

west virginia department of environmental protection

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

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

Wednesday, March 16, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re:

Permit approval for OXFORD 98 5H

47-017-06921-00-00

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 (3.04) 926-0450,

Operator's Well Number: OXF 98 UNIT 5H

Farm Name: MICHAEL R BRITTON & ANG

U.S. WELL NUMBER: 47-017-06921-00-00

Horizontal 6A New Drill Date Issued: 3/16/2022

Promoting a healthy environment.

API Number:	
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PERMIT CONDITIONS

4701706921

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

CONDITIONS

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

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PERMIT CONDITIONS

4701706921 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.

WW-6B (04/15) API NO. 47-07 - Staff OLG 2 I
OPERATOR WELL NO. Oxford 98 Unit 5H
Well Pad Name: Oxford 98 Pad

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

1) Well Operator:	Antero Res	ources Co	rporal	4945	07062	017 - Doddgi	West Uni	West Union 7.5'
				Oper	ator ID	County	District	Quadrangle
2) Operator's Well 1	Number: Ox	ford 98 Un	it 5H		_ Well Pad	Name: Oxfor	d 98 Pad	
3) Farm Name/Surfa	ace Owner:	Michael R. Britton	& Angela	D. Pratt	Public Road	d Access: US	Route 50	
4) Elevation, current	ground:	1116'	Ele	evation	, proposed p	oost-constructi	on:	
5) Well Type (a) Otho		C	oil		Unde	rground Stora	ge	
(b)ІІ		$\frac{X}{\text{izontal}}$			Deep			50W 2/25/2028
6) Existing Pad: Yes	or No No				-			2/25/2022
7) Proposed Target I Marcellus Shale: 7	Formation(s) '100' TVD, A), Depth(s), nticipated Ti	Antici nicknes	pated T ss- 55 fe	Thickness ar	nd Expected Prited Pressure- 2	ressure(s): 850#	
8) Proposed Total V	ertical Deptl	h: 7100' T	VD					
9) Formation at Tota	l Vertical D	epth: Mar	cellus					
10) Proposed Total N	Measured De	pth: 7100	0,					
11) Proposed Horizo	ntal Leg Le	ngth: 0' *	Open	to mod	lification at	a later date		
12) Approximate Fre	esh Water St	rata Depths	:	341'				
13) Method to Deten 14) Approximate Sal		-	hs: 47	-017-02837	Offisel well records	Depths have been edju	sled according to a	irface elevations.
15) Approximate Co	al Seam Dep	oths: 120'						
16) Approximate De	pth to Possil	ole Void (co	al min	ne, kars	t, other): N	one Anticipat	ed	
17) Does Proposed w directly overlying or	ell location adjacent to	contain coa an active mi	l seam ine?	is Y	es	No	X	
(a) If Yes, provide l	Mine Info:	Name:						
		Depth:						
		Seam:						
		Owner:						

Page 1 of 3

WW-6B (04/15) API NO. 47- 017

OPERATOR WELL NO. Oxford 98 Unit 5H
Well Pad Name: Oxford 98 Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	79#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	391'	391'	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	7100'	7100'	CTS, 1546 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#	- 41		
Liners					Sederal and the second		

5010

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement <u>Yield</u> (cu. fl./k)
Conductor	20"	24"	0.375"	2250	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"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

WW-6B (10/14) API NO. 47- 617 OPERATOR WELL NO. Oxford 98 Unit 5H
Well Pad Name: Oxford 98 Pad

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

Drill a new horizontal shallow well into the Marcellus Shale. Vertical section only at this time.

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.47 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 5.73 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: Tall cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

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

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

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water. Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

Page 3 of 3

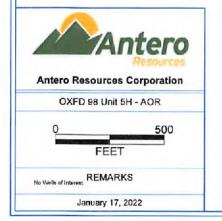


OXFD 98 5H

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FEB 7 2022

WV Department of Environmental Protection



03/18/2022

WW-9 (4/16)

API Number 47 - 017

Operator's Well No. Oxford 98 Unit 5H

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) Headwaters Middle Island Creek Quadrangle West Union 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes V No
Will a pit be used? Yes No 🗸
If so, please describe anticipated pit waste: Ma pit will be used in this size (Defining and Floridack Fluids will be stoned in these. Cuttings will be liveled and headed off size)
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A SD W Proposed Disposal Method For Treated Pit Wastes: Land Application Z(25/2027)
Land Application Z/25 (2020
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 Wetzel County Landfill (Permit # SWF-1021)
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Section - Malforentables, intermediate- confidence - Malforentables, intermediate-
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Please See Attachment
Drill cuttings disposal method? Leave in pit, landfill, removed 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 used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Messowiii Landfill (Permit #SWF-1032-95), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Wetzel County Landfill (Permit # SWF-1021) 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 Gretchen Kohler
Company Official (Typed Name) Gretchen Kohler
Company Official Title Director Environmental & Regulatory Compliance
Subscribed and swom before me this 3 day of February , 2022
My commission expires Notary Public DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO HOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024

