft. Turn left at the 1st cross street onto Elizabeth St 272 ft. Elizabeth St turns right and becomes WV-2 S/Chelsea St for 1 mile. Continue straight onto WV-18S for 6.9 miles. Turn left onto WV-18ON for 0.5 miles. Lease road will be on your right.

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







Operator's Well Number

Tygart Unit 2H

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

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

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

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Patricia Ann Heintzman Lease (TM 10 PCL 2)			
Patricia Ann Heintzman	Antero Resources Corporation	1/8+	0594/0309
Patricia Ann Heintzman Lease (TM 10 PCL 21)			
Patricia Ann Heintzman	Antero Resources Corporation	1/8+	0594/0309
John E. Roberts Lease			
John E. Roberts	Stone Energy Corporation	1/8+	0402/0266
Stone Energy Corporation	Antero Resources Corporation	Assignment	0447/0115
Dennis R. Heintzman et ux Lease			
Dennis R. Heintzman et ux	Stone Energy Corporation	1/8+	0397/0726
Stone Energy Corporation	Antero Resources Appalachian Corporation	Assignment	0442/0037
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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^{*}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.

WW-6A1 (5/13)

Operator's Well No.	Tygart Unit 2H
Operator 5 men 110.	

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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- (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
RC Appalachian Minerals I LL	C Lease BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	Assignment	0378/0764
	Statoil USA Onshore Properties EQT Production Company	EQT Production Company Antero Resources Corporation	Assignment Assignment	0539/0239 0663/0001

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

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

Act

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

Well Operator: Antero Resources Corporation

*Co-tenancy utilization – At least 7
mineral owners in tract. At least 75% of
the royalty owners have executed a
lease on the tract. The interests of the
remaining co-tenants were acquired
pursuant to the Co-tenancy

Modernization and Majority Protection

Page 1 of 1 2 2020

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas November 10, 2020

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

RE:

Tygart Unit 2H

THOMAS KUHN

Quadrangle: Porters Falls 7.5'

Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Tygart 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 Tygart Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Thomas Kuhn Senior Landman

Office of Oil and Gas

NOV 1 2 2020

WV Department of Environmental Protection

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

Date of Notice	e Certification: 11/9/20	API No. 47-	- 095 -	
Date of Notic	e certification.		Well No. Tygar	t Unit 2H
			ame: Elk Fork	
Notice has b	neen given:	VV 011 1 000 1 11		
Purcuant to th	e provisions in West Virginia Code	§ 22-6A, the Operator has provided the requ	uired parties w	ith the Notice Forms listed
	tract of land as follows:	3 22 or i, the operator has provided the requ	F	
State:	West Virginia	Easting:	511125.640m	
County:	Tyler	UTM NAD 83 Northing:	4376854.954m	
District:	Ellsworth	Public Road Access:	Elk Fork Road	
Quadrangle:	Porters Falls 7.5'	Generally used farm name:	Patricia Ann Hein	tzman
Watershed:	Outlet Middle Island Creek			
information re of giving the requirements Virginia Code	equired by subsections (b) and (c), s surface owner notice of entry to s of subsection (b), section sixteen	bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the required purvey pursuant to subsection (a), section to of this article were waived in writing by the tender proof of and certify to the secretary to the sec	puirement was en of this artic the surface ow	deemed satisfied as a result cle six-a; or (iii) the notice yner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the requireCK ALL THAT APPLY	perator has attached proof to this Notice Coed parties with the following:	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY OF	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCT		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURVEY WAS CO	ONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			RECEIVED
■ 5. PUI	BLIC NOTICE			☑ RECEIVED
■ 6. NO	TICE OF APPLICATION			RECEIVED

Required Attachments:

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

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Office of Oil and Gas

NOV 1 2 2020

By:

Its:

Certification of Notice is hereby given:

