

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, March 15, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for GREENWOOD UNIT 1H

47-095-02777-00-00

Lateral Extension

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: GREENWOOD UNIT 1H

Farm Name: ROBERT D & VIRGINIA A NALLEY

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

Horizontal 6A New Drill
Date Modification Issued: 03/10/2022

Promoting a healthy environment.

API NO. 47-095	- 02777 N	MOD		
OPERATOR WE	LL NO.	Greenwood	Unit 1H	1
Well Pad Name	: Nalley	Pad	-	

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

1) Well Operator: Antero R	espurces Corpora	494507062	095 - Tyler	Lincoln	Paden City 7.5'
1) Well Operator: Antero N	esources corpore	Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Greenwood Unit 1		ad Name: Nalle		
3) Farm Name/Surface Owne	Robert D. Nalley	et ux Public Ro	oad Access: W	/-18 Tyler	Highway /
4) Elevation, current ground:	972' / EI	evation, propose	d post-construct	ion:	
5) Well Type (a) Gas X Other	Oil	Un	derground Stora	ige	
(b)If Gas	Shallow X Horizontal X	Deep			
6) Existing Pad: Yes or No					
7) Proposed Target Formation Marcellus Shale: 6600' TVD	n(s), Depth(s), Antic				
8) Proposed Total Vertical De	epth: 6600' TVD	/			
9) Formation at Total Vertica	1 Depth: Marcellus	3			
10) Proposed Total Measured	Depth: 22,600'	1			
11) Proposed Horizontal Leg	Length: 14,633'	/			
12) Approximate Fresh Water		158'			
13) Method to Determine Fre 14) Approximate Saltwater D		17-095-00912-0	000 /		
15) Approximate Coal Seam	Depths: 483'				
16) Approximate Depth to Po		ine, karst, other):	None Anticipa	ated	
17) Does Proposed well locat directly overlying or adjacent		ns Yes	No	, X	
(a) If Yes, provide Mine Inf	o: Name:				RECEIVED Office of Oil and Ga
	Depth:				MAR 0 7 2022
	Seam:				WV Department of
	Owner:		DCN9,1	N	Environmental Protection
			DC Mari	P	
			V		Page 1 of 3
			1		03/18/202

WW-6B	
(04/15)	

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

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	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#	22,600'	22,600' -	CTS, 4767 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							
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		RECEIVED Office of Oil and Gas
		1 2000	MAR 0.7 2022
		De Naria	WV Department of Environmental Protection
		r	Page 2 of 3
			03/18/2022

WW-6B (10/14) API NO. 47- 095 - 02777 MOD

OPERATOR WELL NO. Greenwood Unit 1H

Well Pad Name: Nalley 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): 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:

RECEIVED
Office of Oil and Gas

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: Lead cement- 50/50 class H/POZ + 1.5% sait + 1% C-45 + 0.5% C-10a + 0.2% C-12 + 0.45% C-20 + 0.05% C-31

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

FEB 18 2022

WV Department of Environmental Protection

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.

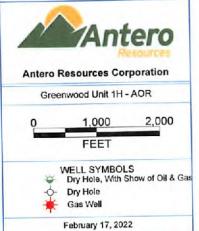
^{*}Note: Attach additional sheets as needed.