Form WW-9

Operator's TV-II No. Oxford 98 Unit 5H

Proposed Revegetation Treatme	ent: Acres Disturbed 24.47 a	ocres Prevegetation	рН	
Lime 2-4	_ Tons/acre or to correct to pl	6.5		
Fertilizer type Hay or s	straw or Wood Fiber (will be used	where needed)		
Fertilizer amount 500		bs/acre		
Mulch 2-3	Tons/			
Tank Pad Acreas	c (2.43 acres) + Well Pad Acresge (5.73 ac Access	res: + Stockyile Acreage (4.60 seres) + Tank Pac (10.51 seres) = 24.47 Acres	Access (1.18 acres) + Well Pad	
	See	d Mixtures		
Тетр	orary	Per	manent	
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 type (Oxford 98 Pad Design)		See attached Table IV-4A for additional seed type (Oxford 98 Pad Design)		
or type of grass seed requested by surface owner				
attach: Maps(s) of road, location, pit and rovided). If water from the pit water creage, of the land application a	d proposed area for land applic will be land applied, include di area	*or type of grass seed requation (unless engineered plans increasions (L x W x D) of the pit, a	luding this info have been	
attach: faps(s) of road, location, pit and rovided). If water from the pit v	d proposed area for land applic will be land applied, include di area	ation (unless engineered plans inc mensions (L x W x D) of the pit, a	luding this info have been	
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Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

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

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend - LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose – Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion - Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

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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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Office of Oil and Gas

FEB 7 2022

WV Department of Environmental Protection

03/18/2022



911 Address 1394 Punkin Center Road West Union, WV 26456

Well Site Safety Plan Antero Resources

Well Name: Oxford 98 Unit 5H

Pad Location: OXFORD 98 PAD

Doddridge County/West Union District

GPS Coordinates:

Entrance - Lat 39°15'22.71"/Long -80°47'30.61" (NAD83)

Pad Center - Lat 39°15'11.24"/Long -80°47'58.20" (NAD83)

Driving Directions:

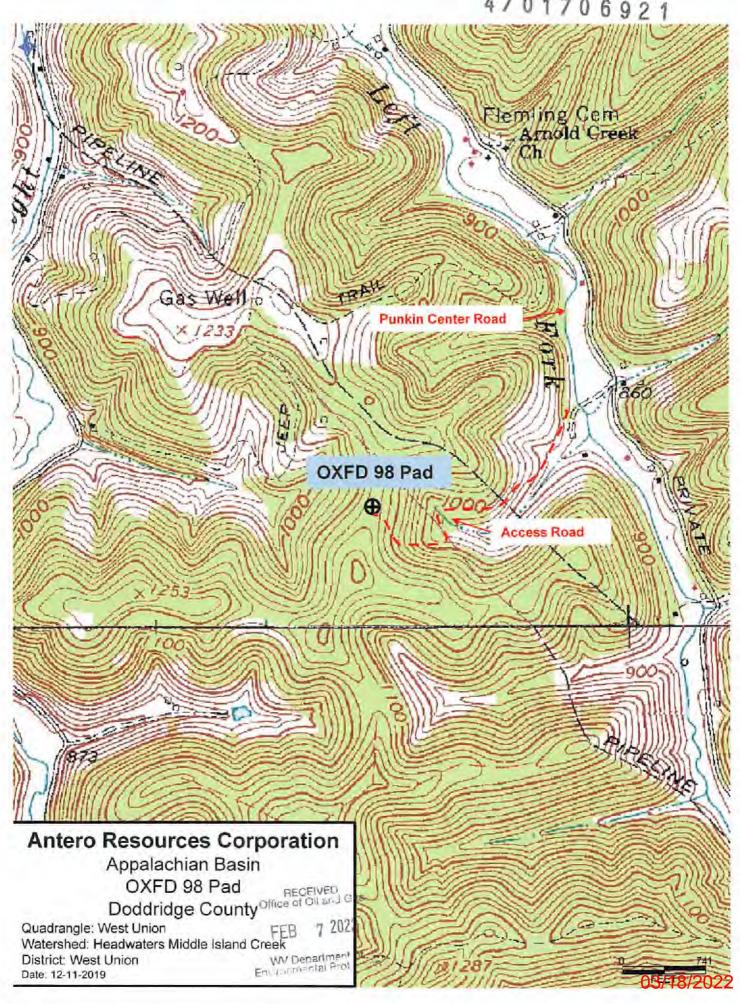
From Doddridge High School: Go west on IS-50 W for 1.3 miles - turn left onto Arnolds Creek Road/Central Station Road/Right Fork Run Road for 0.7 miles - continue straight onto Left Fork Run Road for 1.5 miles - lease road will be on the right.

Alternate Route:

From West Union: Head north on Neely Ava toward Marie Street/Old US 50E for 36 feet - turn left at the 1st cross street onto Marie Street/Old US 50 W for 2.3 miles - turn right onto US 50 for 0.4 miles - continue straight onto Left Fork Run Road for 1.5 miles - lease road will be on the right.

