

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

Tuesday, August 30, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re:

Permit approval for LITTLE UNIT 2H

47-095-02812-00-00

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.

Operator's Well Number:

LITTLE UNIT 2H

Farm Name:

SHIRLEY J WELLS & SUSIE

U.S. WELL NUMBER: Horizontal 6A New Drill

47-095-02812-00-00

Date Issued: 8/30/2022

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this parall. Permit conditions have the same effect as law. Enhance to adhere to the specified negative 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
- 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-Sa (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 easing. Under no circumstance should (20) feet of casing below the bottom of the void or install less than twenty
- 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.
- 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 supply well.
- 6. Pursuant to the requirements pertaining to the sampling of demestic water supply wells/springs the operator thall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any
- 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 annulus 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 wall 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 communing process, in the event coment does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

PERMIT CONDITIONS

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, examine of drilling, examined well work, and completion of the well. Such notice shall be provided by examine an email to DEFOCGNotify@vv.gov.

API NO 447-00 9. 5 0 2 8 1 2

OPERATOR WELL NO. Little Unit 2H
Well Pad Name: Wrigley Pad

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

1) Well Opera	tor: Antero	Resources	Corpora	4945	07062	095-Tyler	Meade	Bens Run 7.5'
				Open	rator ID	County	District	Quadrangle
2) Operator's '	Well Numbe	r: Little Unit	2H		Well Pa	nd Name: Wrig	ley Pad	
3) Farm Name	/Surface Ow	ner: Shirley We	lls/Susie Cunr	ningham	Public Ro	ad Access: Ro	ck Run Rd	
4) Elevation, c	urrent groun	d: 964'	El	evation	n, proposed	post-construct	ion: ~937'	20
5) Well Type	(a) Gas Other	X	Oil		Unc	lerground Stora	ge	
	(b)If Gas	Shallow	X		Deep			
6) Existing Page	d: Yes or No	Horizontal No	X					
	and the second second second second					and Expected Piated Pressure-		
8) Proposed To	otal Vertical	Depth: 660	0' TVD					
9) Formation a	t Total Verti	ical Depth:	Marcellus					
10) Proposed 7	Total Measur	red Depth:	11300'					
11) Proposed I	Horizontal L	eg Length:	1541.6'					
12) Approxima	ate Fresh Wa	iter Strata De	pths:	397'				
13) Method to	Determine F	resh Water D	Depths:	170950259	30000 Offset w	ell records. Depths hav	e been adjusted a	according to surface elevations.
14) Approxima	ate Saltwater	Depths: 14	36', 1847'					
15) Approxima	ate Coal Sea	m Depths: N	lone Antic	cipated	Í			
16) Approxima	ate Depth to	Possible Voi	d (coal mi	ne, kar	st, other):	None Anticipa	ated	
17) Does Prop directly overly					es	No	, <u>X</u>	
(a) If Yes, pro	ovide Mine	Info: Name:						
		Depth						
		Seam:						
		Owner	r;					

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Well Pad Name: Wrigley Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	X-60	78.67#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	555'	555'	CTS, 578 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3100'	3100'	CTS, 1262 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110HP	20#	11300'	11300'	CTS, 1930 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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"	0.375"	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	TE = J						
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	

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API NO. 47- 095

OPERATOR WELL NO. Little Unit 2H
Well Pad Name: Wrigley 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.

*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): 28.45 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 10.35 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.

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API Number 47 -

Operator's Well No. Little 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 B	ens Run 7.5
Do you anticipate using more than 5,000 bbls of water to complete the proposed well Will a pit be used? Yes No 🗸	ll work? Yes V No No
	Fluids will be stored in tanks: Cuttings will be tanked and hauled off site.)
	, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number *UIC Permit	
Reuse (at API Number Future permitted well locations when applica	
Off Site Disposal (Supply form WW-9 for disposal location Other (Explain	ion)(Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/ WV0109410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings	Wetzel County Landfill (Permit #SWF-1021)
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater,	oil based, etc. Stiff Foam, Production - Water Based Mud or Synthetic Based Mud
-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, etcDrill cuttings	ngs stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime	s, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98) -Wetzel County Landfill (Permit #SW), Northwestern Landfill (Permit #SWF-1025/WV0109410) (F-1021)
Permittee shall provide written notice to the Office of Oil and Gas of any load of dril West Virginia solid waste facility. The notice shall be provided within 24 hours of rewhere it was properly disposed.	ll cuttings or associated waste rejected at any
I certify that I understand and agree to the terms and conditions of the GER on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and compensations for submitting false information, including the possibility of fine or imprison. Company Official Signature Gretchen Kohler	Environmental Protection, I understand that the on of the general permit and/or other applicable familiar with the information submitted on this those individuals immediately responsible for amplete. I am aware that there are significant
the state of the s	AUG 1 5 2022
Company Official (Typed Name) Gretchen Kohler Company Official Title Director, Environmental and Regulatory Compliance	
Company Official Title Shoster, Edwissinia and Regulatery Companie	WV Department of Environmental Protection
Subscribed and sworn before me this 27 day of July	, 20 <u>22</u>
My commission expires 27 Apr. 2024	No ary Public DIANE BLAIR NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024