RECEIVED Office of Oil and Gas

FEB 1 8 2022

WV Department of Environmental Protection

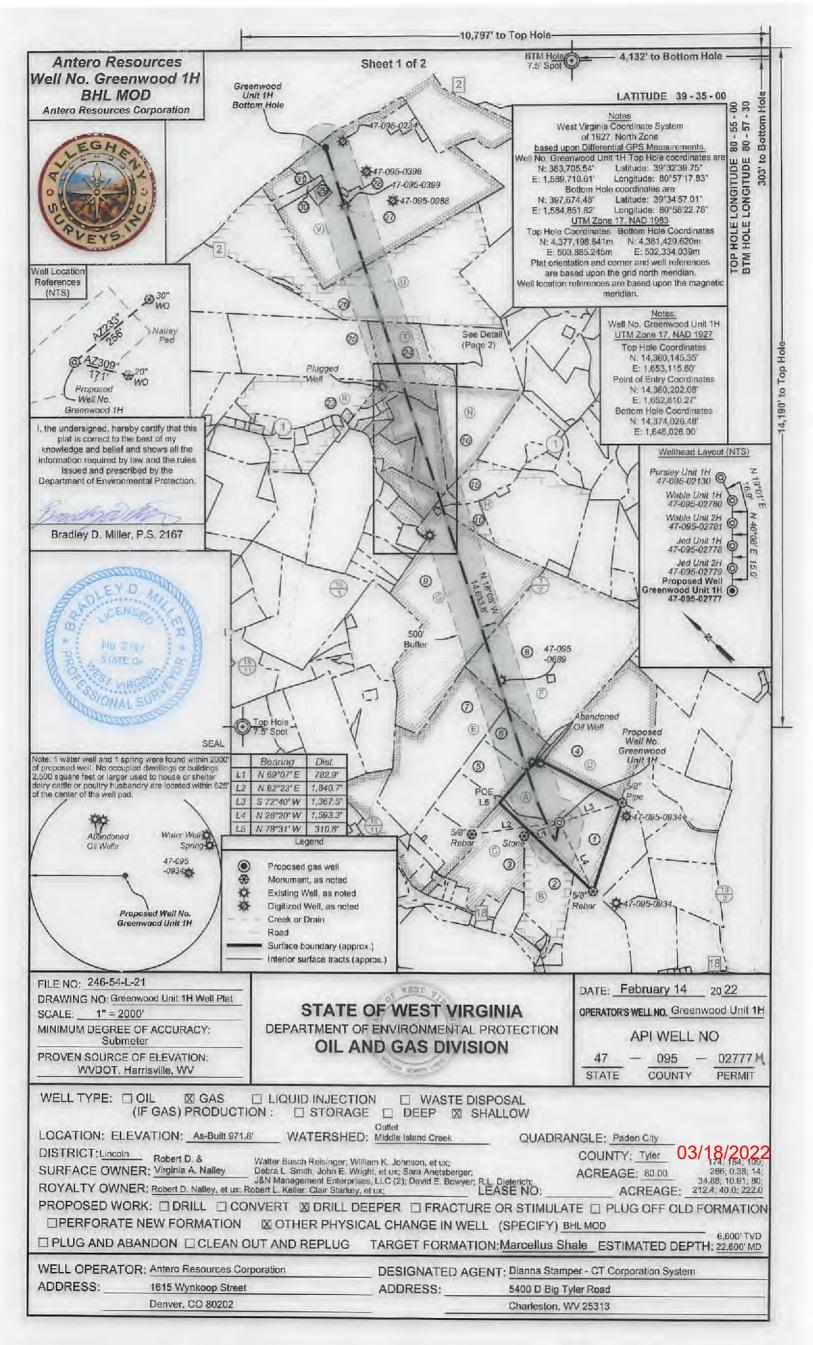


03/18/2022

UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TO	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perfid
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
47095003990000	WM M STEWART	2	STARR H L	STARR H L	4,294	60-60	Gordon	Berea, Alexander, Benson
47095009880000	RUSSELL ESTATE	J-653	ROSS & WHARTON	J & J ENTERPRISES	5,012	2335 - 4200	Gordon	Berea, Alexander, Benson
47095002340000	JOSH RUSSELL HEIRS	1	STRAKOSCH ERNEST	STRAKOSCH ERNEST	2,444		Gordon	Berea, Alexander, Benson