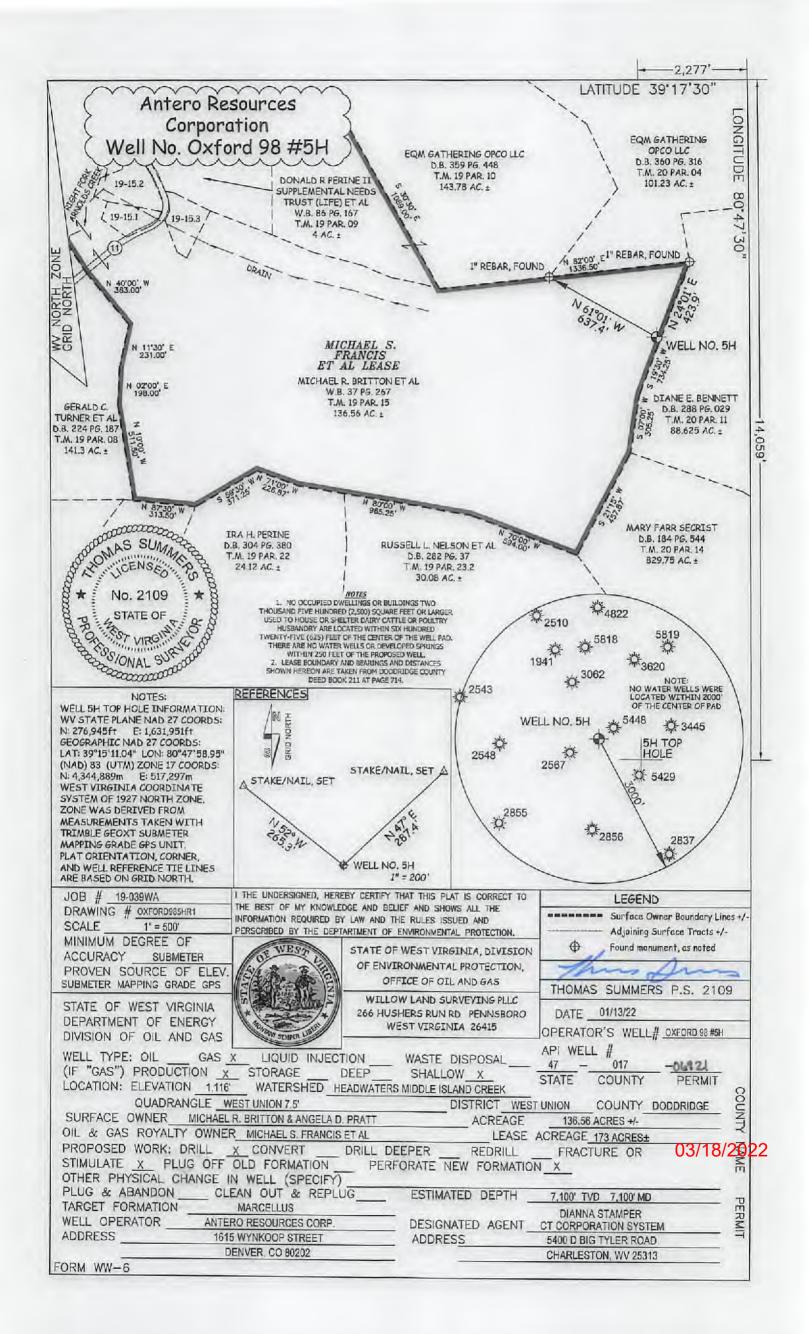
EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

1



4701706921 391730 Antero Resources ONG Corporation Well No. Oxford 98 #5H EQM GATHERING OPCO LLC D.B. 360 PG. 316 FOM GATHERING OPCOILC D.B. 359 PG. 448 T.M. 19 PAR. 10 T.M. 20 PAR. 04 101,23 AC. ± DONALD R PERINE II 19-15.2 143.78 AC. : SUPPLEMENTAL NEEDS TRUST (LIFE) ET AL W.B. 86 PG. 167 T.M. 19 PAR. 09 4 AC. ± 19-15.1 19-15 3 47 30 N 82'00' E1" REBAR, FOUND I" REBAR, FOUND 40'00', W NORTH ID NORTH 888 MICHAEL S. FRANCIS ET AL LEASE WELL NO, 5H MICHAEL R. BRITTON ET AL W.B. 37 PG. 267 02'00' E 198.00' DIANE E. BENNETT T.M. 19 PAR. 15 D.B. 288 PG. 029 T.M. 20 PAR, 11 GERALD C. 136.56 AC. ± TURNER ET AL D.B. 224 PG. 187 14,059 88.625 AC. : 141.3 AC. + MARY FARR SECRIST IRA H. PERINE D.B. 304 PG. 380 NAS SUMME D.B. 184 PG, 544 RUSSELL L. NELSON ET AL T.M. 20 PAR. 14 T.M. 19 PAR, 22 D.B. 282 PG. 37 829.75 AC. ± T.M. 19 PAR. 23.2 24.12 AC. ± 30.08 AC. ± NOTES

