

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

Friday, January 21, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Permit approval for GREENWOOD UNIT 1H Re:

47-095-02777-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Operator's Well Number: GREENWOOD UNIT 1H

Farm Name: ROBERT D & VIRGINIA A NA

U.S. WELL NUMBER: 47-095-02777-00-00

Horizontal 6A New Drill Date Issued: 1/21/2022

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

- 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.

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, constant of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-095	0%	2777	
OPERATOR WELL	NO.	Greenwood Unit 1H	/
Well Pad Name:	Nalley	Pad	,

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

A-4-7- D	4507062	095 - Tyler	Lincoln	Paden City 7.5'
Well Operator: Antero Resources Corporat 49	perator ID	County	District	Quadrangle
2) Operator's Well Number: Greenwood Unit 1H				***************************************
3) Farm Name/Surface Owner: Robert D. Nalley et u	Y Public Roa	d Access: WV-	18 Tyler H	lighway
4) Elevation, current ground: 972' / Elevation	tion, proposed	post-construction	on:	
5) Well Type (a) Gas X Oil	Unde	erground Storag	ge	
Other				
(b)If Gas Shallow X	Deep			
Horizontal X				
6) Existing Pad: Yes or No Yes	1 001 1 1		//	
 Proposed Target Formation(s), Depth(s), Anticipate Marcellus Shale: 6600' TVD, Anticipated Thickness- 				
8) Proposed Total Vertical Depth: 6600' TVD .				
9) Formation at Total Vertical Depth: Marcellus '				
10) Proposed Total Measured Depth: 14,700'				
11) Proposed Horizontal Leg Length: 6917'				
12) Approximate Fresh Water Strata Depths: 15	58' -			
13) Method to Determine Fresh Water Depths: 47-0	095-00912-00	00-		
14) Approximate Saltwater Depths: 1678' /				
15) Approximate Coal Seam Depths: 483'				
16) Approximate Depth to Possible Void (coal mine,	karst, other):	None Anticipa	ted	
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?	Yes	No	x	
(a) If Yes, provide Mine Info: Name:				RECEIVED Office of Oil and Gas
Depth:				DEC 2 0 2021
Seam:				WV Department of
Owner:				Environmental Protection

API NO. 47-095 - 0	2717
OPERATOR WELL NO.	Greenwood Unit 1H
Well Pad Name: Nalle	y Pad

18)

CASING AND TUBING PROGRAM

ТУРЕ	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#	300'	300,	CTS, 313Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	14,700'	14,700'	CTS, 2776 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Began Ham'

Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
20"	24"	0.375"	2250	50	Class A	~1.18
13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
2-3/8"	4.778"	0.19"	11,200			
	20" 13-3/8" 9-5/8" 5-1/2"	Diameter (in) 20" 24" 13-3/8" 17-1/2" 9-5/8" 12-1/4" 5-1/2" 8-3/4" & 8-1/2"	Size (in) Wellbore Diameter (in) Thickness (in) 20" 24" 0.375" 13-3/8" 17-1/2" 0.38" 9-5/8" 12-1/4" 0.352" 5-1/2" 8-3/4" & 8-1/2" 0.415"	Size (in) Wellbore Diameter (in) Thickness (in) Burst Pressure (psi) 20" 24" 0.375" 2250 13-3/8" 17-1/2" 0.38" 2730 9-5/8" 12-1/4" 0.352" 3520 5-1/2" 8-3/4" & 8-1/2" 0.415" 14,360	Size (in) Wellbore Diameter (in) Thickness (in) Burst Pressure (psi) Max. Internal Pressure (psi) 20" 24" 0.375" 2250 50 13-3/8" 17-1/2" 0.38" 2730 1000 9-5/8" 12-1/4" 0.352" 3520 1500 5-1/2" 8-3/4" & 8-1/2" 0.415" 14,360 2500	Size (in) Wellbore Diameter (in) Thickness (in) Burst Pressure (psi) Max. Internal Pressure (psi) Cement Type 20" 24" 0.375" 2250 50 Class A 13-3/8" 17-1/2" 0.38" 2730 1000 Class A 9-5/8" 12-1/4" 0.352" 3520 1500 Class A 5-1/2" 8-3/4" & 8-1/2" 0.415" 14,360 2500 Class G/H

PACKERS

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

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): 34.58 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 6.43 acres
- 23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A cement.

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

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

25) Proposed borehole conditioning procedures:

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

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

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

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

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

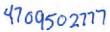
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Operator's Well No. Greenwood Unit 1H

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
	Paden City 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed w	
Will a pit be used? Yes No ✓	W. W. D. W. 442-14-14-14-14-14-14-14-14-14-14-14-14-14-
	eack Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
	so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
 Underground Injection (UIC Permit Number *UIC Per 	rmit # will be provided on Form WR-34
Reuse (at API Number Future permitted well locations when app	The state of the s
Off Site Disposal (Supply form WW-9 for disposal loc Other (Explain	Northwestern Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttir	ngs removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater	
-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.	uttings stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lin	me, sawdust) N/A
	-98), Northwestern Landfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of of West Virginia solid waste facility. The notice shall be provided within 24 hours of where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the G on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or cond law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and ar application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, and penalties for submitting false information, including the possibility of fine or important to the certification of the Gas of the West Virginia Department of the Gas of the Gas of the West Virginia Department of the Gas of the West Virginia Department of the Gas o	of Environmental Protection. I understand that the dition of the general permit and/or other applicable in familiar with the information submitted on this of those individuals immediately responsible for complete. I am aware that there are significant
Company Official Signature Gretchen Kohler	REGEIVED.
Company Official (Typed Name) Gretchen Kohler	REGEIVED Office of Oil and Gas
Company Official Title	DEC. 2 0 2021
Subscribed and sworn before me this 15 day of Qec	WV Department of Environmental Protection
Quine Blain	Notary Public DIANE BLAIR
My commission expires 27 Apr 2024	NOTARY PUBLIC STATE OF COLORADO NOTARY ID 194928/2022



Form WW-9 Operator's Well No. Greenwood Unit 1H Antero Resources Corporation Proposed Revegetation Treatment: Acres Disturbed 34.58 Prevegetation pH Lime 2-4 Tons/acre or to correct to pH 6.5 Fertilizer type Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Main Access Road (12.51 acres) + Access Road 2 (18acres) + Staging Area B (1.99) + Well Pad (6.43 acres) + Spoil Pile 1 (3.33 acres) + Topsoil (11.04 acres) = 34.58 Seed Mixtures Temporary Permanent lbs/acre Seed Type lbs/acre Seed Type Annual Ryegrass 10-15 40 Crownvetch Tall Fescue 30 Field Bromegrass 40 See attached Table IV-3 for additional seed type (Nalley Pad Design) See attached Table IV-4A for additional seed type (Nalley Pad Design) *or type of grass seed requested by surface owner *or type of grass seed requested by surface owner Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:

Inspector

Field Reviewed?