WV Department of Environmental Protection

Office of Oil and Gas



Antero Resources Well No. Greenwood 1H **BHL MOD**

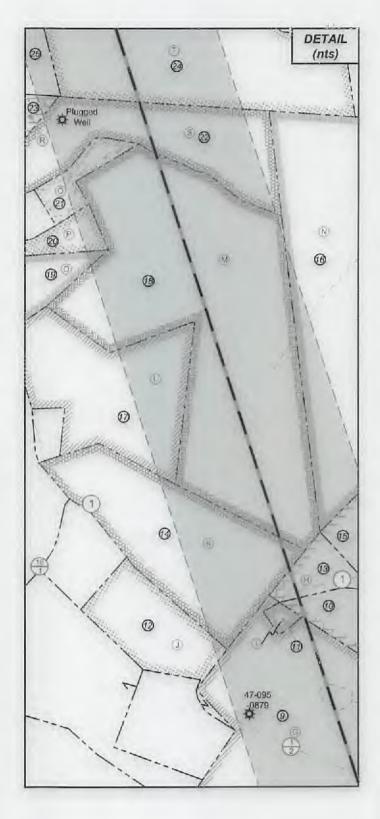
Antero Resources Corporation



	Leases
A	Robert D. Nalley, et ux
В	Robert D. Nalley, et ux
C	Robert D. Nelley, et ux
D	Robert D. Nalley, et ux
E	Robert L. Keller
F	Clair Starkey, et ux
G	William K. Johnson, et ux
Н	J&N Management Enterprises, LLC
1	R. L. Dieterich
J	Watter B. Reisinger
K	Walter Busch Reisinger
L	Ralph E. Starkey
M	Debra L. Smith
N	Jack G. Gaiser
0	Mary Lohri
P	Patriot Real Estate, LLC
Q	Joseph Aaron Wayne
R	John Stansbury McCoach
S	John E. Wright, et ux
T	J&N Management Enterprises, LLC
U	Sara Anetsberger
٧	David E. Bowyer

Sheet 2 of 2

D	TM/Par	Owner	Bk/Pg	Acres
1	8-54	Robert D. & Virginia A. Nalley	198/41	80.00
2	12-13	Robert D & Virginia A. Nalley	183/452	38.75
3	8-53	Robert D. & Virginia A. Nalley	200/53	48.10
4	8-39	Robert D. & Virginia A. Nalley	202/223	82.00
5	8-38.3	Joann & Howard L. Schupbach Jr.	467/383	21.17
6	8-38.4	Carl W. Woolwine	313/677	21.32
7	8-38	Joann & Howard L. Schupbach Jr.	451/645	98.77
8	8-19	Olive Branch Animal Rescue & Refuge, Inc.	333/804	173.48
9	8-18	William K. & Janet N. Johnson	196/48	164.60
10	8-7	Gerald E. & Sarah J. Moore	234/689	9.78
11	8-6	Robert E. & Audrey L. Christy	346/395	0.38
12	8-3.6	Ronald L. Perine Jr.	499/57	499/57
13	8-5	Zachary P. Robinson	415/371	2.12
14	8-4	Melissa D. & David L. Robinson	368/541	14.00
15	8-7.2	Jack G. & Constance M. Gaiser	295/545	18.23
16	4-22	Jack G. Gaiser, et al	556/254	49.70
17	4-14	Anita Jean Starkey	W25/444	11.52
18	4-21.3	Debble Smith	349/254	34.88
19	4-21	Mary Lohri Stewart	349/254	3.02
20	4-21.1	Patriot Real Estate, LLC	633/575	2.96
21	4-16	Joseph Aaron Wayne	354/564	1.90
22	4-21.2	John E. & Linda P. Wright	347/727	10.91
23	4-1	Rhett R. & Teena L. Wetzel	289/589	52.57
24	4-20	Daniel L. Montgomery	389/563	40.00
25	4-95	Joseph Pope & Robert E. Wright	261/220	82.67
26	4-44	William H. McCoy	OR65/450	221.66
27	4-39	Matthew C. & Kelly Stewart	631/298	205.17
28	4-41.1	Matthew C. Stewart	216/345	0.41
29	4-42	David O. & Linda K. Wells	301/9	4.07
30	4-47	Danny W. Cochran & Richard Armstrong	649/163	5.76
31	4-48	David A. & Melissa K. McEldowney	612/325	8.50



FILE NO: 246-54-L-21 DRAWING NO: Greenwood Unit 1H Well Plat

SCALE: 1" = 2000"

DISTRICT:Lincoln

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

WEST.