1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL POLITHER ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE PROPOSED WELL 2. LEASE BOUNDARY AND BEARINGS AND DISTANCES SHOWN HEREON ARE TAKEN FROM DODDRIDGE COUNTY DEED BOOK 211 AT PAGE 714. ONAL SUF 禁4822 2510 5818 1941 ³3620 3062 NOTE: NO WATER WELLS WERE LOCATED WITHIN 2000' OF THE CENTER OF PAD 2543 REFERENCES WELL 5H TOP HOLE INFORMATION: WV STATE PLANE NAD 27 COORDS: **☆**5448 NORTH WELL NO. 5H 禁 3445 N: 276,945ft E: 1,631,951ft GEOGRAPHIC NAD 27 COORDS: 5H TOP HOLE GRID LAT: 39°15'11.04" LON: 80°47'58.95" (NAD) 83 (UTM) ZONE 17 COORDS: 2548 2567 STAKE/NAIL, SET 5429 N: 4,344,889m E: 517,297m WEST VIRGINIA COORDINATE STAKE/NAIL, SET SYSTEM OF 1927 NORTH ZONE ZONE WAS DERIVED FROM N281 A 2855 MEASUREMENTS TAKEN WITH ** 2856 TRIMBLE GEOXT SUBMETER 2837 MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, WELL NO. 5H AND WELL REFERENCE TIE LINES 1" = 200 ARE BASED ON GRID NORTH THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO JOB # 19-039WA LEGEND THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE DRAWING # DXFORD985HR1 Surface Owner Boundary Lines +/-INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND SCALE 1" = 500" Adjoining Surface Tracts +/-PERSCRIBED BY THE DEPTARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF 0 Found monument, as noted STATE OF WEST VIRGINIA, DIVISION ACCURACY SUBMETER OF ENVIRONMENTAL PROTECTION, PROVEN SOURCE OF ELEV. OFFICE OF OIL AND GAS SUBMETER MAPPING GRADE GPS THOMAS SUMMERS P.S. 2109 WILLOW LAND SURVEYING PLIC STATE OF WEST VIRGINIA 01/13/22 266 HUSHERS RUN RD PENNSBORO DATE DEPARTMENT OF ENERGY WEST VIRGINIA 26415 OPERATOR'S WELL# OXFORD 98 #5H DIVISION OF OIL AND GAS API WELL # GAS X LIQUID INJECTION WASTE DISPOSAL 017 47 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT WATERSHED HEADWATERS MIDDLE ISLAND CREEK LOCATION: ELEVATION 1,116 QUADRANGLE WEST UNION 7.5 DISTRICT WEST UNION COUNTY DODDRIDGE SURFACE OWNER MICHAEL R. BRITTON & ANGELA D. PRATT ACREAGE 136.56 ACRES +/-OIL & GAS ROYALTY OWNER MICHAELS, FRANCIS ET AL LEASE ACREAGE 173 ACRES± 03/18/20**2** PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
PLUG & ABANDON ____ CLEAN OUT & REPLUG ESTIMATED DEPTH 7,100' TVD 7,100' MD TARGET FORMATION MARCELLUS DIANNA STAMPER WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM **ADDRESS** 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD **DENVER, CO 80202** CHARLESTON, WV 25313 FORM WW-6



Operator's Well Number

Oxford 98 Unit 5H

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
Michael Francis, et al Lease			
Michael Francis, et al	Key Oil Company	1/8	0106/0273
Key Oil Company	Columbia Gas Transmission Corporation	Assignment	0115/0436
Columbia Gas Transmission Corporation	Columbia Natural Resources Inc	Assignment	0161/0068
Columbia Natural Resources Inc	Columbia Natural Resources LLC	Name Change	0256/0588
Columbia Natural Resources LLC	Chesapeake Appalachia LLC	Merger	0264/0447
Chesapeake Appalachia LLC	CNX Gas Company	Assignment	0372/0585
CNX Gas Company	Antero Resources Corporation	Assignment	0387/0216

RECEIVED
Office of Oil and Gas

FEB 7 2022

WV Department of Environmental Protection

^{*}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.	Oxford 98 Unit 5H

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
Michael Francis, et al Lease	1			
	Michael Francis, et al	Key Oil Company	1/8	0106/0273
	Key Oil Company	Columbia Gas Transmission Corporation	Assignment	0115/0436
	Columbia Gas Transmission Corporation	Columbia Natural Resources Inc	Assignment	0161/0068
	Columbia Natural Resources Inc	Columbia Natural Resources LLC	Name Change	0256/0588
	Columbia Natural Resources LLC	Chesapeake Appalachia LLC	Merger	0264/0447
	Chesapeake Appalachia LLC	CNX Gas Company	Assignment	0372/0585
	CNX Gas Company	Antero Resources Corporation	Assignment	0387/0216

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

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

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

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

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

Well Operator:	Antero Resources Corporation	RECEIVED Office of Oil and Gas
By:	Tim Rady Led	FEB 7 2022
Its:	VP of Land	
		WV Department of Environmental Protection

Page 1 of 1



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

February 1, 2022

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

RE:

Oxford 98 Unit 5H

Quadrangle: West Union 7.5'

Doddridge County/West Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Oxford 98 Unit 5H 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 Oxford 98 Unit 5H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Adams Landman