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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Proposed Revegetation Treatmen	at. Agree Disturbed	28.45	acres	Prevegetation pl		
Lime 2-4	Tons/acre or to corr			Prevegetation pr		
	or Wood Fiber (will be used where	20147				
			200			
Fertilizer amount 500			s/acre			
Mulch 2-3 Access Road "A" (4.61 acres) + Staging ar	rea (0.75 acres) + Well Pad	Tons/a (10.35 acres		il Material Stockpiles (12.74	4 acres) = 28.45 Total Affected Acres	
		Seed	Mixtures			
Tempe	orary			Perma	anent	
Seed Type	lbs/acre			Seed Type	lbs/acre	
Annual Ryegrass	40		Crow	nvetch	10-15	
Field Bromegrass	40		Tall F	escue	30	
See attached Table IV-3 for additional s	see type, (Wrigley Pad Des	ign)	See attached Table IV-4 for additional seed type (Wrigley Pad Design)			
*or type of grass seed requested	by surface owner		*or type of grass seed requested by surface owner			
Maps(s) of road, location, pit and provided). If water from the pit water	will be land applied, is	nd application	ation (unless onensions (L x	engineered plans inclu W x D) of the pit, and	ding this info have been d dimensions (L x W), and area in	
Maps(s) of road, location, pit and provided). If water from the pit water acreage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, in trea.	nclude dir	ation (unless onensions (L x	engineered plans inclu W x D) of the pit, and	ding this info have been d dimensions (L x W), and area in	
Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, in trea.	nclude dir	ation (unless onensions (L x	engineered plans inclu W x D) of the pit, and	ding this info have been d dimensions (L x W), and area in	
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Maps(s) of road, location, pit and provided). If water from the pit watereage, of the land application a Photocopied section of involved Plan Approved by:	will be land applied, in trea.	nclude dir	ation (unless onensions (L x	engineered plans inclu	d dimensions (L x W), and area in	
Maps(s) of road, location, pit and provided). If water from the pit wacreage, of the land application a Photocopied section of involved	will be land applied, in trea.	nclude dir	ation (unless onensions (L x	engineered plans inclu	ding this info have been d dimensions (L x W), and area in RECEIVED Office of Oil and Ga	
Attach: Maps(s) of road, location, pit and provided). If water from the pit wacreage, of the land application a Photocopied section of involved Plan Approved by: Comments:	will be land applied, in trea. 7.5' topographic sheet May	nclude dir	nensions (L x	engineered plans inclu W x D) of the pit, and	d dimensions (L x W), and area in	

) Yes

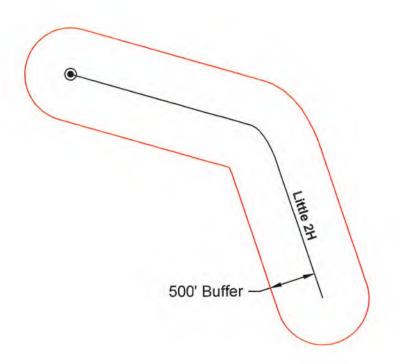
Field Reviewed?

LEGEND

- Proposed gas well
- * Existing Well, as noted
- Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone



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0' 2000' 4000' Scale: 1 inch = 2000 ft@9/02/2022

	ort Office 4) 848-5035) 848-5037	SURVEY,VC			Thompson Drive eport, WV 26330
PARTY CHIEF:	C. Lynch	1:10	4	DRAWN BY:	J. Smith
RESEARCH:	J. Miller	10	NE AP	PREPARED:	July 15, 2022
SURVEYED:	Dec. 2016		Alleghens Resid	PROJECT NO:	125-54-U-20
FIELD CREW:	C.L., K.M.		Sheet 1 of 1	DRAWING NO:	Little 2H Short AOR



911 Address 1199 Rock Run Rd Friendly, WV 26146

Well Site Safety Plan Antero Resources

Well Name: Wrigley Unit 5V, Little Unit 1H-2H, Martindill Unit

1H-2H, Trunk Unit 1H-2H

Pad Location: Wrigley Pad

Tyler County/Meade District

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GPS Coordinates:

Entrance - Lat 39.423516"/Long -81.006496" (NAD83)

Pad Center - Lat 39.421315"/Long -81.007502" (NAD83)

Driving Directions:

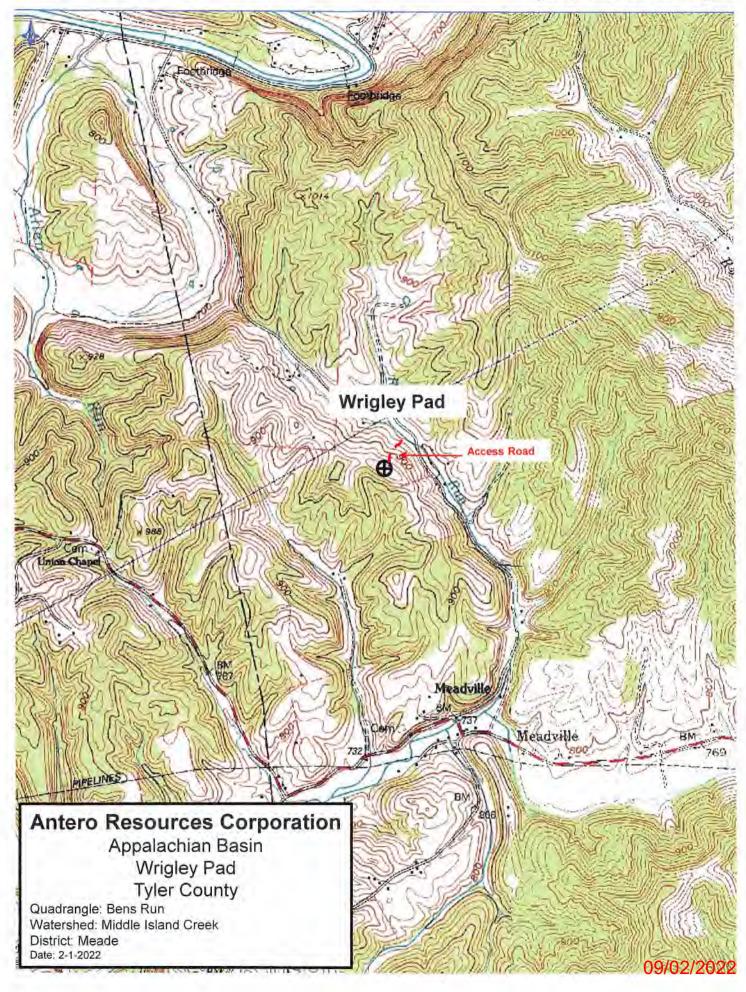
From the town of Wick: Head north on Friendly Rush Fork/Hog Run Rd for 59 ft, Turn left onto Wick Rd for 1.7 miles, Turn right to stay on Wick Rd for 351 ft, Turn right onto Rock Run Rd for 1.1 miles, Access road will be on your left.