DATE: February 14 2022 OPERATOR'S WELL NO. Greenwood Unit 1H

API WELL NO

- 095 − 02777 M 47 PERMIT COUNTY STATE

WELL TYPE: □ OIL X GAS ☐ LIQUID INJECTION □ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: As-Built 971.8

Robert D. &

WATERSHED: Middle Island Creek

QUADRANGLE: Paden City

COUNTY: Tyler 03/18/202

AGE: 80.00 266: 0.38: 14; 34.88; 10.91; 80; ACREAGE: 212.4; 40.0; 222.0 ACREAGE: 80.00

SURFACE OWNER: Virginia A. Nalley	Walter Busch Reisinger; William K. Johnson, et ux; Debra L. Smith; John E. Wright, et ux; Sara Anetsberg	
ROYALTY OWNER: Robert D. Nalley, et ux;	J&N Management Enterprises, LLC (2); David E. Bow Robert L. Keller, Clair Starkey, et ux;	LEASE NO:
PROPOSED WORK: DRILL CO	ONVERT IN DRILL DEEPER IN FRACT	URE OR STIMUL

LATE | PLUG OFF OLD FORMATION

□PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHLMOD

TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,600' MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

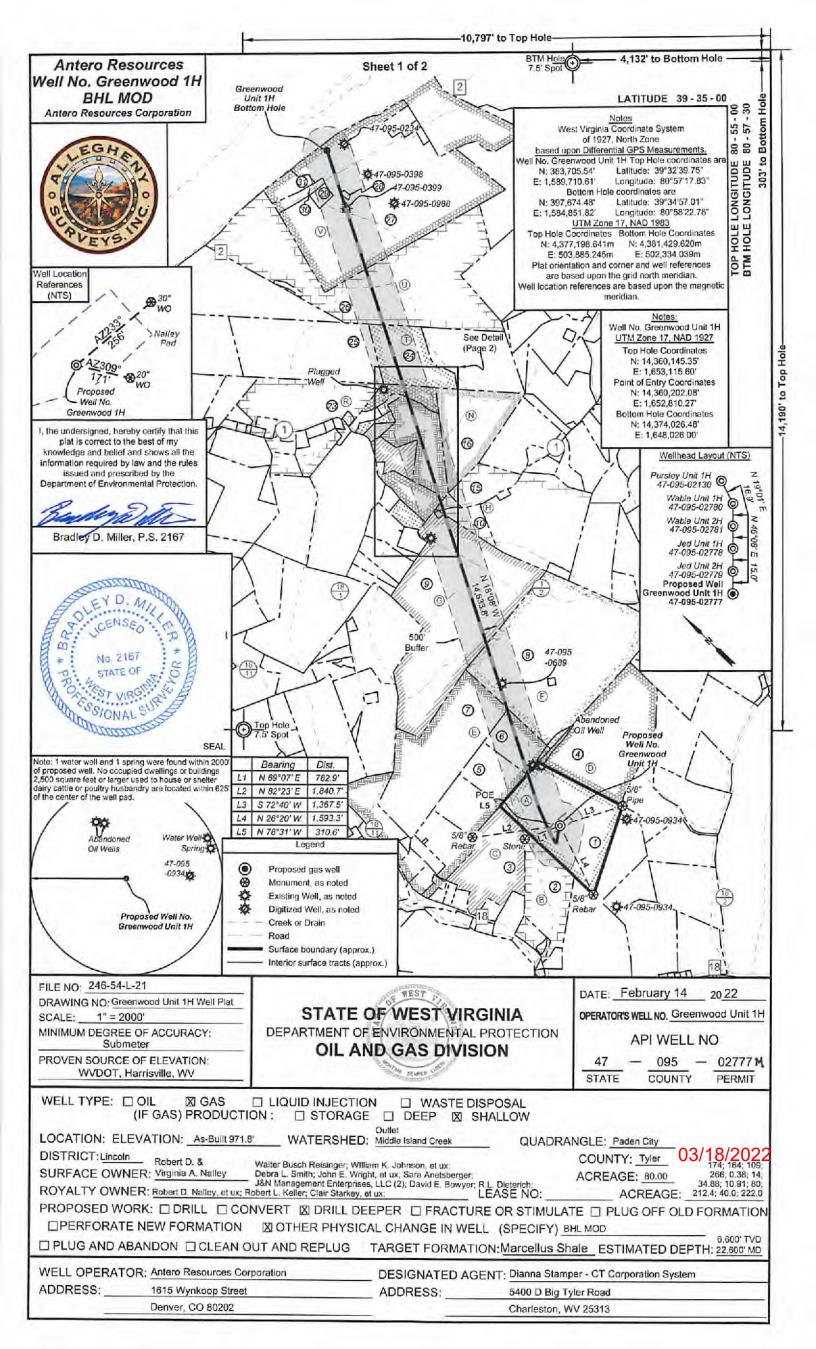
WELL OPERATOR: Antero Resources Corporation