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U	/2	.0	Z	U	Z	_

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

RECEIVED Office of Oil and Gas

DEC 20 2021

WV Department of Environmental Protection 13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

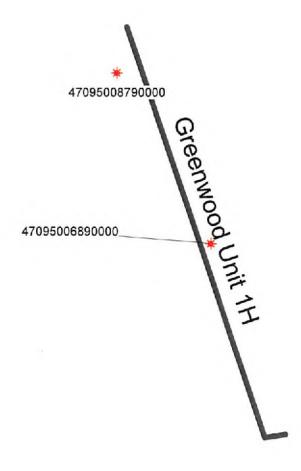
Drilling Fluid Lubricant

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Office of Oil and Gas

DEC 20 2021

WV Department of Environmental Protection







Antero Resources Corporation

Greenwood Unit 1H - AOR





Gas Well
December 13, 2021

RECEIVED Office of Oil and Gas

DEC 2 0 2021

WV Department of Environmental Protection

01/28/2022

UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095008790000	JOHNSON WILLIAM	2	LIPPIZAN PETRO INC	EMES JIM PET	3,019	2830 - 2868	Gordon	Berea, Alexander, Benson
47095006890000	STARKEY CLAIR	4	LIPPIZAN PETRO INC	EMES JIM PET	3,150	2900 - 2930	Gordon	Berea, Alexander, Benson

office of Oil and Gas

DEC 2 0 2021

W/V Department of Environmental Protection



911 Address 2983 Tyler Highway Sisterville, WV 26175

Well Site Safety Plan Antero Resources

Well Name: Nalley Unit 5H

Byon Hami 1-5-22

Pad Location: NALLEY PAD

Tyler County/Lincoln District

GPS Coordinates:

Entrance - Lat 39.537176"/Long -80.956037" (NAD83)

Pad Center - Lat 39.544550"/Long -80.954729" (NAD83)

Driving Directions: From Sistersville, WV Head south on WV-2/Chelsea street for 1 mile. Turn left onto WV-18 S/Tyler Highway and continue for 2.9 miles. Access road will be on left.

Alternate Route: From the Volunteer Fire Department in Middlebourne, WV-Head northeast on WV-18N/Mains St towards Sistersville, WV for 8.2 miles. The access road will be on your right.

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



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

December 14, 2021

West Virginia Department of Environmental Protection Division of Water and Waste Management 601 57th Street SE Charleston, WV 25304

RE: Water Management Plan Updates

Nalley Pad (WMP #1840)

To Whom It May Concern:

Antero Resources (Antero) is submitting the enclosed updates to the Nalley Pad Water Management Plan (WMP) to the WV Department of Environmental Protection (DEP) Division of Water and Waste Management (DWWM). This WMP is being submitted for your review and approval in order to replace Antero's previously approved WMP.

Below are the changes made to the previous version of the Nalley WMP:

- Updated Heaster Freshwater Impoundment to Heaster Centralized Waste Pit
- · Updated well pad sources for reused frac water.

Additionally, as part of Antero's recently completed stream profiling projects, the previously calculated passby thresholds have been updated at the following two (2) water withdrawals. Supporting documentation is provided in the enclosed WMPs.

- •Fishing Creek at Blair Revised passby threshold of 17.69 cfs at a stage height of 0.50 ft (on staff gauge)
- •Point Pleasant Creek at Reel Revised passby threshold of 1.95 cfs at a stage height of 1.47 ft (on staff gauge)

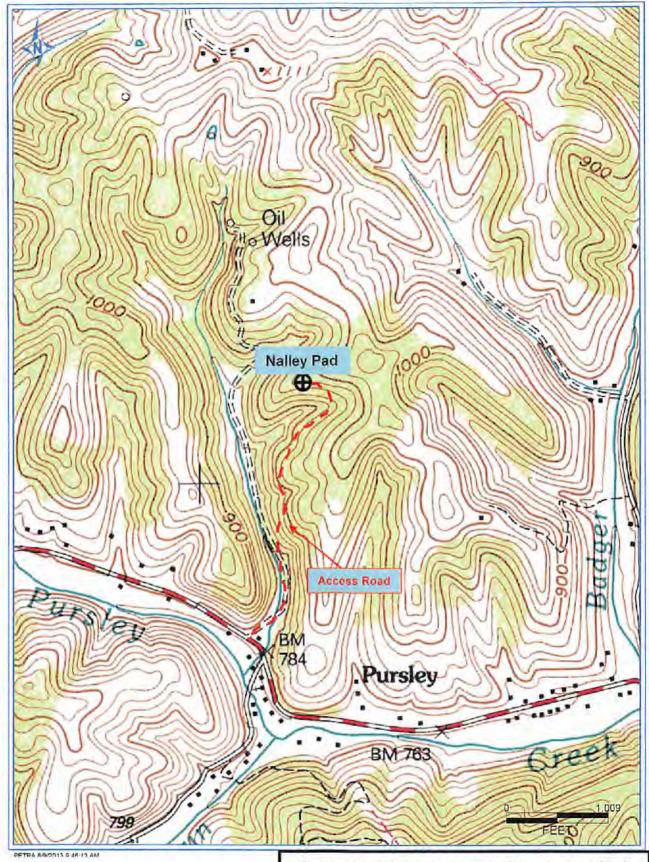
Should you have questions or require additional information, please contact me directly at (303) 357-6893 or via email at sdonovan@anteroresources.com. Your assistance in this matter is appreciated.