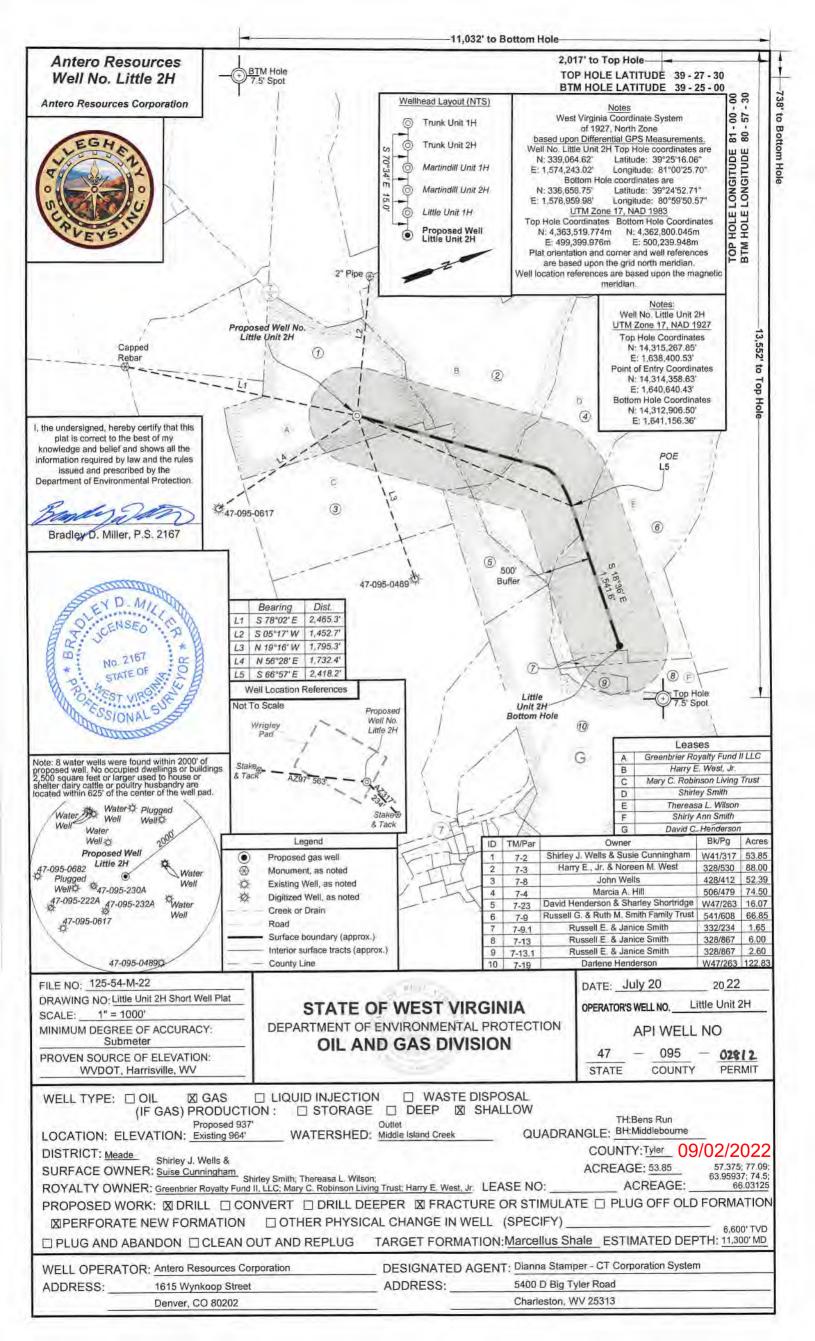
Alternate Route:

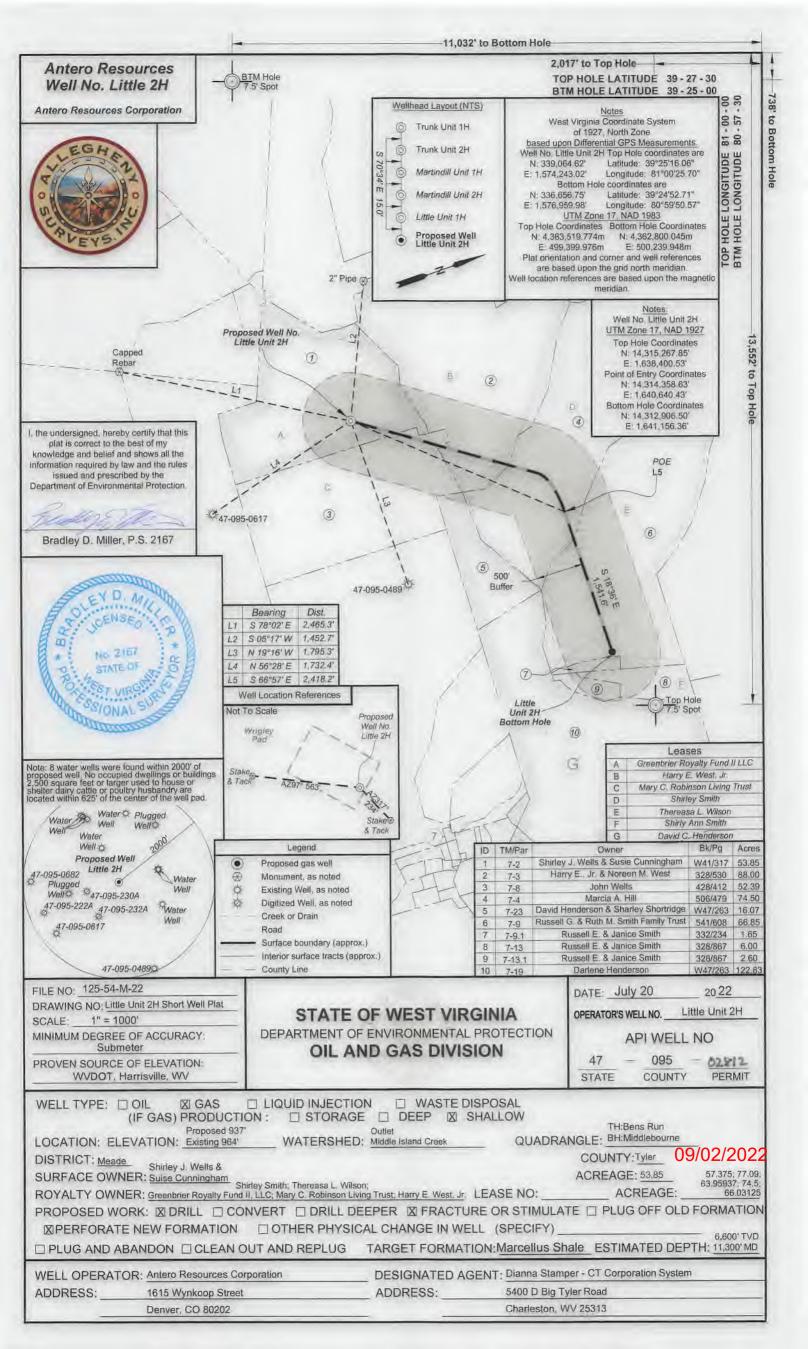
From the town of Long Reach: Head southwest on WV-2 S for 1.9 miles, Turn left onto Arvilla Rd for 4.0 miles, Turn right to stay on Arvilla Rd for 1.1 miles, Turn left onto Beech Run for 1.7 miles, Slight right onto Allen Run for 0.5 miles, Continue onto Falls Mills Rd/Shiloh-Slicker for 0.1 miles, Turn right onto Rock Run Rd for 1.7 miles, Access road will be on your right.