ADDRESS:

DESIGNATED AGENT: Dianna Stamper - CT Corporation System

ADDRESS: 1615 Wynkoop Street Denver, CO 80202

5400 D Big Tyler Road Charleston, WV 25313



Antero Resources Well No. Greenwood 1H **BHL MOD**

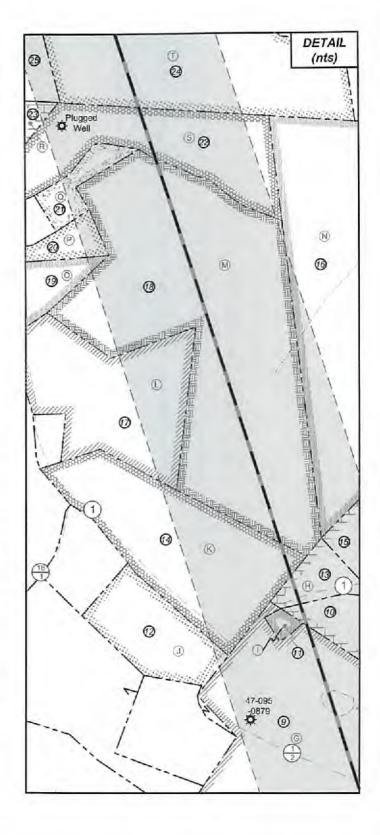
Antero Resources Corporation



	Leases
Α	Robert D. Nalley, et ux
В	Robert D. Nalley, et ux
C	Robert D. Nalley, et ux
D	Robert D. Nalley, et ux
E	Robert L. Keller
F	Clair Starkey, et ux
G	William K. Johnson, et ux
H	J&N Management Enterprises, LLC
1	R. L. Dieterich
J	Waiter B. Reisinger
K	Walter Busch Reisinger
L	Ralph E. Starkey
M	Debra L. Smith
N	Jack G. Gaiser
0	Mary Lohri
P	Patriot Real Estate, LLC
Q	Joseph Aaron Wayne
R	John Stansbury McCoach
S	John E. Wright, et ux
T	J&N Management Enterprises, LLC
U	Sara Anetsberger
٧	David E. Bowyer

Sheet 2 of 2

ID	TM/Par	Owner	Bk/Pg	Acres
1	8-54	Robert D. & Virginia A. Nalley	198/41	80.00
2	12-13	Robert D. & Virginia A. Nalley	183/452	38.75
3	8-53	Robert D. & Virginia A. Nalley	200/53	48.10
4	8-39	Robert D. & Virginia A. Nalley	202/223	82.00
5	8-38.3	Joann & Howard L. Schupbach Jr.	467/383	21.17
6	8-38.4	Carl W. Woolwine	313/677	21.32
7	8-38	Joann & Howard L. Schupbach Jr.	451/645	98.77
8	8-19	Olive Branch Animal Rescue & Refuge, Inc.	333/804	173.48
9	8-18	William K. & Janet N. Johnson	196/48	164.60
10	8-7	Gerald E. & Sarah J. Moore	234/689	9.78
11	8-6	Robert E. & Audrey L. Christy	346/395	0.38
12	8-3.6	Ronald L. Perine Jr.	499/57	499/57
13	8-5	Zachary P. Robinson	415/371	2.12
14	8-4	Melissa D. & David L. Robinson	368/541	14.00
15	8-7.2	Jack G. & Constance M. Gaiser	295/545	18.23
16	4-22	Jack G. Gaiser, et al	556/254	49.70
17	4-14	Anita Jean Starkey	W25/444	11.52
18	4-21.3	Debbie Smith	349/254	34.88
19	4-21	Mary Lohri Stewart	349/254	3.02
20	4-21.1	Patriot Real Estate, LLC	633/575	2.96
21	4-16	Joseph Aaron Wayne	354/564	1.90
22	4-21.2	John E. & Linda P. Wright	347/727	10.91
23	4-1	Rheft R. & Teena L. Wetzel	289/589	52.57
24	4-20	Daniel L. Montgomery	389/563	40.00
25	4-95	Joseph Pope & Robert E. Wright	261/220	82.67
26	4-44	William H. McCoy	OR65/450	221.66
27	4-39	Matthew C. & Kelly Stewart	631/298	205.17
28	4-41.1	Matthew C. Stewart	216/345	0.41
29	4-42	David O. & Linda K. Wells	301/9	4.07
30	4-47	Danny W. Cochran & Richard Armstrong	649/163	5.76
31	4-48	David A. & Mellssa K. McEldownev	612/325	8.50