> RECEIVED Office of Oil and Gas

> > FEB 7 2022

WV Department of Environmental Protection

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

Date of Notic	ce Certification: 02/02/2022	API No. 4/- 01/ -		
		Operator's Well No. o		
		Well Pad Name: Oxfo	rd 98 Pad	
Notice has	been given:			
		§ 22-6A, the Operator has provided the required partie	s with the Notice Forms listed	
	tract of land as follows:			
State:	West Virginia	UTM NAD 83 Easting: 517297m	517297m 4344889m	
County:	Doddridge	Northing: 4344889m		
District:	West Union	Public Road Access: US Route 50		
Quadrangle:	West Union 7.5'	Generally used farm name: Michael R. Br	tton, et al	
Watershed:	Headwaters Middle Island Creek			
it has provid information r of giving the requirements Virginia Cod	ed the owners of the surface descr required by subsections (b) and (c), s surface owner notice of entry to s of subsection (b), section sixteen	shall contain the following information: (14) A certific ribed in subdivisions (1), (2) and (4), subsection (b), section sixteen of this article; (ii) that the requirement was survey pursuant to subsection (a), section ten of this a of this article were waived in writing by the surface tender proof of and certify to the secretary that the not ant.	section ten of this article, the ras deemed satisfied as a resulticle six-a; or (iii) the notion owner; and Pursuant to We	
that the Ope	West Virginia Code § 22-6A, the O erator has properly served the requir ECK ALL THAT APPLY	perator has attached proof to this Notice Certification red parties with the following:	OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY 0	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/	
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or NO PLAT SURVEY WAS CONDUCTED	□ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		
■ 4. NO	TICE OF PLANNED OPERATION		☐ RECEIVED	
■ 5. PUI	BLIC NOTICE	Office of Oil and Ga	s RECEIVED	
■ 6. NO	TICE OF APPLICATION	FEB 7 2022	RECEIVED	
		W Department of		
		Environmental Protect	ion	

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.

By:

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 O. Ho

Its: Senior VP of Operations

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: mstanton@anteroresources.com

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

Subscribed and sworn before me this ____ day of _____ 2022.

Oigne Blair

Notary Public

My Commission Expires

27 Apr 2024

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 and Gas

FEB 7 2022

WV Department of Environmental Protection

4701706921
API NO. 47-017 - 706921
OPERATOR WELL NO. Oxford 98 Unit 5H
Well Pad Name: Oxford 98 Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE OF APPLICATION}}{\text{NOTICE OF APPLICATION}}$

Notice Time Require	ment: notice shall be provi	ded no late	er than the filing date of permit application.		
Date of Notice: 02/03/2 Notice of:	Date Permit Applica	tion Filed:	02/03/2022		
PERMIT FOR A	NY D CERTIFI	CATE OF	APPROVAL FOR THE		
WELL WORK			OF AN IMPOUNDMENT OR PIT		
Delivery method pur	rsuant to West Virginia Co	ode § 22-6	A-10(b)		
☐ PERSONAL	REGISTERED	☑ M	ETHOD OF DELIVERY THAT REQUIRES A		
SERVICE	MAIL	R	ECEIPT OR SIGNATURE CONFIRMATION		
sediment control plant the surface of the tract oil and gas leasehold by described in the erosion operator or lessee, in the more coal seams; (4) To well work, if the surfact impoundment or pit as have a water well, spriprovide water for consproposed well work act subsection (b) of this streeords of the sheriff in provision of this article Code R. § 35-8-5.7.a.	required by section seven of to on which the well is or is proposed by the proposed and sediment control plants are event the tract of land on which event the tract of land on which event is to be used for the proposed for the proposed and the section of the section of the section of the proposed for the propos	this article, opposed to be sed well we submitted p which the wourface tract clacement, of this article; cated within stic animals of more than ands, the apsuant to see ien holder in the state of the second of th	reipt or signature confirmation, copies of the application, the and the well plat to each of the following persons: (1) The or elecated; (2) The owners of record of the surface tract or trook, if the surface tract is to be used for roads or other land of pursuant to subsection (c), section seven of this article; (3) To rell proposed to be drilled is located [sic] is known to be under tracts overlying the oil and gas leasehold being developed construction, enlargement, alteration, repair, removal or abact (5) Any surface owner or water purveyor who is known to a one thousand five hundred feet of the center of the well pass; and (6) The operator of any natural gas storage field within a three tenants in common or other co-owners of interests deplicant may serve the documents required upon the person of the center of the well pass to eight, article one, chapter eleven-a of this code. (2) No is not notice to a landowner, unless the lien holder is the lands provided the Well Site Safety Plan ("WSSP") to the surfaction as provided in section 15 of this rule.	owners of nacts overlyi listurbance the coal own derlain by o d by the pro ndonment of the applican d which is n which the escribed in lescribed in twithstandindowner. W	ecord of ing the as ner, one or opposed of any int to used to e in the ing any in Va.
☐ Application Notic	ee 🛮 WSSP Notice 🗆 E&	S Plan N	otice Well Plat Notice is hereby provided to:		
SURFACE OWNE			□ COAL OWNER OR LESSEE		
Name: Diane E. Benne Address: 106 Cheuvront			Name: NO DECLARATIONS ON RECORD WITH COUNTY		
West Union, WV		-	Address:		
Name: Michael R. Britto		_	COAL OPERATOR		
Address: 138 Cascara Ro	pad		Name: NO DECLARATIONS ON RECORD WITH COUNTY		
Salem, WV 2642			Address:		
	R(s) (Road and/or Other Di		- WARREN BURYENIARA VARIANTER WITH		
Name:		-	WATER PURVEYOR(s) OF WATER WELL,	I.	
Address.		-	SPRING OR OTHER WATER SUPPLY SOURC Name: NONE IDENTIFIED WITHIN 1500'	E	
Name:		-	Address:		
Address:			Titulicasi		
	R(s) (Impoundments or Pits		OPERATOR OF ANY NATURAL GAS STOR Name:		PIVED Oil and Gas
Name:			Address:		7 2022
Address.			*Please attach additional forms if necessary		
				WV Dep Environme	partment of intal Protection

470170692

OPERATOR WELL NO. Oxford 98 Unit 5H

Well Pad Name: Oxford 98 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 the items

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OPERATOR WELL NO. Oxford 98 Unit 5H
Well Pad Name: Oxford 98 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.