Respectfully,

Shawn Donovan

Environmental & Regulatory Manager

Enclosures



Antero Resources Corporation

Appalachian Basin Nalley Pad Tyler County

Quadrangle: Paden City

Watershed: Point Pleasant Creek District: Lincoln

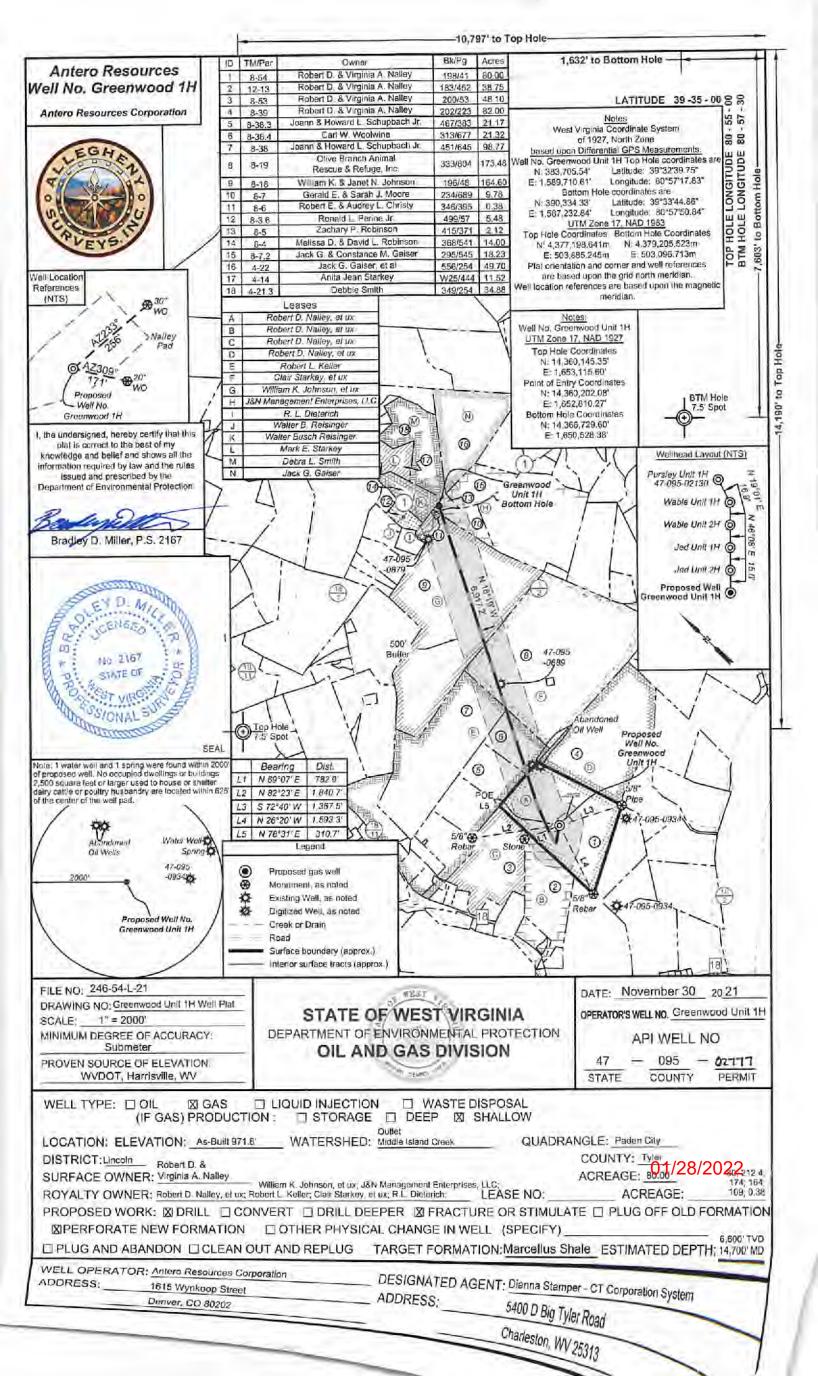
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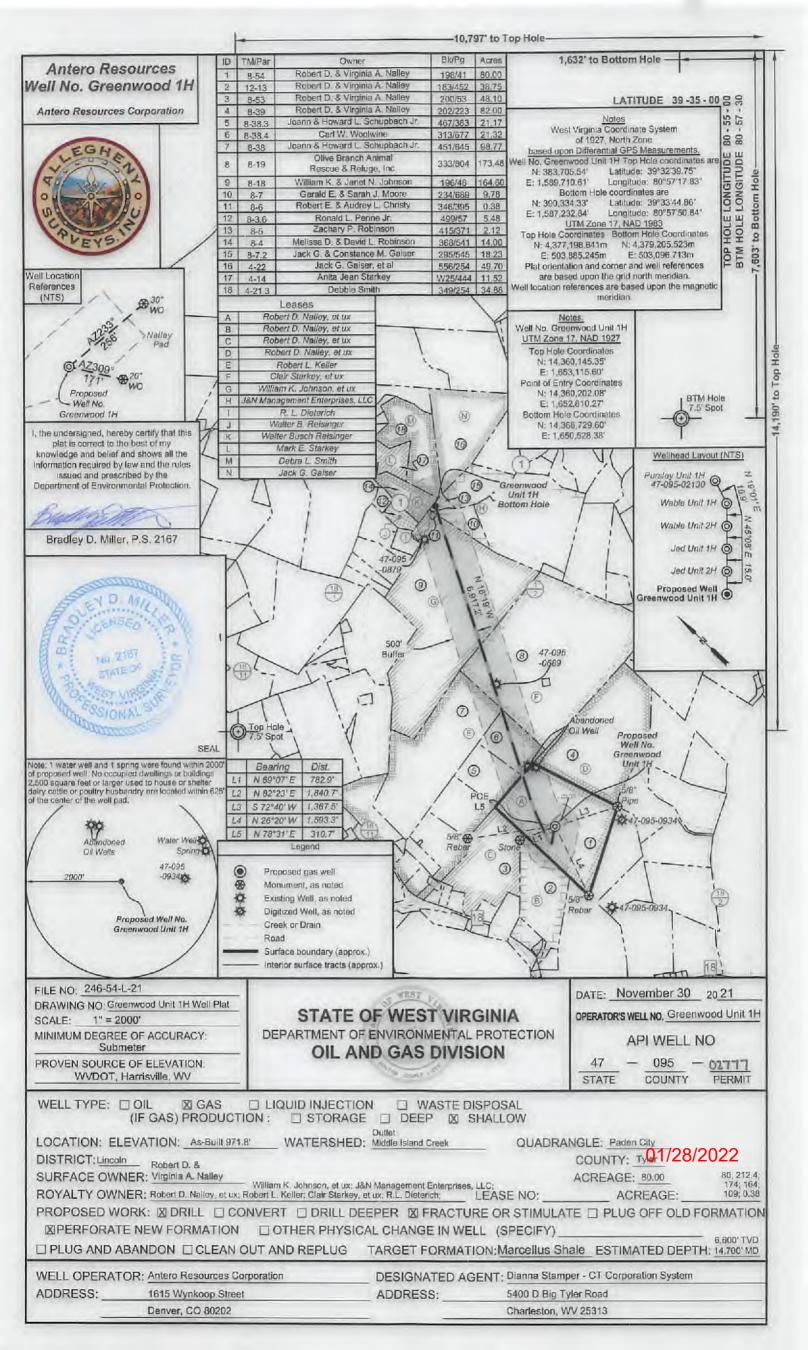
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NV Department of Environment all Protection