THEREFORE, I Diana Hoff , 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

Diana Hoff

Diana (

Senior VP of Operations

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

Denver, CO 80202

Facsimile: 303-357-7315

Email: mgriffith@anteroresources.com

NOTARY SEAL MEGAN GRIFFITH

NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666

MY COMMISSION EXPIRES MARCH 13, 2022

Subscribed and sworn before me this

Notary Public

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

NOV 1 2 2020

WV Department of Environmental Protection

API NO. 47- 095
OPERATOR WELL NO. Tygart Unit 2H
Well Pad Name: Elk Fork 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 that	n the filing date of permit application.
Date of Notice: 11/10/20 Date Permit Application Filed: 11/10	0[20
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	9(b)
	OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment or pregistered mail or by any method of delivery that requires a receipt of sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, it described in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well proposed well work, if the surface tract is to be used for the placement, constrimpoundment or pit as described in section nine of this article; (5) A have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not Code R. § 35-8-5.7.a requires, in part, that the operator shall also provision of the surface owner subject to notice and water testing	or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the of the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to d (6) The operator of any natural gas storage field within which the see tenants in common or other co-owners of interests described in the neight, article one, chapter eleven-a of this code. (2) Notwithstanding any an anotice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☑ Application Notice☑ WSSP Notice☑ E&S Plan Notice☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: PLEASE SEE ATTACHMENT	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address:	Address:
Name:Address:	COAL OPERATOR Name: NO DECLARATIONS ON RECORD WITH COUNTY Address:
☑ SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name: PLEASE SEE ATTACHMENT	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE
Address:	
Name:	Name: None Within 1500' Address:
Address:	
☐ SURFACE OWNER(s) (Impoundments or Pits) Name:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address:
Address:	
	*Please attach additional forms if necessary RECEIVEL

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Office of Oil and Gas

NOV 1 2 2020

API NO. 47-095 4709502722

OPERATOR WELL NO. Tygart Unit 2H
Well Pad Name: Elk Fork 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 pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the well location restrictions require alteration to address the well alteration to address the well alteration to address the well-between the well-b

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WV Department of

NO. 47-095 7 0 9 5 0 2 7 2 2

OPERATOR WELL NO. Tygart Unit 2H

Well Pad Name: Elk Fork Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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W Department of Environmental Protection

API NO. 47-095 4 7 0 9 5 0 2 7 2 2

OPERATOR WELL NO. Tygart Unit 2H

Well Pad Name: Elk Fork 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.

API NO. 47-095 OPERATOR WELL NO. Tygart Unit 2H

Well Pad Name: Elk Fork Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Email: mgriffith@anteroresources.com Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

MEGAN GRIFFITH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184011666 MY COMMISSION EXPIRES MARCH 13, 2022 Subscribed and sworn before me this

Notary Public.

RECEIVED Office of Oil and Gas

NOV 1 2 2020

WV Department of Environmental Protection

WW-6A Notice of Application Attachment (ELK FORK PAD):

List of Surface Owner(s) with Proposed Disturbance associated with Elk Fork Well Pad:

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

TM 6 PCL 36

Owner:

Dennis & Clista Heintzman

Address:

980 Sand Gap Road

Pennsboro, WV 26145

TM 10 PCL 2

Owner:

Patricia Ann Heintzman

Address:

605 Elk Fork Road

Middlebourne, WV 26149

ROAD AND/OR OTHER DISTURBANCE – These owners has executed a signed Agreement with Antero Resources Corporation. However, they were only notified if their tract is overlying the oil and gas leasehold being developed by the proposed well work as outlined in WV Code 22-6A-10(b)(2).

TM 10 PCL 1

Owner:

Patricia Ann Heintzman

Address:

605 Elk Fork Road

Middlebourne, WV 26149

TM 10 PCL 64

Owner:

John E. Roberts

Address:

433 Elk Fork Road

Middlebourne, WV 26175

TM 6 PCL 40

Owner:

Alan D. Wyke

Address:

544 Veterans Highway

New Martinsville, WV 26155

Office of Oil and Gas

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 Notic	Requirement: Notice shall be provided at l e: 09/16/2020 Date Perm	nit Application Filed: 11/10/2020	permit application.
Delivery met	hod pursuant to West Virginia Code § 22	-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE	RY RETURN RECEIPT REQU	JESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	Y. Va. Code § 22-6A-16(b), at least ten days ted or hand delivery, give the surface owner zontal well: <i>Provided</i> , That notice given put ton as of the date the notice was provided by be waived in writing by the surface owner, facsimile number and electronic mail addressly provided to the SURFACE OWN	er notice of its intent to enter upon the pursuant to subsection (a), section tents to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includes of the operator and the operator	ne surface owner's land for the purpose of in of this article satisfies the requirements rever, That the notice requirements of this dude the name, address, telephone number,
	SE SEE ATTACHMENT	Name: PLEASE SEE ATTAC	HMENT
Address:		Address:	A
State: County:	vner's land for the purpose of drilling a hor West Virginia Tyler	- UTM NAD 83 Easting: Northing:	511125.640m 4376854.954m
District:	Ellsworth	Public Road Access:	Elk Fork Road
22.22.22.24.2	Ellsworth Porter Falls 7.5'	Public Road Access: Generally used farm name:	
District: Quadrangle: Watershed:			Elk Fork Road
Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor	Porter Falls 7,5'	Generally used farm name: notice shall include the name, addreserator and the operator's authorize Secretary, at the WV Department of	Elk Fork Road Patricia Ann Heintzman ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters,
Quadrangle: Watershed: This Notice Pursuant to Macsimile numericated to hor located at 601	Porter Falls 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), this raber and electronic mail address of the opizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3)	Generally used farm name: notice shall include the name, addreserator and the operator's authorize Secretary, at the WV Department of	Elk Fork Road Patricia Ann Heintzman ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters,
Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he	Porter Falls 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), this rather and electronic mail address of the opizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3) reby given by:	Generally used farm name: notice shall include the name, addreserator and the operator's authorize Secretary, at the WV Department of	Elk Fork Road Patricia Ann Heintzman ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Value facsimile nur related to hor located at 601 Notice is he	Porter Falls 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), this rather and electronic mail address of the opizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3) reby given by:	Generally used farm name: notice shall include the name, addresserator and the operator's authorize Secretary, at the WV Department of 04-926-0450) or by visiting www.de	Elk Fork Road Patricia Ann Heintzman ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed: This Notice Pursuant to Value facsimile numerelated to hor located at 601 Notice is he Well Operato	Porter Falls 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), this rather and electronic mail address of the orizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3the preby given by: The Antero Resources Appalachian Corporation	Generally used farm name: notice shall include the name, addreserator and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.de	Elk Fork Road Patricia Ann Heintzman ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Megan Griffith
Quadrangle: Watershed: This Notice Pursuant to Value facsimile numerelated to hor located at 601 Notice is he Well Operato Address:	Porter Falls 7.5' Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), this rather and electronic mail address of the opizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3treby given by: Antero Resources Appalachian Corporation 1615 Wynkoop St.	Generally used farm name: notice shall include the name, addreserator and the operator's authorized Secretary, at the WV Department of 04-926-0450) or by visiting www.de	Elk Fork Road Patricia Ann Heintzman ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Megan Griffith 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 busine processes needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Office of Field and Gas 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: 2-6-36

Owner: Dennis & Clista Heintzman

Address: 7223 Tyler Highway

Sistersville, WV 26175

Tax Parcel ID: 2-10-2

Owner: Patricia Ann Heintzman

Address: 605 Elk Fork Road

Middlebourne, WV 26149

Tax Parcel ID: 2-10-64

Owner: John E. Roberts Address: 433 Elk Fork Road

Middlebourne, WV 26175

Tax Parcel ID: 2-6-40

Owner: Alan D. Wyke

Address: 544 Veterans Highway

New Martinsville, WV 26155

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

Date of Notice	Requirement: notice shall be provide: 11/10/2020 Date Pern		plication Filed: 11/2		application.	
Delivery met	thod pursuant to West Virginia Co	de § 2	2-6A-16(c)			
■ CERTI	FIED MAIL	П	HAND			
	RN RECEIPT REQUESTED		DELIVERY			
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	W. Va. Code § 22-6A-16(c), no later requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed he surface affected by oil and gas ope es required by this section shall be gi	surfaction surfactions to the surfaction to the	the owner whose land bsection shall incluate this article to a surface use and compens to the extent the data the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drilling of a of this code secti se land will be used to containing an of pensable under art	horizontal well notice of on; (2) The information d in conjunction with the ffer of compensation for icle six-b of this chapter.
(at the addres	eby provided to the SURFACE OV s listed in the records of the sheriff at		me of notice):			
The second second	SEE ATTACHMENT			PLEASE SEE ATTAC	CHMENT	
Address:			Addres	3;		
State: County: District:	the surface owner's land for the purp West Virginia Tyler Ellsworth		UTM NAD 8	Basting: Northing: Access:	511125.640m 4376854.954m Elk Fork Road	
Quadrangle: Watershed:	Porters Falls 7.5'		Generally use	ed farm name:	Patricia Ann Heintzman	1
This Notice S Pursuant to V to be provide norizontal we	Shall Include: Vest Virginia Code § 22-6A-16(c), the d by W. Va. Code § 22-6A-10(b) to the colling of the colli	to a su	irface owner whose opensation agreeme	land will be int containing ar	used in conjunction offer of compens	on with the drilling of a sation for damages to the
information r	ted by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, Cault.aspx.	obtain	ned from the Secret	ary, at the WV	Department of E	nvironmental Protection ww.dep.wv.gov/oil-and-
Well Operato	r: Antero Resources Corporation		Address:	1615 Wynkoop Stre	eet	Office of Oil and Ga
Telephone:	(303) 357-7310		-	Denver, CO 80202		NOV 1 2 2020
Email:	mgriffith@anteroresources.com		Facsimile:	303-357-7315		MALE
	Privacy Notice:					Environmental Protection