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

5M 6/9/02/2022







Operator's Well Number

Little 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
•	Greenbrier Royalty Fund II, LLC Lease		410	0.00/000
Gre	eenbrier Royalty Fund II, LLC	Antero Resources Corporation	1/8+	0108/0631
	Mary C. Robinson Living Trust Lease			
Ma	ary C. Robinson Living Trust	Antero Resources Corporation	1/8+	0590/0141
/ <u>B:</u>	Harry E. West, Jr. Lease			
Ha	rry Edward West, Jr.	Antero Resources Corporation	1/8+	0046/0125
∕ <u>D:</u>	Shirley Smith Lease			
Shi	rley Smith, widow	Chesapeake Appalachia, LLC	1/8	0399/0082
Che	esapeake Appalachia, LLC	SWN Production Company	Assignment	0465/0463
SW	/N Production Company	Antero Exchange Properties LLC	Assignment	0544/0242
An	tero Exchange Properties LLC	Antero Resources Corporation	Merger	0552/0315

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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.	Little 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)

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

Number / E: Theresa L. Wilson Lease	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Theresa L. Wilson	Antero Resources Corporation	1/8+	0580/0413

*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 CEIVED Office of Oil and Gas

Well Operator:	Antero Resources Corporation	JUL 2 8 2022
By:	Tim Rady	•
Its:	Senior Vice President - 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

July 26, 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: Little Unit 1H - 2H

Quadrangle: Bens Run 7.5'

Tyler County/Meade District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following applications for a new well work permits for the Little Unit 1H – 2H horizontal shallow wells. 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 Little Unit 1H – 2H horizontal laterals will drill through including any and all roads crossed under as identified on the attached survey plats.

Sincerely,

Tyler Adams Landman

Tyler Adams

RECEIVED Office of Oil and Gas

JUL 28 2022

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION 47 0 9 5 0 2 8 1 2

Date of Notic	ce Certification: 07/26/2022			API No. 4	7- 095 -		
Ditte Of Library				Operator's	Well No. Little	Unit 2H	
			- d	Well Pad	Name: Wrigley	Pad 🔨	
Notice has	been given:						
Pursuant to th	ne provisions in West Virginia Cod	e § 22-6A,	the Operator has prov	ided the red	quired parties v	vith the Notice Forms listed	
	tract of land as follows:						
State:	West Virginia			Easting:	499399.98m		
County:	Tyler /		UTMINAD 65	Northing:	4363519.77m		
District:	Meade *	Public Road Acce	ess:	Rock Run Rd			
Quadrangle:	Bens Run	Generally used far	rm name:	Wells -			
Watershed:	Outlet Middle Island Creek						
prescribed by it has provid information r of giving the requirements Virginia Cod	West Virginia Code § 22-6A-7(by the secretary, shall be verified and ed the owners of the surface descrequired by subsections (b) and (c), a surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applicant	I shall contribed in si section six survey pu of this ar Il tender pr	tain the following infoundivisions (1), (2) are steen of this article; (ii) resuant to subsection (article were waived in	rmation: (1 and (4), sub that the rea), section writing by	 A certification (b), section (b), sequirement was ten of this artitle surface over the surface or the surface or	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West	
that the Ope	West Virginia Code § 22-6A, the erator has properly served the requect ALL THAT APPLY			is Notice (Certification	OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY		OTICE NOT REQUIR MIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SUI	RVEY or [■ NO PLAT SURVE	EY WAS C	ONDUCTED	☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL C	NOTIO	OTICE NOT REQUIR CE OF ENTRY FOR F CONDUCTED or			RECEIVED/ NOT REQUIRED	
			VRITTEN WAIVER E (PLEASE ATTACH)	BY SURFA	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATIO	N		P	ECEIVED of Oil and Gas	☐ RECEIVED	
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3. PU	BLIC NOTICE			11 11	2 8 2022	LI KECEIVED	
■ 6 NO	TICE OF APPLICATION					☐ RECEIVED	
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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.

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 By: Diana Hoff Dunna Its:

Senior VP of Operations

303-357-7310 Telephone:

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 27 day of

Notary Public

My Commission Expires

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

JUL 28 2022

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OPERATOR WELL NO. Little Unit 2H
Well Pad Name: Wrigley Pad

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 03/24/2022 Date Permit Application Filed: 07/27/2022 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) METHOD OF DELIVERY THAT REOURES A REGISTERED **PERSONAL** SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Name: Shirley Wells Address: 1509 Maple Avenue Address: Wellsville, OH 43968-1253 COAL OPERATOR Name: Susie Cunningham Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: 1509 Maple Avenue RECEIVED Wellsville, OH 43968-1253 Address: Office of Oil and Gas ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: ☑ SURFACE OWNER OF WATER WELL JUL 28 2022 Address: AND/OR WATER PURVEYOR(s) Name: PLEASE SEE ATTACHMENT WV Department of **Environmental Protection** Name: Address: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

OPERATOR WELL NO. Little Unit 2H

Well Pad Name: Wrigley 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 G_{abc} G_{as} 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 sedimental protection of the application; (2) the erosion and sedimental protection of the application; (2) the erosion and sedimental protection of the application; (3) the erosion and sedimental protection of the application; (4) the erosion and sedimental protection of the application; (5) the erosion and sedimental protection of the application; (6) the erosion and sedimental protection of the application; (7) the erosion and sedimental protection of the application; (8) the erosion and sedimental protection of the application; (9) the erosion and sedimental protection of the application; (1) the erosion and sedimental protection of the application; (1) the erosion and sedimental protection of the application; (1) the erosion and sedimental protection of the application of the applica 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/oiland-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

OPERATOR WELL NO. Little Unit 2H
Well Pad Name: Wrigley 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:

RECEIVED
Office of Oil and Gas

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

JUL 28 2022

WV Department of Environmental Protection

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.