d Gas

01/28/2022





Operator's Well Number

Greenwood Unit 1H

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
4	Robert D. Nalley et ux Lease Robert D. Nalley and Virginia A. Nalley husband and wife	Antero Resources Corporation	1/8+	0134/0010
E	Robert L. Keller Lease Robert L. Keller James T. Harkins Trustee in Bankruptcy of Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Antero Resources Appalachian Corporation	Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment	0230/0379 0280/0521 0302/0109 0402/0303 0557/0430
F	Clair Starkey, et ux Lease Clair Starkey, et ux John Richmond Jack Holden John Richmond James T. Emes and Barbra G. Emes his wife James T. Harkins Trustee in Bankruptcy of Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Sun Valley Oil and Gas LLC Antero Resources Appalachian Corporation	John Richmond Jack Holden John Richmond James T. Emes Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Sun Valley Oil and Gas LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment	0203/0045 0212/0358 0216/0615 0217/0009 0220/0272 0280/0521 0302/0109 0390/0663 0393/0750 0557/0430
૯	William K. Johnson, et ux Lease	John Richmond Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Sun Valley Oil and Gas LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Assignment	0220/0459 0230/0507 0280/0521 0302/0109 0390/0663 0393/0750 0557/0430
1	R.L. Dieterich Lease Ronald Lee Dieterich	Antero Resources Corporation	1/8+	Office of Oil and 63370561 DEC 20 2021

W Department of Environmental Protection

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
$\mathcal{H}^{\bar{i}\bar{i}}$	RN Management Enterprises, LLC Lea	Lease	Antero Resources Corporation	1/8+	0621/0581

*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 initiately and Gas permits/approvals should be acquired from the appropriate authority before the affected activity is initiately 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 initiately 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 initiately and Gas permits/approvals should be acquired from the appropriate authority before the affected activity is initiately and Gas permits/approvals should be acquired from the appropriate authority before the affected activity is initiately and Gas permits and Gas permits are not appropriate authority before the affected activity is initiately approval to the control of the control of

Well Operator:	Antero Resourc	es Corporation	DEC 20 2021
By:	Tim Rady	Toil -	WV Department of Environmental Protection
Its:	VP of Land	1	Environmen



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

December 15,2021

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

RE: Greenwood Unit 1H-Nalley Pad

Quadrangle: Paden City 7.5'

Tyler County/Lincoln District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Greenwood Unit 1H 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 Greenwood Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tyler Adams Landman

Office of Oil and Gas

DEC 20 2021

WV Department of Environmental Protection

API No. 47- 095 -___

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

*PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED	it 1H
Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the I below for the tract of land as follows: State: West Virginia	
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the I below for the tract of I and as follows: State: West Virginia District: Lincoln Quadrangle: Paden City 7.5' Outlet Middle Island Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ter information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice require of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Public Road Access: WV-18 Tyler WV-18 Tyler WV-18 Tyler Highway Robert D. Nalley et ux WV-18 Tyler Highway Robert D. Nalley et ux WV-18 Tyler Highway Robert D. Nalley et ux VW-18 Tyler Highway Rober	
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	RECEIVED/ NOT REQUIRED
□ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
RECOIL and	RECEIVED
5. PUBLIC NOTICE Office of R	RECEIVED
6. NOTICE OF APPLICATION WV Departmental Providents Environmental Providents Environmental Providents **The control of the control o	ÆCEIVED

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: , 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 By:

Sr. VP of Operations Its:

303-357-7310 Telephone:

1615 Wynkoop Street Address:

Denver, CO 80202

303-357-7315 Facsimile:

mstanton@anteroresources.com Email:

DYATHER BEAM NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Subscribed and sworn before me this 15th day of Occ 2021.

Notary Public

My Commission Expires

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.

WW-6A (9-13) 47095 - 950277 7
API NO. 47-095 - 950277 7
OPERATOR WELL NO. Greenwood Unit 1H
Well Pad Name: Nalley Pad

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

Notic	e Time Requirer	ment: notice shall be provide	ed no later than	the filing date of permit application.	
Date	of Notice: 12/15/20	21 Date Permit Application	on Filed: 12/15	2021	
Notic	4-0-7-1				
		D CERTIFIC	ATE OF ADD	DOWAL FOR THE	
	PERMIT FOR A	가는 100mm (100mm) 100mm (100mm		ROVAL FOR THE	
	WELL WORK	CONSTRU	CTION OF A	N IMPOUNDMENT OR PIT	
Deliv	ery method purs	uant to West Virginia Cod	le § 22-6A-10((b)	
	PERSONAL	REGISTERED	✓ METHO	DD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECEU	PT OR SIGNATURE CONFIRMATION	
sedim the su oil an descri operat more well v impou have a provide proposubse record provide Code	tent control plan re orface of the tract of d gas leasehold be libed in the erosion tor or lessee, in the coal seams; (4) The work, if the surface andment or pit as of a water well, sprin de water for consu- sed well work action (b) of this sed ds of the sheriff re- sion of this article R. § 35-8-5.7.a re-	equired by section seven of the on which the well is or is proposed and sediment control plan subsequent the tract of land on when event the tract of land on when event is to be used for the pladescribed in section nine of the gor water supply source local mption by humans or domest ivity is to take place. (c)(1) If section hold interests in the languired to be maintained pursuate to the contrary, notice to a lie equires, in part, that the opera	is article, and the osed to be local divell work, if bmitted pursuantich the well preface tract or tracement, construits article; (5) A ted within one to animals; and more than threeds, the applicant to section en holder is not tor shall also present diversity of the shall diversity of the shall also present diversity of the shall d	r signature confirmation, copies of the application, the enter well plat to each of the following persons: (1) The owners of record of the surface tract or tract the surface tract is to be used for roads or other land distinct to subsection (c), section seven of this article; (3) The opposed to be drilled is located [sic] is known to be undects overlying the oil and gas leasehold being developed function, enlargement, alteration, repair, removal or abandany surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well pad (6) The operator of any natural gas storage field withing tenants in common or other co-owners of interests described in the surface and surface the documents required upon the person described, article one, chapter eleven-a of this code. (2) Notwood to a landowner, unless the lien holder is the landowner of the surface as provided in section 15 of this rule.	rners of record of ts overlying the sturbance as e coal owner, rlain by one or by the proposed donment of any e applicant to which is used to which the cribed in scribed in the vithstanding any owner. W. Va.
				☑ Well Plat Notice is hereby provided to:	
	RFACE OWNER		1	☐ COAL OWNER OR LESSEE	
Name			/	Name: NO DECLARATIONS ON RECORD WITH COUNTY	
	ess: 2549 Tyler High	vay		Address:	
	Sistersville, WV 2	6175-9152			
Name	e:			COAL OPERATOR	
Addr	ess:			Name: NO DECLARATIONS ON RECORD WITH COUNTY	
T CY	DEACE OUNIE	Val (Dandand/an Odban Dia	and an as	Address:	
200		R(s) (Road and/or Other Dist		WATER PURVEYOR(s)/OWNER(s) OF WATER WELL.	
Name				WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE	
Audi				Name: NO WELLS WITHIN 1500'	
Name				Address:	RECEIVED Gas
Addr	ess:				Office of Oil and Gas
				☐ OPERATOR OF ANY NATURAL GAS STORA Name:	GE FIEFD & O SOLL
□ SU	RFACE OWNER	R(s) (Impoundments or Pits)		Name:	DLO - ant of
Name	e:			Address:	WV Department of Environmental Protection
Addr	ess:			*DI	Environment
				*Please attach additional forms if necessary	