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

WW-6A5 Notice of Planned Operation to Surface Owner Attachment:

Surface Owners:

Tax Parcel ID: 2-6-36

Owner:

Dennis & Clista Heintzman

Address:

7223 Tyler Highway Sistersville, WV 26175

Tax Parcel ID: 2-10-2

Owner:

Patricia Ann Heintzman

Address:

605 Elk Fork Road

Middlebourne, WV 26149

Tax Parcel ID: 2-10-64

Owner:

John E. Roberts

Address:

433 Elk Fork Road

Middlebourne, WV 26175

Tax Parcel ID: 2-6-40

Owner:

Alan D. Wyke

Address:

544 Veterans Highway

New Martinsville, WV 26155

Office of Oil and Gas

NOV 1 2 2020

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

November 9, 2020

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

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

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 Elk Fork Pad, Tyler County Tygart Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0767 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 11/6 SLS MP 0.33.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Meg

Megan Griffith Antero Resources CH, OM, D-6 File Office of Oil and Gas

NOV 1 2 2020

WW Department of Environmental Protection

List of Anticipated Additives Used for Fracturing or Stimulating Well 4709502722

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 Envir
Polyethylene polyamine	68603-67-8
Coco amine	61791-14-8
2-Propyn-1-olcompound with methyloxirane	38172-91-7

Office of Oil and Gas
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FIK FORK WELL PAD & WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN.

-WATER CONTAINMENT PAD WELL PAD

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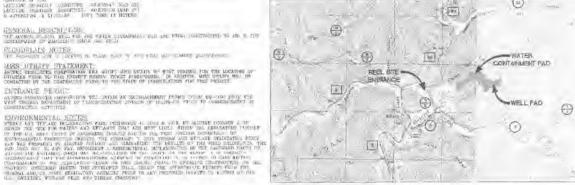
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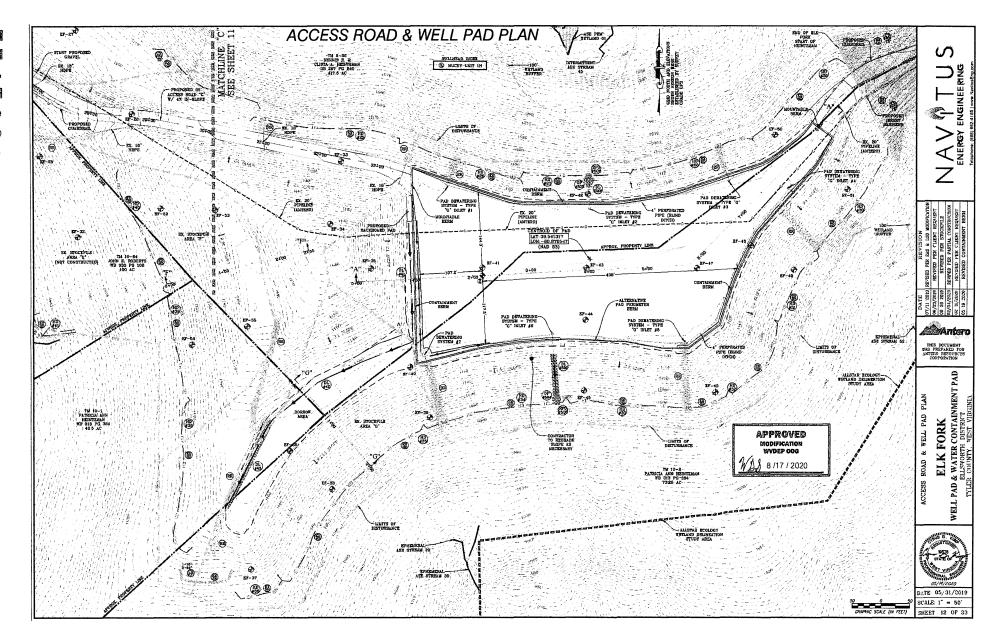
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WATER CONTAINMENT PAD SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

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- PROPOSED SITE

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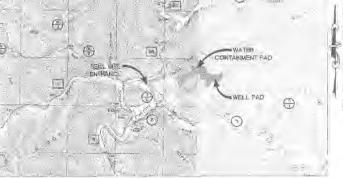
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