4709502812

OPERATOR WELL NO. Little Unit 2H

Well Pad Name: Wrigley 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.

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JUL 2 8 2022

OPERATOR WELL NO. Little Unit 2H Well Pad Name: Wrigley 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 27 day of M

Notary Public

My Commission Expires

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JUL 2 8 2022

Office of Oil and Gas

WW-6A Notice of Application Attachment (WRIGLEY PAD- MULTIPLE WELLS)

WATER SOURCE OWNERS: Within 2000'

TM 4 PCL 20.3

1 Water Well: 1585.3" (W1)

Owner: Cecil E. & Linda M. Jordan

Address: 535 Washington St.

Newell, WV 26050-1127

TM 4 PCL 20.1

3 Water Wells:1545.2" (W2) 1461.6' (W3) & 1430.3' (W5)

Owner: Richard W. Barnhart, Jr. Address: 1431 Rock Run Rd.

Friendly, WV 26146-7505

TM 7 PCL 2

1 Water Well: 792.4' (W4)

Owner: Susie Cunningham

Address: 1509 Maple Ave.

Wellsville, OH 43968-1258

TM 7 PCL 3

2 Water Wells: 853.5' (W6) & 870.0' (W7)

Owner: Harry Edward West Address: 1059 Rock Run Rd.

Friendly, WV 26146-7506

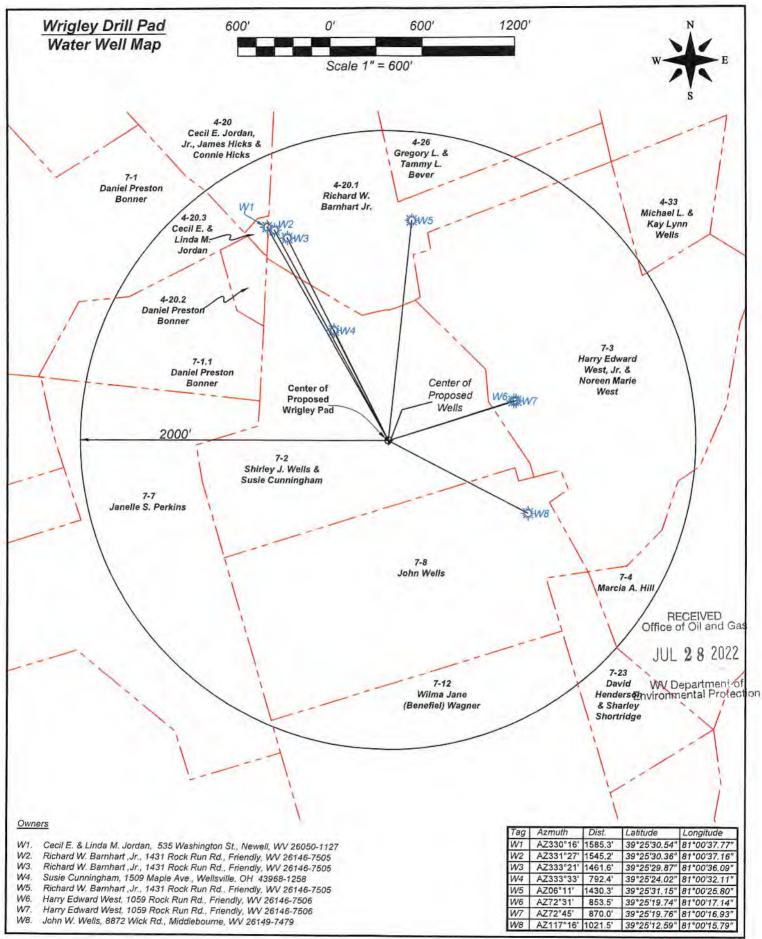
TM 7 PCL 8

1 Water Well: 1021.5' (W8)
Owner: John W. Wells
Address: 8872 Wick Rd.

Middlebourne, WV 26149-7479

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Office of Oil and Gas

JUL 28 2022



WW-6A4 (1/12)

Operator Well No. Little Unit 2H Wrigley Pad

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 No	otice: 02/03/20	122		Date Permit	Application 1	led: 07/27/2022	
Delivery n	nethod purs	uant	o West Virgin	ia Code § 22-6	5A-16(b)		
☐ HAN	D	10	CERTIFIED N	AAIL			
	VERY			CEIPT REQUE	ESTED		
eceipt requirilling a hof this subsection and if avail	uested or ha norizontal w section as of may be wai lable, facsim	nd del ell: Pa the da ved in ille nu	very, give the rovided, That note the notice we writing by the mber and electrons.	surface owner of otice given pur as provided to surface owner.	notice of its intersuant to subsecthe surface own The notice, if ress of the operat	nt to enter upon to ion (a), section to er: Provided, hor equired, shall inc	a, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirement. wever, That the notice requirements of this clude the name, address, telephone number or's authorized representative.
THEATANA	Shirley Wells				Name		nm
Addmonas 1	1509 Maple Ave				Addre	SS: 1509 Maple Ava	
Notice is leading to the surface	owner's lan	en: nia Co d for t	ode § 22-6A-16			tract of land as f	well operator has an intent to enter upor ollows:
Notice is I Pursuant to the surface State: County:	hereby giv	en: nia Co d for t	ode § 22-6A-16			the undersigned tract of land as for Easting: Northing:	well operator has an intent to enter upor
Notice is learning to the surface State: County; District:	hereby giv o West Virgi owner's lan West Virgi Tyler Meade	en: nia Co d for t	ode § 22-6A-16		uth NAD Public Road	the undersigned tract of land as for Easting: Northing:	well operator has an intent to enter upor ollows: 499399.98m 4363519.77m
Notice is I Pursuant to the surface State: County:	hereby give o West Virgi owner's lan West Virgi Tyler Meade e: Bens Run	en: nia Co d for t nia	ode § 22-6A-16 he purpose of a		uth NAD Public Road	the undersigned tract of land as f Easting: Northing: Access:	well operator has an intent to enter upor follows: 499399.98m 4363519.77m Rock Run Rd
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Votice is learning to the surface State: County: District: Quadrangle Vatershed: Vatersh	hereby give of West Virging Tyler Meade et Bens Run Outlet Mid dee Shall In the West Virging Tyler Meade et Bens Run Outlet Mid dee Shall In the West Virging Tyler Meade et Bens Run Outlet Mid dee Shall In the West Virging Tyler and the Sol 1 57th Street hereby give ator: Antero 1615 W Denver 303-35;	en: nia Cod for the clude sinia (clude sinia	de § 22-6A-16 he purpose of of d Creek Code § 22-6A- onic mail addr may be obtain Charleston, W ses Appelachien Cost.	16(b), this not ess of the opered from the Se V 25304 (304-	ontal well on the UTM NAD Public Road Generally use ice shall include rator and the operetary, at the V-926-0450) or be Authorize Address:	the undersigned tract of land as for Easting: Northing: Access: sed farm name: the name, adderator's authorized visiting www.d	well operator has an intent to enter upor follows: 499399.98m 4363519.77m Rock Run Rd Wells ress, telephone number, and if available red representative. Additional information of Environmental Protection headquarters op. wv. gov/oil-and-gas/pages/default aspx. Mallory Stanton 1615 Wynkoop St. Denver, CO 80202