API NO, 47-095 - 02777
OPERATOR WELL NO, Greenwood Unit 1H
Well Pad Name: Nalley 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.

RECEIVEU

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 DEC 2 0 702

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 Fright mental Prote 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-nnd-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 WW-6A (8-13) API NO. 47-095 - 02177
OPERATOR WELL NO. Greenwood Unit 1H

Well Pad Name: Nalley 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 and 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

DEC 20 2021

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.

API NO. 47- 095 OPERATOR WELL NO. Greenwood Unit 1H
Well Pad Name: Nalley Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

WW-6A (8-13) API NO. 47- 095 - U 1777
OPERATOR WELL NO. Greenwood Unit 1H
Well Pad Name: Nalley Pad

Notice i	sl	ereby	given	by:
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Well Operator: Antero Resources Corporation

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

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

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 15 Htay of Occ. 2021.

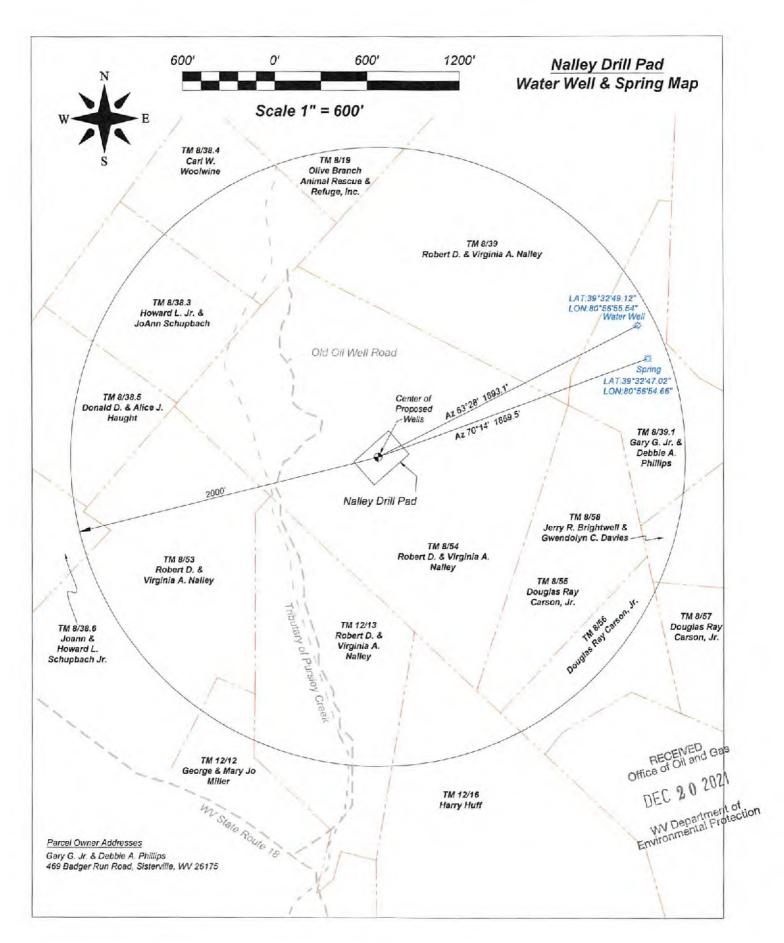
Notary Public

My Commission Expires 27 Apr 2024

Office of Oil and Gas

DEC 20 2021

WV Department of Environmental Protection



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

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

Date of Notic		rovided at least TEN (10) days prior to filing a Date Permit Application Filed: 12/15/2021	permit application.
Delivery met	nod pursuant to West Virginia	Code § 22-6A-16(b)	
☐ HAND	CERTIFIED M.	AIL	
DELIVE	RY RETURN REC	EIPT REQUESTED	
receipt reques drilling a hori of this subsect subsection ma and if availab	ted or hand delivery, give the su zontal well: <i>Provided</i> , That no tion as of the date the notice want by be waived in writing by the su	ast ten days prior to filing a permit application, inface owner notice of its intent to enter upon the tice given pursuant to subsection (a), section to see provided to the surface owner: Provided, however a provided to the notice, if required, shall include mail address of the operator and the operator and the operator.	ne surface owner's land for the purpose of en of this article satisfies the requirements vever. That the notice requirements of this ude the name, address, telephone number,
	t D. & Virginia A. Nalley	Name:	
Address: 2549	Tyler Hwy	Address:	
Sister	sville, WV 26175-9152		
Notice is he Pursuant to W	est Virginia Code § 22-6A-160	b), notice is hereby given that the undersigned	well operator has an intent to enter upon
Pursuant to W the surface ov State:	est Virginia Code § 22-6A-160	illing a horizontal well on the tract of land as for the tract of land	well operator has an intent to enter upon bllows: 503885.24m 4377198.64m WV-18 (Tyler Hwy)
Pursuant to W the surface ov State: County:	Vest Virginia Code § 22-6A-16(vner's land for the purpose of di West Virginia Tyler	rilling a horizontal well on the tract of land as for the state of land as for the tract of land	503885.24m 4377198.64m
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Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he	Vest Virginia Code § 22-6A-16(Vest Virginia Tyler Lincoln Paden City Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16 where and electronic mail addressized and complete in the	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of	ollows: 503885.24m 4377198.64m WV-18 (Tyler Hwy) Robert D. & Virginia A. Nalley ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
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Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	Vest Virginia Code § 22-6A-16(Vest Virginia Tyler Lincoln Paden City Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16 where and electronic mail addressized and complete in the	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting www.de	ollows: 503885.24m 4377198.64m WV-18 (Tyler Hwy) Robert D. & Virginia A. Nalley ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. : Mallory Stanton 1615 Wynkoop Street Office of Office and Office of Offic