FILE NO: 246-54-L-21 DRAWING NO: Greenwood Unit 1H Well Plat SCALE: _ 1" = 2000" MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

WVDOT, Harrisville, WV

Denver, CO 80202

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE: February 14 20 22 OPERATOR'S WELL NO. Greenwood Unit 1H

API WELL NO 095 -- 02777 M COUNTY

PERMIT

STATE

Charleston, WV 25313

그리아 그리는 얼마 아이는 아이는 아이는 아니는 그리는 아이는 그 그 사람들이 아니는 그리고 있다.	IQUID INJECTION WASTE DISP	OSAL
(IF GAS) PRODUCTION:	☐ STORAGE ☐ DEEP ☒ SHA	LLOW
LOCATION: ELEVATION: As-Built 971.8'	Outlet WATERSHED; Middle Island Creek	QUADRANGLE: Paden City
DISTRICT: Lincoln Robert D. & Walter	er Busch Reisinger; William K. Johnson, et ux;	COUNTY: Tyler 03/18/2022
SURFACE OWNER: Virginia A. Nalley Debra	a L. Smith; John E. Wright, et ux; Sara Anetsberger;	ACREAGE: 80.00 266; 0.38; 14;
ROYALTY OWNER; Robert D. Nalley, et ux; Robert L.	Management Enterprises, LLC (2); David E. Bowyer; R.L. LE; LE;	Dieterich: 34.88; 10.91; 80; ASE NO: ACREAGE: 212.4; 40.0; 222.0
PROPOSED WORK: ☐ DRILL ☐ CONVER	RT ☑ DRILL DEEPER ☐ FRACTURE	OR STIMULATE PLUG OFF OLD FORMATION
□PERFORATE NEW FORMATION 図	OTHER PHYSICAL CHANGE IN WELL	(SPECIFY) BHL MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT A	AND REPLUG TARGET FORMATION	:Marcellus Shale ESTIMATED DEPTH: 22.600' MD

☐ PLUG AND ABA	ANDON CLEAN OUT AND REPLUG	TARGET FORMATION:	Marcellus Shale	_ ESTIMATED DEPTH: 22,600' MD	
WELL OPERATOR: Antero Resources Corporation		DESIGNATED AGENT	Dianna Stamper -	Stamper - CT Corporation System	
ADDRESS:	1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler F	Pnad	