4701706921

OPERATOR WELL NO. Oxford 98 Unit 5H
Well Pad Name: Oxford 98 Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED Office of Oil and Gas

FEB 7 2022

WV Department of Environmental Protection

API NO. 47-017 OPERATOR WELL NO. Oxford 98 Unit 5H Well Pad Name: Oxford 98 Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

(303) 357-7310 Diana (Telephone: mstanton@anteroresources.com Email:

Address: 1615 Wynkoop Street Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

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

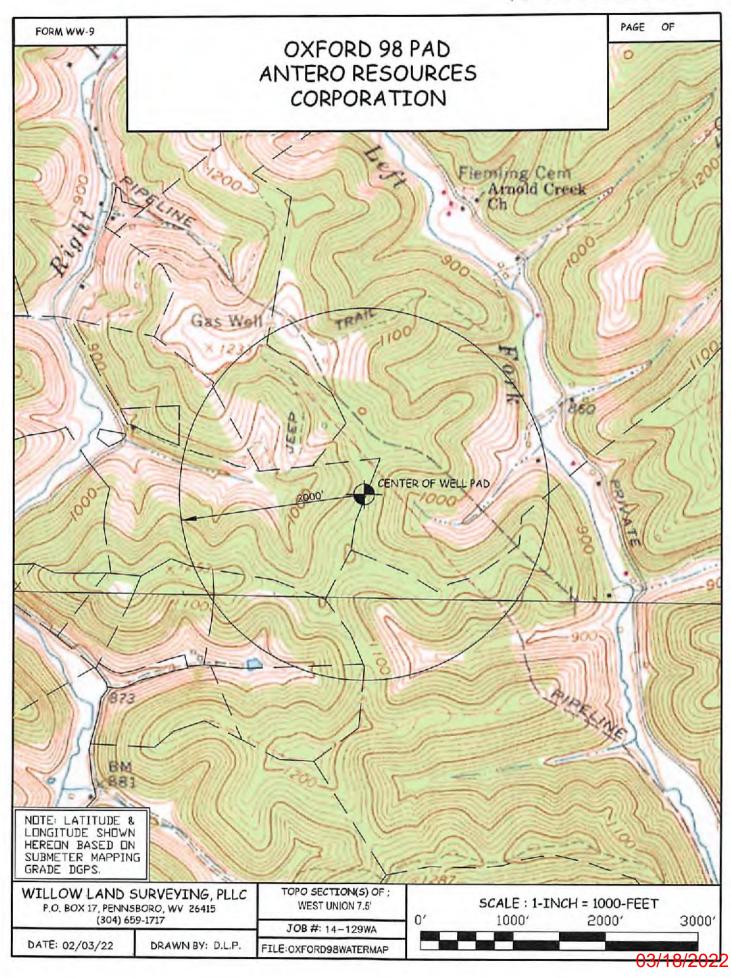
DIANE BLAIR **NOTARY PUBLIC** STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 2 day of Eb, 2022.

My Commission Expires 27 Apr (2024

RECEIVED Office of Oil and Gas

FEB 7 2022

WV Department of Environmental Protection



Operator Well No. Oxford 98 Unit 5H Multiple Wells on Oxford Pad

4701706921

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		ce shall be provided at l	least TEN (10) days p nit Application Filed	rior to filing a	permit application.
Delivery met	hod pursuant to V	/est Virginia Code § 22	2-6A-16(b)		
☐ HAND	■ CE	RTIFIED MAIL			
		TURN RECEIPT REQ	HESTED		
DELIVE	KY KE	TUKN RECEIPT REQ	DESTED		
receipt reques drilling a hort of this subsec subsection ma and if availab	ted or hand deliver zontal well: Provi tion as of the date t by be waived in wri le, facsimile number	y, give the surface owner ded, That notice given pure the notice was provided ting by the surface owner.	er notice of its intent to bursuant to subsection to the surface owner: er. The notice, if requ dress of the operator a	o enter upon the (a), section to Provided, howaired, shall incl	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	e E. Bennett	the BUILTAGE OTT	Name:	Michael R. Britto	on & Angela D Praatt
Address: 1390			Address:	138 Cascara Road	
	Union, WV 26456-1161			Salem, WV 26426-6	6278
State: County: District: Quadrangle:	West Virginia Doddridge West Union West Union 7.5'		UTM NAD 83 Public Road Ac Generally used		517297m 4344889m US Route 50 Michael R, Britton, et al
Watershed:	Headwaters Middle Isla	nd Creek	_		
Pursuant to V facsimile nur related to hor	nber and electronic izontal drilling ma	mail address of the or y be obtained from the	perator and the opera Secretary, at the WV	tor's authorize Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	reby given by:				
	: Antero Resources A	ppalachian Corporation	Authorized F	epresentative:	Mallory Stanton
Address:	1615 Wynkoop St.		Address:		1615 Wynkoop St.
	Denver, CO 80202				Denver, CO 80202
Telephone:	303-357-7310		Telephone:		303-357-7310
Email:	mstanton@anterore	sources.com	Email:		mstanton@anteroresources.com
Facsimile:	303-357-7315		Facsimile:		303-357-7315