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato Address:	Vest Virginia Code § 22-6A-16(vner's land for the purpose of di West Virginia Tyler Lincoln Paden City Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-1 inber and electronic mail addre- rizontal drilling may be obtaine 57th Street, SE, Charleston, Wireby given by: r: Antero Resources Corporation 1615 Wynkoop Street	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting www.de	ollows: 503885.24m 4377198.64m WV-18 (Tyler Hwy) Robert D. & Virginia A. Nalley ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. : Mallory Stanton 1615 Wynkoop Street Office of Collago and Collago.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nur related to hor located at 601 Notice is he Well Operato	Vest Virginia Code § 22-6A-16(Vest Virginia Tyler Lincoln Paden City Outlet Middle Island Creek Shall Include: West Virginia Code § 22-6A-16 The moder and electronic mail addresizontal drilling may be obtained for Street, SE, Charleston, Wirely given by: T: Antero Resources Corporation 1615 Wynkoop Street Denver, CO 80202	Tilling a horizontal well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of V 25304 (304-926-0450) or by visiting www.department of Authorized Representative: Address:	ollows: 503885.24m 4377198.64m WV-18 (Tyler Hwy) Robert D. & Virginia A. Nalley ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12) 47 095 0 2777 Operator Well No. Greenwood Unit 1H

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

Notice Time Date of Notic	Requirement: notice shall be procee: 12/15/2021 Date Po	vided n ermit A	o later than the filing opplication Filed: 12/15	late of permit : /2021	application.	
Delivery met	hod pursuant to West Virginia	Code §	22-6A-16(c)			
■ CERTII	FIED MAIL		HAND			
	RN RECEIPT REQUESTED	_	DELIVERY			
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	V. Va. Code § 22-6A-16(c), no larequested or hand delivery, give operation. The notice required by provided by subsection (b), section (c), and (d) A propose surface affected by oil and gas are required by this section shall be	the surf by this s on ten of sed surf operation e given	ace owner whose land ubsection shall include of this article to a surfa- face use and compens- ins to the extent the da- to the surface owner a	will be used for e: (1) A copy ce owner whose ation agreement mages are comp	or the drilling of a of this code sect e land will be use t containing an opensable under ar	horizontal well notice of tion; (2) The information and in conjunction with the offer of compensation for ticle six-b of this chapter.
	eby provided to the SURFACE s listed in the records of the sheri					
	rt D, & Virginia A. Nalley		Name:			
Address: 2549	Tyler Highway	_/	Address			
Sister	sville, WV 26175-9512					
State: County: District:	the surface owner's land for the p West Virginia Tyler Lincoln	,ui pose	UTM NAD 8 Public Road	Easting: Northing:	503885.24m 4377198.64m WV-18 Tyler Highway	
Quadrangle:	Paden City 7.5'		Generally use	d farm name:	Robert D. Nalley et u	X .
Watershed:	Outlet Middle Island Creek		-			
Pursuant to V to be provide horizontal we surface affect information to	Shall Include: Vest Virginia Code § 22-6A-16(ced by W. Va. Code § 22-6A-10(cell; and (3) A proposed surface us ted by oil and gas operations to related to horizontal drilling may located at 601 57th Street, SE,	b) to a se and co the exte be obt	surface owner whose ompensation agreement the damages are co ained from the Secret	land will be un the containing are impensable und ary, at the WV	used in conjunction offer of comper ler article six-b of Department of	on with the drilling of a sation for damages to the f this chapter. Additional Environmental Protection
gas/pages/de						RECEIVED Gas
Well Operato			Address:	1615 Wynkoop Stre	et	DEC 3 0 5051
Telephone:	(303) 357-7310		100000101010	Denver, CO 80202		DEC DO
Email:	mstanton@anteroresources.com		Facsimile:	303-357-7315		AND Department of
	Privacy Notice: f Oil and Gas processes your pers	onal inf	ormation, such as nam	e, address and t	telephone number	WV Department of WV Department of Environmental Protection Environmental Protection 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 - 02717

OPERATOR WELL NO. Greenwood Unit 1H
Well Pad Name: Nalley 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

County: District:		M NAD 83	503885.24m
District	Tyler	Northing:	
		blic Road Access:	WV-18 (Tyler Hwy)
Quadrangle:		nerally used farm name:	Robert D. Nalley et ux
Watershed:	Outlet Middle Island Creek		
*Please chec	k the box that applies	FOR EXECUT	TON BY A NATURAL PERSON
*Please chec	k the box that applies	FOR EXECUT	ION BY A NATURAL PERSON
CI STIDEA	CE OWNED		Section of the sectio
□ SURFA	CE OWNER	Signature:	
	CE OWNER CE OWNER (Road and/or Other Disturbance)	Print Name:	
□ SURFA	CE OWNER (Road and/or Other Disturbance)	Print Name: Date:	
□ SURFA	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Print Name: Date: FOR EXECUT	TON BY A CORPORATION, ETC.
□ SURFA	CE OWNER (Road and/or Other Disturbance)	Print Name: Date: FOR EXECUT Company:_	TION BY A CORPORATION, ETC.
□ SURFA	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits)	Print Name: Date: FOR EXECUT Company:_	TION BY A CORPORATION, ETC.
□ SURFAC □ SURFAC □ COAL C	CE OWNER (Road and/or Other Disturbance) CE OWNER (Impoundments/Pits) OWNER OR LESSEE	Print Name: Date: FOR EXECUT Company: By: Its:	TON BY A CORPORATION, ETC.

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.