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 Actor requirements and Information Actor requirements and Information I 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 (1/12)

Operator Well No. Little Unit 2H

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

AND		
ELIVERY		
owner whose land ection shall includ is article to a surfa use and compensa of the extent the date surface owner at	will be used for e: (1) A copy ce owner whose ation agreement mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information is land will be used in conjunction with the treatment containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Name: _		П
Address		
	Wellsville, OH 43	968-1253
	The state of the s	
	well on the tra Easting: Northing:	well operator has developed a planned ct of land as follows: 499399.98m 4363519.77m Rock Run Rd Wells
Public Road A Generally used shall include: (1). ace owner whose ensation agreement damages are cold from the Secreta	Well on the tra Easting: Northing: Access: d farm name: A copy of this land will be at tontaining armpensable underly, at the WV	ct of land as follows: 499399.98m 4363519.77m Rock Run Rd Wells code section; (2) The information required used in conjunction with the drilling of a refer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Public Road A Generally used shall include: (1). ace owner whose ensation agreement damages are cold from the Secreta	Well on the tra Easting: Northing: Access: d farm name: A copy of this land will be at tontaining armpensable underly, at the WV	ct of land as follows: 499399.98m 4363519.77m Rock Run Rd Wells code section; (2) The information required used in conjunction with the drilling of a roffer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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.

API NO. 47- 095 - 09 5 0 2 8 1 2

OPERATOR WELL NO. Little Unit 2H

Well Pad Name: Wrigley 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

State:	the well plat, all for proposed well work on the West Virginia	LITM NAD 83 Easting:	499399.98m
County:	Tyler	Northing:	
District:	Meade Bens Run	Public Road Access:	Rock Run Rd
Quadrangle: Watershed:	Outlet Middle Island Creek	Generally used farm name:	Wells
□ SURFA	CE OWNER	Signatura	
	k the box that applies CE OWNER	11 7 7 7 7 7	TION BY A NATURAL PERSON
□ SURFA	CE OWNER (Road and/or Other Disturbanc	e) Print Name:	
□ SURFA	CE OWNER (Impoundments/Pits)	1 1 1 3 5 7 7 7 7	TION BY A CORPORATION, ETC.
COAL C	OWNER OR LESSEE	Company:	204 St. 312-6-29 (111-6-21-1) 4 - 11-1
	PERATOR	By:	RECEIVED Office of Oil and Gas
□ COAL C	, division	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	PURVEYOR		
□ WATER		Signature:	JUL 2 8 2022 WV Department of

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

D. Alan Reed, P.E. State Highway Engineer 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

July 11, 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 Wrigley Pad, Tyler County
Little Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0028 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 7/3 SLS MP 1.19.

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,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane Blair

Antero Resources

CH, OM, D-6

File

RECEIVED
Office of Oil and Gas

JUL 28 2022

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

	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.		64742-48-9	
7.		(Proprietary)	
8.	Demulsifier Base	(Proprietary)	
9.	Ethoxylated alcohol blend	Mixture	
10). Ethoxylated Nonylphenol	68412-54-4	
11	Ethoxylated oleylamine	26635-93-8	
12	2. Ethylene Glycol	107-21-1	
13	3. Glycol Ethers	111-76-2	1
14	. Guar gum	9000-30-0	
	i. Hydrogen Chloride	7647-01-0	
16	i. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
17	'. Isopropyl alcohol	67-63-0	
18	3. Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2	
19	. Microparticle	Proprietary	
20	Petroleum Distillates (BTEX Below Detect)	64742-47-8	
21	Polyacrylamide	57-55-6	
22	. 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	ŀ
	. Sodium Hydroxide	1310-73-2	
	. Sugar	57-50-1	
	. Surfactant	68439-51-0	1
	Suspending agent (solid)	14808-60-7	1
	. 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	1
	. Copolymer of Maleic and Acrylic Acid	52255-49-9	
	. DETA Phosphonate		
	. Hexamythylene Triamine Penta	15827-60-8 24690-00-1	
	. Phosphino Carboxylic acid polymer	34690-00-1 71050-63-0	
	. Hexamethylene diamine penta	71050-62-9 23605-74-5	
	2-Propenoic acid, polymer with 2 propenamide		
	 2-Propendic acid, polymer with 2 propenamide Hexamethylene diamine penta (methylene phosphonic ac 	9003-06-9	
	. Diethylene Glycol	RECEI	VED.
	. Methenamine		amo C
		100-97-0 68603-67-8 JUL 2 8	1202
	. Polyethylene polyamine	3333 5. 5	, - 0 -
	. Coco amine	61791-14-8 WV Depar	treent
43	. 2-Propyn-1-olcompound with methyloxirane	38172-91-7 Environmenta	I Prote