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
	Robert D. Nalley et ux Lease			
A	Robert D. Nalley and Virginia A. Nalley husband and wife	Antero Resources Corporation	1/8+	0134/0010
	Robert L. Keller Lease			
E	Robert L. Keller	Jim Emes Petroleum Company	1/8	0230/0379
	Jim Emes Petroleum Company	Robert Matthey	Assignment	0280/0521
	Robert Matthey	Bald Eagle Oil and Gas LLC	Assignment	0302/0109
	Bald Eagle Oil and Gas LLC	Antero Resources Appalachian Corporation	Assignment	0402/0303
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	0557/0430
	Clair Starkey, et ux Lease			
F	Clair Starkey, et ux	John Richmond	1/8	0203/0045
	John Richmond	Jack Holden	Assignment	0212/0358
	Jack Holden	John Richmond	Assignment	0216/0615
	John Richmond	James T. Emes	Assignment	0217/0009
	James T. Ernes	Jim Emes Petroleum Company	Assignment	0220/0272
	Jim Emes Petroleum Company	Robert Matthey	Assignment	0280/0521
	Robert Matthey	Bald Eagle Oil and Gas LLC	Assignment	0302/0109
	Bald Eagle Oil and Gas LLC	Sun Valley Oil and Gas LLC	Assignment	0390/0663
	Sun Valley Oil and Gas LLC	Antero Resources Appalachian Corporation	Assignment	RECEIVED 0393/0750
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	Office of Oil and 0557/0430
	William K. Johnson, et ux Lease			FEB 1 8 2022
3	William K. Johnson, et ux	John Richmond	1/8	0220/0459
	John Richmond	Jim Emes Petroleum Company	Assignment	WV Department of 30/0507 Environmental Protection
	Jim Emes Petroleum Company	Robert Matthey	Assignment	Environmental Protection 0280/0521
	Robert Matthey	Bald Eagle Oil and Gas LLC	Assignment	0302/0109
	Bald Eagle Oil and Gas LLC	Sun Valley Oil and Gas LLC	Assignment	0390/0663
	Sun Valley Oil and Gas LLC	Antero Resources Appalachian Corporation	Assignment	0393/0750
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	0557/0430
	R.L. Dieterich Lease			
ļ	Ronald Lee Dieterich	Antero Resources Corporation	1/8+	0653/0561
4	J & N Management Enterprises LLC Lease			
M	J& N Management Enterprises LLC	Antero Resources Corporation	1/8+	621/581
K	Walter Bush Reisinger Lease Walter Busch Reisinger	Antero Resources Corporation	a la	
-	wasti neisiiger	Antero Resources Corporation	1/8+	437/447

^{*}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.

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
N	<u>Debra L Smith Lease</u> Debra L Smith Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	408/440 55 7/430
5	John E Wright et ux Lease John E Wright et ux	Antero Resources Corporation	1/8+	631/591
1	J & N Management Enterprises LLC Lease J & N Management Enterprises LLC	Antero Resources Corporation	1/8+	621/579
U	Sara Anetsberger Lease Sara Anetsberger	Antero Resources Corporation	1/8+	622/666

WW-6A1 (5/13)

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
David E Bowyer Lease				
	David E Bowyer	Antero Resources Corporation	1/8+	0622/327

*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

RECEIVED
Office of Oil and Gas

FEB 18 2022

WV Department of Environmental Protection

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

Well Operator:	Antero Resources Corporation		
By:	Tim Rady (\(\sigma_2\sigma_3\)		
Its:	VP of Land		



February 17, 2022

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Mr. Taylor Brewer 601 57th Street Charleston, WV 25304 Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

Mr. Brewer:

RECEIVED Office of Oil and Gas

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Nalley Pad: Greenwood Unit 1H (47-095-02777-00), Jed Unit 1H (47-095-02780-00).

Attached you will find the following:

- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat
- > AOR

If you have any questions please feel free to contact me at (303) 357-7182.

Thank you in advance for your consideration.

Sincerely,

Mallory Stanton Permitting Supervisor Antero Resources Corporation

Enclosures

CHA 200 MILLON



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Modification Horizontal H6A Well Work Permit API: 47-095-02776, 02777, 02778, 02780)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Mar 15, 2022 at 10:25 AM

To: Mallory Stanton <mstanton@anteroresources.com>, Diane Blair <dblair@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, Douglas Newlon <douglas.c.newlon@wv.gov>, ljackson@wvassessor.com

I have attached a copy of the newly issued well permit number. This will serve as your copy.

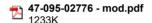
47-095-02776 - CLUTTER UNIT 1H 47-095-02777 - GREENWOOD UNIT 1H 47-095-02778 - JED UNIT 1H 47-095-02780 - WABLE UNIT 1H

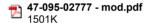
If you have any questions, then please contact us here at the Office of Oil and Gas.

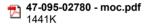
Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

4 attachments







47-095-02778 - mod.pdf 1467K