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. BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
7. Cellulase enzyme	(Proprietary)
8. Demulsifier Base	(Proprietary)
9. Ethoxylated alcohol blend	Mixture
10. Ethoxylated Nonylphenol	68412-54-4
11. Ethoxylated oleylamine	26635-93-8
12. Ethylene Glycol	107-21-1
13. Glycol Ethers	111-76-2
14. Guar gum	9000-30-0
15. Hydrogen Chloride	7647-01-0
16. Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
17. Isopropyl alcohol	67-63-0
18. 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
23. Propylene Glycol	57-55-6
24. Quartz	14808-60-7
25. Sillica crystalline quartz	7631-86-9
26. Sodium Chloride	7647-14-5
27. Sodium Hydroxide	1310-73-2
28. Sugar	57-50-1
29. Surfactant	68439-51-0
30. Suspending agent (solid)	14808-60-7
31. Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
32. Solvent Naptha, petroleum, heavy aliph	64742-96-7
33. Soybean Oil, Me ester	67784-80-9
34. Copolymer of Maleic and Acrylic Acid	52255-49-9
35. DETA Phosphonate	15827-60-8
36. Hexamythylene Triamine Penta	34690-00-1
37. Phosphino Carboxylic acid polymer	71050-62-9
38. Hexamethylene diamine penta	23605-74-5
39. 2-Propenoic acid, polymer with 2 propenamide	9003-06-9
40. Hexamethylene diamine penta (methylene phosphonic ac	cid) 23605-74-5
41. Diethylene Glycol	111-46-6
42. Methenamine	100-97-0
43. Polyethylene polyamine	68603-67-8
44. Coco amine	61791-14-8
45. 2-Propyn-1-olcompound with methyloxirane	38172-91-7

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.)



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **Division of Highways**

D. Alan Reed, P.E.

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

December 13, 2021

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 Nalley Pad, Tyler County

Greenwood Unit 1H Well Site

Dear Mr. Martin.

State Highway Engineer

This well site will be accessed from a DOH permit #06-2013-0438 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off WV 18 in Tyler County MP 26.86.

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

Frey A layten

Cc: Mallory Stanton

Antero Resources Corporation

CH, OM, D-6

File

WV Department of Environmental Protection

LOCATION COORDINATES

ACCESS BOAD "A" ENTRANCE
LATTITUS 28 APROBLE LONGITUDE -AN SASSON (NAD 83)
LATGITUS 39 ASSOND LONGITUDE -AN SASSON (NAD 83)
A STITUSH 30 ASSOND LONGITUDE -AN SASSON (NAD 87)
A STITUSH 30 SOURCE 22 (LTM ROTHE) 30 (STITUSH 22)

ACCESS ROAD TO ENTRANCE
LATGINES TO ADMITCH HAS SHADAN OVAD BY
A RETURN TO ASSESSED LANGITUDE - HE SCHOOL (MIN 2008 I METRES)
N 407523554 E SCHOOLDE (MIN 2008 I METRES) CONTROL OF TANK

LATTUDE: 29 405427 LONGITUDE: 80.056070 (SAD 85) LATTUDE: 29 40400 LONGITUDE: 40.086340 (SAD 27) H 4371526.92 C 80377740 (UTM 20NE 17 METERS)

CENTROID OF MAD LATTINGS TO MERCASE LENGITUDE: -80.050884 (MAD BE) LATTINGS TO ALONG LENGITUDE: -80.057154 (MAD BT) N ANTIGODE T Supend 76 (LTM FORE TO METICS)

GENERAL DESCRIPTION.

THE ACCESS HOADER, WATER CONTAINMENT PAD(S), AND WELL PAD ARE HEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INOTICIDAL MARCELLUS SHALE GAS WELLS

ARTERS RESOURCES CORPORATION WILL OSTAID AN ENGINEERING PERSON FORWARD LONGERSHIP THE WASTE TO THE TRANSPORTATION FURNISHED FOR THE CONVENCEMENT OF TRANSPORTATION FURNISHED OF REGISTARY, PROFIT TO CONVENCEMENT OF

FLOODPLAIN NOTES:
THE PROPERTY SITE IS LOCATED WITHIN YEAR PLOOD YORK "V" PER YEAR FLOOD MAPS (SANDECOING).

ENVIRONMENTAL NOTES:

27020 AND WATLAND BRANCATIONS WHIS PARAGRISTO IN SUPPLIES BY EVAL ENVIRONMENTAL CONSISTIANTS, NOT TO SERVED HIS SITE FOR WATER AND WELLANDS THAT ARE MOST LIKELY WHEN THE SERVED HIS SERVED

AND DESCRIPTION OF THE PROPOSED SHE AND PRESCRIPT HE PROPOSED SHE AS A SHEWHALD HE PROPOSED SHE AS A SHEWHALD HE PROPOSED SHE AS A SHEWHALD HE PROPOSED SHE AS A SHEW AS A SHEW

PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES COMPORATION 335 WHITE GASS BLVD. BESTER OFF WY DECTED PHONE (504) 842-4100 PAS. (0041 842-4102

HI SACCHES - ENVIRONMENTAL ENGINEER & RESULTATION MANAGER OFFICE: (2004) 842-4088 CELL (2004) 476-9770

JUN MERVEIS - DEFECTOR COMPLETIONS OPERATIONS OFFICE (DIGIT 2017-5709 COLL. (DIGIT 809-3422)

AARON KURZLER - CONSTRUCTION MANADER

SOURCE WHERE - DESIGN MANAGER OFFICE (304) 842 4(80 CELL (501) 827-7465 CHARLES E. COMPTON. III - UTURTY COCHEDNATOR CELL. (304) 712-0449

APPROVED

MODIFICATION

WYDEP DOD

2/11/2020

DAVID PATTY - LAND 4017/7 CELL (DOA) 475-0090

ENGINEER SURVEYOR MANTHE ENGINEERING DEC CYRUS S. DONT. PE PROSECT MANAGER/UNGINEER OFFICE (888) 662-485. CELL (649) 686-6747.