WRIGLEY WELL PAD & WATER CONTAINMENT PAD

SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

MEADE DISTRICT, TYLER COUNTY, WEST VIRGINIA SUGAR CREEK WATERSHED

USGS 7.5 BENS RUN & MIDDLEBOURNE QUAD MAPS



LOCATION COORDINATES:
ACCESS ROAD ENTRANCE.
LAITUUDE: 39.423516 LONGITUDE -61.008495 (NAD 83)
LAITUUDE: 39.423519 LONGITUDE -61.008495 (NAD 83)
LAITUUDE: 39.423499 LONGITUDE - 09.008605 (NAD 27)
A 38.6277.5.3 & 4.9944.6.5 (UTM 20NE 17 INETED) CENTER OF TANK
LATITUDE: 39.421600 LONGTRIDE: -81.008242 (NAB 83)
LATITUDE: 39.421623 LONGTRUDE: -81.008242 (NAB 87)
N 4383363.67 E 409281.97 (UTM ZONE 17 METERS)

CENTROID OF PAU LATITUDE: 39.421316 LONGITUDE: -81.007502 (NAD 83) LATITUDE: 39.42128 LONGITUDE: -81.007676 (NAD 27) N 438353211 E 488354.26 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:
THE ACCESS ROAD, STACING AREA, WATER CONTRINNEST PAD AND WELL PAD ARE BEING
CONSTRUCTED TO AD IN THIS DEVELOPMENT OF REDVIDUAL MARCELUS SHALE GAS WELLS.

FLOODPLAIN NOTES:
THE PROPOSED SITE IS LOCATED IN FLOOD ZONE X PER FEMA MAP NUMBERS #54095CD125C.

MISS LITTLETY STATEMENT.

ATTERNESS PROMOTES CONFORMENT WILL HOTHEY MISS LITTLETY OF WEST VERGINA FOR THE LOCATING, OF CONTRACTOR PROFIT TO FESSER, IN ADDITION, MISS UTILITY WILL BE CONTRACTED FROM TO THIS PROADET DESIGN. IN ADDITION, MISS UTILITY WILL BE CONTRACTED FOR THE PROBLET.

CONTINUES PERMITS
ANTER DESCRIPTE PERMIT (FORM MM 109) FROM THE MEST VIRGINIA DEPARTMENT OF TRANSPORTATION OF HIGHWAYS, PROF. TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:
SITEMA AND WITLAND DELIMENTORS WERE PERFORMED IN SEPTEMBER, SOIL BY ALLSTAR ECCLORY TO
STREAM AND WITLAND DELIMENTORS WERE PERFORMED IN SEPTEMBER, SOIL BY ALLSTAR ECCLORY TO
FITTE U.S. ARMY CORPS OF DENORMERS (URACL) AND/OR THE WEST VIRINIA DEPARTMENT OF
PRIVATE U.S. ARMY CORPS OF DENORMERS (URACL) AND/OR THE WEST VIRINIA DEPARTMENT OF
WAS DESCRIPTED BY ALLSTAR EXCOLORY AND SUMMARIZES THE RESULTS OF THE FIELD DELIMENTON HE
MAP DOES NOT. IN AIT WAY, REPRESENT A JURISHICTIONAL DETREMINATION OF THE DESCRIPTION AND THE STAND WITHOUT AND THE RESULTS OF THE FIELD DELIMENTON, THE
WAS DESCRIPTED AND THE STAND OF THE STAND OF THE ADMINISTRATION OF THE DELIMENTON OF THE DELIMENTON OF THE DELIMENTON OF THE PROPERTY DESCRIPTION OF THE PROPERTY DESCRIPTION.

GEOTECHNICAL NOTES:
A SUBSUPACE INVESTIGATION OF THE PROPOSED SITE HAS PERFORMED BY PENNSYLVANIA SOIL &
ROCK INC, ON APRIL 10-19, COIL. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC.
DATED JUNE 6. 2018, REVISED SEPTEMBER 22, 2012. REFLICETS THE RESULTS OF THE SUBSUPACE
PRESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THE SEPTEMBER 10.
IN THE PREPARATION OF THESE PLANS. PLANSE REPORT NEED UNSUFFRACE INVESTIGATION REPORT
PENNSTLANIAN SOIL & ROCK, INC. TOA ROUTHFORM, INVIDIATION, AS MELEUR

PROJECT CONTACTS:

OPERATOR:
ANTERO RESOURCES CORPORATION
DOS WHITE OARS BLVD.
HRIDGEPORT, W 26330
PHONE (204) 842-4100
FAX: (304) 842-4102

ELI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER OFFICE: (304) 842-4088 CELL: (304) 476-9770

DIANA HOFF - SVP OPERATIONS OFFICE: (303) 357 8904

AARON KUNZLER - CONSTRUCTION MANAGER CMLL (304) 842-4191

ROBERT EDDY - UTILITY COORDINATOR CELL: (304) 719-5198

JIM WILSON - LAND AGENT OFFICE: (204) 542-4419 CELL: (304) 571-2708

ENGINEER/SURVEYOR NATITUS ENGINEERING, INC. CYRUS S. KUMP, FE - PROJECT MANAGER/ENGINEER OFFICE: (886) 662-4165 CELL: (540) 685-6747

ENVIRONMENTAL: ALISTAR ECOLOGY, 11.C RYAN L. #ARD — ENVIRONMENTAL SCIENTIST (906) 210-2660 CELL: (304) 692-7477

ARRON RUYLLER - CONSTRUCTION MANAGER CELL: (094) 497-4197

ROBERT WIRES - DISIGN MANAGER (094) 527-7405

FOFFICE: (2014) 842-4100

CELL: (204) 527-7405

FOFFICE: (2014) 727-8-000 CELL: (147) 549-50822

RESTRICTIONS NOTES:

1. THERE ARE NO LAKES, POIDS, OR RESERVOIRS WITHIN 100 FREE OF THE WELL PAD AND LOD. THERE ARE PERSONAL STREAMS A WITHAND IMPACTS THAT WILL NEED TO BE PERMITTED BY THE APPROPRIATE AGENCIES.

- 2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL
- 3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.

- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

PROPOSED WELL PAD/ WATER STAGING CONTAINMENT PAD (1) WVDOH COUNTY ROAD MAP



(NOT TO SCALE)

REPRODUCTION NOTE

SIE PLANS WERE CHEATEN TO BE PLANTEN ON ZEICH (ANS) DI APER HALF SCALE DHAWNIGS ARE UN LUILLY (ANS) B) PAPER

THESE PLANS WERE CREATED FOR COLOR FLOTTING AND ANY OPHITHONS IN GRAY SCALE OR COLOR MAY RESELLT IN A LOSS OF MATOR AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES:

DESIGN CERTIFICATION:
THE DRAWNGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS
ATTACHED HERSTO HAVE BEEN PREPARED IN ACCORDANCE WITH
THE WEST VIRGINIA CORE OF STATE RULES. INVISION OF
ENVIRONMENTAL PROTECTION, OFFICE OF OLL AND GAS CHS 35-8.