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WW-6A5 (1/12) Operator Well No. Oxford 98 Unit 5H

4701706921

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

		equirement: notice shall be provi-	ded no later than the fil mit Application Filed:	ing date of permi 02/03/2022	t application.
Deliv	ery meth	od pursuant to West Virginia Co	ode § 22-6A-16(c)		
	CEPTIEI	ED MAIL	☐ HAND		
		RECEIPT REQUESTED	DELIVERY		
return the p required drillin dama (d) To of no Notice (at the Name Addre	ant to W. I receipt relationed opered to be paged to the me notices since. e is hereby the series of the mess: Diane West U	Va. Code § 22-6A-16(c), no late equested or hand delivery, give the eration. The notice required by provided by subsection (b), section orizontal well; and (3) A proposed surface affected by oil and gas op required by this section shall be go provided to the SURFACE O' listed in the records of the sheriff at E. Bennett unkin Center Rd nion, WV 26456-1161	er than the date for filitie surface owner whose this subsection shall in ten of this article to a disurface use and comerations to the extent the given to the surface own the time of notice): National Additional Control of the surface own the time of notice of the surface own the time of notice of the surface own the surface of the surface of the surface of the surface own the	land will be used include: (1) A copy surface owner who pensation agreement admages are conner at the address I me: Michael R. Britton dress: 138 Cascara Ros Salem, WV 2642	ad
opera	tion on th	ne surface owner's land for the pur		ontal well on the ti	ract of land as follows:
State	_	West Virginia	UTM NA	AD 83 Easting:	517297m
Coun		Doddridge	Dublic D	Northing:	
Distri		West Union		y used farm name:	US Route 50
		West Union 7.5' Headwaters Middle Island Creek	Generally	y used farm name.	Michael R. Britton, et al
Pursu to be horiz surfa- inform header gas/p	provided provided ontal well ce affected mation rel	by W. Va. Code § 22-6A-10(b); and (3) A proposed surface use a d by oil and gas operations to the lated to horizontal drilling may b ocated at 601 57th Street, SE, alt.aspx.	to a surface owner wand compensation agree extent the damages are obtained from the Scharleston, WV 253	those land will be ement containing a re compensable ur ecretary, at the W 304 (304-926-045)	s code section; (2) The information required used in conjunction with the drilling of a an offer of compensation for damages to the oder article six-b of this chapter. Additional V Department of Environmental Protection (b) or by visiting www.dep.wv.gov/oil-and-double-six-bulk-new-months/
			4 1 1		
	Operator:	Antero Resources Corporation	Addres	SS: 1615 Wynkoop St	reet
	hone:	Antero Resources Corporation (303) 357-7310	Facsin	Denver, CO 8020	

Oil and Gas Privacy Notice:

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API NO. 47- 017 OPERATOR WELL NO, Oxford 98 Unit 5H
Well Pad Name: Oxford 98 Pad

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through , including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows: State: West Virginia Easting: 517297m UTM NAD 83 County: Doddridge Northing: 4344889m District: West Union Public Road Access: US Route 50 Quadrangle: West Union 7.5' Generally used farm name: Michael R. Britton, et al Watershed: Headwalers Middle Island Creek I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. *Please check the box that applies FOR EXECUTION BY A NATURAL PERSON ☐ SURFACE OWNER Signature: Print Name: ☐ SURFACE OWNER (Road and/or Other Disturbance) ☐ SURFACE OWNER (Impoundments/Pits) FOR EXECUTION BY A CORPORATION, ETC. □ COAL OWNER OR LESSEE Company: ☐ COAL OPERATOR Its: □ WATER PURVEYOR Signature:

Oil and Gas Privacy Notice:

□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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.

Date:

WV Department of



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

January 19, 2022

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 Oxford 98 Pad, Doddridge County
Oxford 98 Unit 5H Well Site

Dear Mr. Martin,

D. Alan Reed, P.E.

State Highway Engineer

This well site will be accessed from a DOH permit #04-2014-0913 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off Doddridge County Route 11/4 SLS MP1.46.