ENVIRONMENTAL DEPOSITABLES INC FIGE ENVIRONMENTAL DEPOSITABLES INC FAST I RADIONADO - ENVIRONMENTAL DECIMIENT OFFICE (112) 250-1001 CELL (570) 778-5701

GEOTECHNICAL FERBSYLVARIA SOIL & REICK INC CHESTOFHER W. SAMING - PROJECT ENGURER OFFICE, (112) THE-100G CHEL (11X) SHIF-00G

- RESIDENCE NOTES:

 1 TIMES AND HIS PRESENCE. THE AND WELLANDS, LAKES POINTS, OR RESERVOIRS WITHIN ADDITIONAL HARDOOM SHOULD SHOUL
- SEAT OF THE WELL PAN DOLLING STATE WELLS ON HATELOFF SHEERS WITHIN SEC.
- DRICES, ANY NO APPLANDS CARRING VARIE WELLS ON DIFFERENCE STRING SECTION 250.
 FEET OF THE SEXUL(6) DEED COMMENT
 HILBRIC ARE NO DOCUMENTO IMPELIAND STRUCTURES WITHER RES. INSET OF HIE CONTRE. OF
 HILBRIC ARE NO ASSOCIATIONAL INVIDENCE LARGEN THAN 2.500 SQUARE PERT WITHIN KEIN
 FORT OF THE CONTRE OF THE WILL PAGE.

REPRODUCTION NOTE

TARREST THE STREET STREET AND AN APPLICATION OF THE STREET

THE E WALL SERVICE CONTROL FOR COURT PURPOSE AND ADDRESS OF THE PROPERTY OF TH

ELDON

WELL PAD & WATER CONTAINMENT PAD

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

> ELLSWORTH DISTRICT, TYLER COUNTY, WV BUFFALO RUN-MIDDLE ISLAND CREEK WATERSHED

USGS 7.5 MIDDLEBOURNE, & PADEN CITY QUAD MAPS ((0) (3) 100 0



VUT TO SCALE

WYDOH COUNTY ROAD MAP

DESIGN CERTIFICATION.
THE INVAVIOUS, CONSTRUCTION NOTES, AND
REFERENCE DAMAGNAM ATLACTED HERITO HAVE
BEEN PREPARED IN ACCORDANCE WITH THE
WISH VIRIOUS, COTHE OF THE BILLION, INVESTOR
OF ENVIRONMENTAL PROPERTIES. OFFICE OF OIL,
AND GAS CESS 33—8

MISS Utility of West Virginia 1-809-245-4848 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.

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5 - STORM CONFUTENCE & EAS COMPLETIONS

5 - STORM CONFUTENCE & EAS COMPLETIONS

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FEDOMERATS OF DISTURBANCE AN	EA (AC)
Acties Flood "A" (2.353)	1 126
Access Rose "8" (1477)	5.21
Staging Ave	0.53
Wint Part	12.8
Expres/Tagoni Material Stephene	9.07
Total Affected Area	25.0
Total Wooded Acres Cintution	4.02
Impacts to Eldon J. Hebman Till 1.	1-16
Access Road "A" (1.635)	5.00
Access Road W (1,477)	2.75
Staging Aves	0.83
E coss/Fopsoil Material Disciples	1.75
Total Affected Area	10.3
Total Wooded Acres Distabled	1.76
Impacts to Eldon J. Halman Till (14
Access Road "B"	1.00
Total Affected Area	1.50
Total Wonderf Acres Disauted	0.11
Impacts to Elting J. Heimen Thi 1	8-1
Access Road "A" (718)	2.28
Access Page '6'	Det
Wet Pad	12.0
Excest/forsol Malenal Sectiones	7.50
Total Affected Area	22.7
Total Wooded Acres Distabled	2.13

	Tale Impact Total					
Welland and Impact Cause	FID (SF)	(SF)	(AC)			
Wettere 2 (PEW) (Accome Road)	450	493	9.01			
Vieterd 2 (PSS) (Access Road)	1.673	1,673	8.04			
Winters & (PEM) (Access Road)	1,900	1 900	C DA			

and it was a few and	Pontia	nant Impacts	Tamp impacts	Temp Blattert	Total busine
Stream and Impact Cause		Brackers (I.F)	Collangum ETS	LOD (LF)	(LF)
Stream (2 (Adjust Road)	- 29	- 11	. 0	0	37
Sheers (3 [Acress Road)	58	15	15	17	68
Steam (4 (Access Road)	43	14	- 1	5	500

Stream ID (Access Rose)	275	75	25	0	319
ELD	ON UPHEM	RAL BYREAM B	MENCY ILINEAR F	EET	
W	Permanunt Argunds		Temp, impacts	Temp Distrit	Total impact
Stream and Impact Cause			Controls (LF)	Distance to LOD (LF)	(LP)
Streem 14 (Access Flood)	10	47	0	0	87
Stream 15 (Access Road)	31	5	0		36

Work Marrie	NAD 17	HAD IT IS A LIME	Zive 17	MIND AT CALL & COM
Chimrasho Unit Hy	PH THE PAR 27	NAT 26-26-36 6754	N 4371138 41	LAT 39/39/36.4514
	N. CHRONICE DA	LOWD 45-50-78 0176	# 103643-3A	LONG MINETAL META
Eldovado (I=0 5H	PH IMPORT 29	LAT 30-30-30, 3473	N 43F7541/62	LAT 29-29-09-5235
	OF HAMINGS NO.	LONG -65-57-37, NISH	E 107647.27	LDHG -89-57-27 90M
Renamed to Deets 1H	PE 2001/00/39	LAT SAGASE STIME	9 4251343.84	LAT SHEROH SHOO
	N ISSUED AT	LONG 40-67-87-7000	E SCHOOL ST	LONG WHAT UT I THE
Deville Unit 2H Provitori Unit 2H	N 200108.70	LAT 29-29-30 2007	9.432 (S.48 HE	LATE PAR MICE
	OF TRANSMENT	LCMO 40-87-87 5259	E 52855-27	LONG AN-57-24 SESS
	N 36517LA1	LAT 29-29-39-AGH	N ASTIDANTE	MT AC CALTAI
	Q ISMEET DE	LONG MEET ST ADEZ	@ 303E30.7T	LONG HAS US PRO
Folger my tre	N 365181 48	LAY THE ME COLO	N 4371580 49	LAT 29-29-39 #109
	# 1186975 M	LCNO-46-42-97 INCH	E MOSDIO IT	LONG -80-01-25 630"
Françair Umi 201	PE SMITHE ST	LAT TO MANY	N 437155270	AT 562638 6677
	E !ARRING 38	LCHG-80 61-37 0734	E 920017 JB	LONG BESTON MAN

S

ENGINEERING A ENERGY

TEMENTO PER CENTRAL INCIDENTAL IN Ca/05, Ca

Antero

WATER CONTAINMENT I ASWORTH DISTRICT COUNTY, WEST VIRGINIA ELDON COVER SHERT

(LF)

WELL PAD &



DATE: 03/07/2010 SCALE AS SHOWN SHEET 1 OF 37