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

SHEET INDEX:

- COVER SHEET CONSTRUCTION AND EAS CONTROLS NOTES

- COVER SHEET

 CONSTRUCTION AND EAS CUNTROLS NOTES

 CONSTRUCTION

 MATERIAL QUANTITIES

 EXISTING DERINANCE & EAS COMPUTATIONS

 EXISTING CONDITIONS

 EXISTING CONDITIONS

 EXISTING CONDITIONS

 EXISTING CONDITIONS

 EXISTING CONDITIONS

 EXISTING

 ACCESS ROAD, STAGING AREA & VOLLINGS

 ACCESS ROAD, STAGING AREA & VOLLINGS

 ACCESS ROAD SECTIONS

 EXIL PAD & STOCKPILE PLAN

 WELL PAD & STOCKPILE PLAN

 WELL PAD & STOCKPILE SECTIONS

 EXISTING

 EXISTING

 STREAM LICONSING DESCRIPTIONS

 EXISTING

 EXISTING

 STREAM LICONSING DESCRIPTIONS

 EXISTING

 ACCESS ROAD, STAGING AREA & WELL PAD RECL.

 ACCESS ROAD, STAGING AREA & WELL PAD RECL.

- ACCESS ROAD, STAGING AREA & WELL PAD RECLAMATION PLAN-ACCESS ROAD, WELL PAD & STOCKPILE RECLAMATION PLAN-IN-GESON GEOTECHNICAL DETAILS

WRIGLEY LIMITS OF DISTURBANCE A	CENT STATE OF THE
Total Site	
Access Road "A" (1576")	4.61
Staging Area	0.75
Well Pad	10.35
Excess/Topsoil Material Stockpiles	12.74
Total Affected Area	28,45
Total Wooded Acres Disturbed	16.80
Impacts to Shirley J. Wellis & Susie Cunningham Raiph D. Wells Diss G. Wells TM 7	
Access Road "A" (1576")	461
Staging Area	0.75
Well Pad	10.35
Firesy/Torsoi Majerial Stockoles	12.74

Total Affected Area

West Harry	NAC 27	MAD 2/ Lat & Long	(METERS) ZONE 17	NAD ET LIS & Long			
	Permitted Location						
Trunk	N 309059.52	LAT 39-25-15 2820	N 4362627 00	LA7 29-25-16 5002			
UNIT 1H	E 1574172 28	LONG -81-05-26 6074	E 466379.30	CMG-81-00-28 0016			
Trunk	N 230084.54	LAT 39-25-16 2452	N 4353625.55	LAT 30-25-16:5223			
UNIT 2H	E 1574198 43	LONG -81-00-26-4250	E.400382.63	LONG -61-00-25 8205			
Martingill	N 339079.56	LAT 39-25-15 1983	N 4363634.11	LAT 39-25-16,4754			
UNIT 1H	E 1674200.87	LONG -81-03-26-2447	E 499300,97	LONG -81-00-25 8391			
Martindill	N-339074.58	LAT 39-25-16 1514	N 4303622 66	LAT 39-25-10-4265			
UNIT 2H	E 1574214 72	LONG -81-00-25 0593	E 409301 30	LCNG-81-00-25 4576			
Little	N 339069.60	LAT 39-25-15 1645	N 4363521.22	LAT 39-25-16.3817			
LINIT 1H	E 1574228 87	LONG -81-09-25 8829	E 497395.94	LONG -81-00-75 2784			
Little	N 339064.82	LAT 39-26-15.0577	N 4363610.77	LAT 39-25 18,3348			
UNIT 2H	E 1574243.02	LONG -81-00-25 7006	E 409309 St	LONG -61-00-25-0961			
Oxtow	N 339145,72	LAT 39-25-16 8041	N C202512 TR	AT 39-25-17-0512			
UNIT 1H	E 1573913.99	LONG 41-03-29 9485	E 490298.41	LCNG-81406-29 3430			
Dabow	N 339141.07	LAT 36-25-16 7805	N 4363541.45	LAT 39-25-17.0375			
LINUT 2H	E 1573925.25	LONG-81-00-29-7008	E 497302.78	LONG 81-00-29 1903			
Rote	N 209135-41	LAT 39-75-16 7188	N 4363540 FD	EAT 30-25-16 0239			
DNIT 19	E 1573939.51	LONG 41-05-29 5831	E 490307.15	LONG-81400-28 9777			
Rate	N 339131 75	LAT 30-25-16-5732	N 4363638.75	LAT 39-25-16.9603			
UNIT 2H	E 1573953.77	LONG-81-05-29 4005	E 499311 51	LONG-61-00-28 T950			
Wrighty	N 339160-15	LAT 39-25-17 0700	N 4383550.93	LAT 39-25-17,3500			
LINIT 5V	E 1574106 83	LONG -61-30-27-4600	E 499357 98	LDNG-81-00-25-8500			
Proposed Veil	Ped Elevanion	937.0					

WRIGLEY WETLAND IMPACT (SQUARE FEET)						
Wetland and Impact Cause	FIL(SF)	Total Impact (SF)	Total impact			
GA! Welland 12 (Access Road)	70	70	0.002			
ASE Wetland 1 (Access Road)	1,593	1,593	0.04			

HIMALITE		TREAM IMPACT (Temp. Impacts		
Stream and Impact Cause		Inlets/Outlets Structures (LF)	COMMUNITER CAN	(LF)	
GAI Stream 1 (Access Road)	-65	0	34	99	

	Permanent impacts		Temp. Impacts	
Streem and Impact Cause	Culvent /FE(LF)	Inlets/Outlets Structures (LF)	Controls (LF)	(LF)
ASE Stream 10 (Access Road)	37	18	26	81
GAI Stream 35 ASE Stream 9 (Access Road)	89	45	22	156





WRIGLEY SHEET

PAD

COVER PAD &



SHEET 1 OF 27