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

Very Truly Yours,

RECEIVED Office of Oil and Gas

FEB 7 2022

WV Department of Environmental Protection

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane Blair

Antero Resources Corporation

CH, OM, D-4

File

Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

FRACTURING/STIMULATING INTERVAL

4701706921

	Additive	Chemical Abstract Service Number (CAS
1.	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
3.	Ammonium Persulfate	7727-54-0
4.	Anionic copolymer	Proprietary
5.	Anionic polymer	Proprietary
6.	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7.	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
9.	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, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, petroleum, heavy aliph	64742-96-7
	Soybean Oil, Me ester	67784-80-9
34.	Copolymer of Maleic and Acrylic Acid	52255-49-9
	DETA Phosphonate	15827-60-8
	Hexamythylene Trlamine Penta	34690-00-1
37.	Phosphino Carboxylic acid polymer	71050-62-9
	Hexamethylene diamine penta	23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9
	Hexamethylene diamine penta (methylene phosphonic ac	cid) 23605-74-5
	Diethylene Glycol	111-46-6
	Methenamine	100-97-0
	Polyethylene polyamine	68603-67-8
	Coco amine	61791-14-8
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7

HENNEYEVENIA PROPOSED WEST UNION TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

OXFD-98 WELL PAD SITE DESIGN AND CONSTRUCTION PLAN **EROSION AND SEDIMENT CONTROL PLANS**

LOCAL ANTERO OFFICE

WHERE (504) 842-4-50 COL (504) 627-7405

MARON KUNZLER ODNSTRUCTION WANAGER

CONSULTANTS

LOCATION MAP

	OXF	ORD 98 5H		
CATUM	NORTHING	EASTNO	LATITUDE	LONGITUDE
WY NORTH NADLES	215980.174	1600509749	39"1511.35"	-00"4758.33"
WYNORTH NAD 27	275945 024	1631950960	3011511.DE	-80°4T 66 95°
LITMES (METERS) ZONE 17	42+4006.636	017206-043		
LITHER (METERS) 20KG 17	4344671 033	517282 122		

WELL PAD CENTROID LOCATION					
DATUM	NORTHING	EASTING	BOLTITAL	LOWISHINGS	
WY NURTH NAD 53	276968 646	1600619771	39"1511.24"	-60"×T18.20"	
WICKCRTH NAD 27	275933 136	1531940 582	391510 05	-00"4750 AT	
WIMEZ (METERS) ZONE 17	4394855 407	317294 665		31 11111	
LATRACT CASE TERMS - POACE AR		B. 18800			

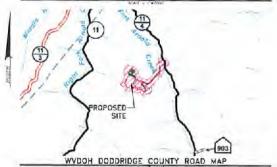
LOCATION COORDINATES (NAD83)

LOCATION COORDINATES (NAD27)

HODESS ENTRANCE (NACUY)
LAT 1975 VENT (NACUY)

APPROVED WVDEP OOG 3/16/2022





WESTWIRG

Dial 811 or 800,245,4848 YOU DIG!

CT MALE

LIST OF DRAWINGS

1.00 30	20VER 2007T
2 (0) 30	SOMETIME OF ORIGINATIONS
3 (35 36	SCHEDULE OF BUANTINES
4 00 36	EXISTING CONDITIONS IFLAN
5 00 36	MEYNAP PLAN
D CF 35	DRADING & EROSON CONTROL PLAN "A"
7 CF 36	SEADING A FROSON CONTROL PLAN "3"
8 OF 36	GRACING A FROSON CONTROL PLAN ""
9 07 26	DRADING & EROSON CONTROL PLAN "D"
*C (0F 36	DRUDHS ANALYSIS PLAN "A"
11 IDF 54	DRACING ANALYSIS PLAN "6"
12 OF 36	DRACING ANALYSIS PLAN "C"
1.5 CF 31	DRADING AND YES FLAN "B"
14 OF 36	ACCESS BOAD & PROFILE
15 or 31	ACCESS ROAD A PROFILE
46 OF 26	ACCESS MOAD B PROFILE
17 CF 36	STORWHATER FLAN AND PROFILE
18 CF 36	WOODS WOWN IN CHOSS SECTIONS
40 CT 38.	ACCESS MOAD A CROSS SECTIONS
20 OF 36	ACCESS MOVO A & MELL PAD CHOSS SECTIONS
11 of 36	ACCESS AGAD 3 & PAD DROSS SECTIONS
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27 or 30	NOTES AND DETAIL SHEET
28 OF 35	NOTES AND DETAIL SHEET
26 05 55	NOTES AND DETAIL SHEET
20 00 36	NOTES AND DETAIL SHEET
21 CF 36	HOTES AND DETAIL SHEET
32 or 34	- NOTES AND DETHIL SHEET
33 or 36	BEEL MATION FLAN "A"
34 OF 36	NECLANATION PLAN "U"
25 (3) 36	- RECLANATION FLAN "C"
76 OF 36	RECLAMATION PLAN TO



PAD

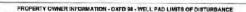
ENVIRONMENTAL NOTES

FLOODPLAIN NOTE

GENERAL DESCRIPTION

THE SITE IS LOCATED INSIDE FLOOD ZONE "A". THAT HAS NO FLOOD IT PLATTER FINA FLOOD WAY SENDERCOLOGIC WITH AN

STREAM AND WELFARD BELLEVIOUS REPORT REPTONDED ON CONTROL OF CONTROL OT CONTROL OF CONTR



WEST UNION DISTRICT - DODDRICGE COUNTY PARTIE IN TOTAL ACRES ACPEAGE 0.75 211

DIRECTIONS TO THE SITE

WELL LOCATION RESTRICTIONS

WELL PAD IS TO COMEY WITH WELL LOCATION MESTINGTONS OF A DEDS. 32-64-12 THE PAGS COMPLY WITH THE FOLLOWING DESTINGTIONS.

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GEOTECHNICAL NOTES

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> 01/12/2022 900 K 1 05 38 OHO NO 005452428

