

west virginia department of environmental protection

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

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

Friday, January 8, 2021
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for TYGART 1H

47-095-02721-00-00

Extending Lateral Length, Total Measured Depth 11000' to 24100'. Updated Leases.

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.

James A. Martin

Chief

Operator's Well Number: TYGART 1H

Farm Name: PATRICIA ANN HEINTZMAN

U.S. WELL NUMBER: 47-095-02721-00-00

Horizontal 6A New Drill Date Modification Issued: 01/08/2021

Promoting a healthy environment.

WW-6B (04/15) API NO. 47-095 - 02721
OPERATOR WELL NO. Tygart Unit 1H
Well Pad Name: Elk Fork Pad

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

1) Well Operator: Antero	Resources	Corpora	494507062	095 - Tyler	Ellsworth	Porters Falls 7.5'
-) operation			Operator ID	County	District	Quadrangle
2) Operator's Well Number	er: Tygart U	nit 1H	Well P	ad Name: Elk F	ork Pad	
3) Farm Name/Surface Ov	vner: Patricia	a Ann Hein	tzman Public Re	oad Access: Elk	Fork Road	1
4) Elevation, current ground	nd: 1126'	E	levation, propose	d post-construct	ion:	
5) Well Type (a) Gas Other	X	_ Oil _	Underground Storage			
(b)If Gas	Shallow	X	Deep			Port and
	Horizonta	ı X			Office	RECEIVED of Oil and Gas
6) Existing Pad: Yes or No	Yes			S 2 2 11	DE	C 2 9 2020
7) Proposed Target Forma Marcellus Shale: 7000'				A SEAL AND LONG TO THE PROPERTY OF	VVV	Department of mental Protection
8) Proposed Total Vertica	Depth: 70	00' TVD				
9) Formation at Total Ver	tical Depth:	Marcellu	S			
10) Proposed Total Measu	red Depth:	24100'				
11) Proposed Horizontal I	leg Length:	14670'				
12) Approximate Fresh W	ater Strata D	epths:	125'			
13) Method to Determine	Fresh Water	Depths:	47-095-00269			
14) Approximate Saltwate	er Depths: 1	703'				
15) Approximate Coal Sea	am Depths:	58'				
16) Approximate Depth to	Possible Vo	oid (coal m	ine, karst, other)	None Anticipa	ated	
17) Does Proposed well lo directly overlying or adjace			Yes	N	o X	7
(a) If Yes, provide Mine	Info: Nam	e:			. ^\	0 0
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WW-6B (04/15) API NO. 47- 095 - 02721

OPERATOR WELL NO. Tygart Unit 1H

Well Pad Name: Elk Fork Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	90'	90'	CTS, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300'	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	24100'	24100'	6219 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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		 	O D U LULU
Kind:	N/A	WV Enviror	Department of mental Protection
Sizes:	N/A		
Depths Set:	N/A		

WW-6B (10/14) API NO. 47- 095 - 02721

OPERATOR WELL NO. Tygart Unit 1H

Well Pad Name: Elk Fork Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:	
Drill a new vertical shallow well into the Marcellus Shale.	
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 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."	1
Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm	
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 43.65 acres	
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 43.65 acres 22) Area to be disturbed for well pad only, less access road (acres): 8.91 acres	
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25) Proposed borehole conditioning procedures:

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

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WV Department of Environmental Protection

*Note: Attach additional sheets as needed.



Tygart Unit 1H



Antero Resources Corporation

Tygart Unit 1H - AOR



WELL SYMBOLS

Location Only

No Wells of Interest REMARKS

November 9, 2020

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WV Department of Environmental Protection Operator's Well Number

Tygart 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
Patricia Ann Heintzman Lease (TM 10 PCL 2)			
Patricia Ann Heintzman	Antero Resources Corporation	1/8+	0594/0309
Norma Smith Lease			
Norma Smith	Antero Resources Corporation	1/8+	0467/0551
Patricia Ann Heintzman Lease (TM 10 PCL 21)			
Patricia Ann Heintzman	Antero Resources Corporation	1/8+	0594/0309
John E. Roberts Lease			
John E. Roberts	Stone Energy Corporation	1/8+	0402/0266
Stone Energy Corporation	Antero Resources Corporation	Assignment	0447/0115
Michael Mercer et ux Lease			
Michael Mercer et ux	Stone Energy Corporation	1/8+	0396/0047
Stone Energy Corporation	Antero Resources Appalachian Corporation	Assignment	0442/0037
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Richard A. Mercer Lease			
Richard A. Mercer	Antero Resources Corporation	1/8	0589/0275
Elizabeth B. Trosch Lease			
Elizabeth B. Trosch	Antero Resources Corporation	1/8+	Office of Oil and Gas
BRC Appalachian Minerals I LLC Lease (TM 6 PCL			DEC 2 9 2020
34) BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	
EQT Production Company	Antero Resources Corporation	Assignment	WV Department 0539/0239 Environmental Protection 0663/0001
James D. VanCamp et al Lease (TM 3 PCL 32)			
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430
Kerry Lemasters et ux Lease			
Kerry Lemasters et ux	Antero Resources Corporation	1/8+	0417/0451
James D. VanCamp et al Lease (TM 3 PCL 48)			
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430

^{*}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)

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Kay Christen Lease			
Kay Christen	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
James D. VanCamp et al Lease (TM 3 PCL 32)			
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430
James D. VanCamp et al Lease (TM 3 PCL 32.2)	√		
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430
Sybil Mae Gorby Lease			
Sybil Mae Gorby	Antero Resources Corporation	1/8	0076/0663
James D. VanCamp et al Lease (TM 3 PCL 32.2)	/		
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430
BRC Appalachian Minerals I LLC Lease (TM 2 PC 8)	<u>.</u>		
BRC Appalachian Minerals I LLC	Statoil USA Onshore Properties	Assignment	0378/0764
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Victor Herbert Boyd II Lease			
Victor Herbert Boyd II	Back Country Exploration	1/8+	0387/0497
Back Country Exploration	Triad Hunter LLC	Assignment	0388/0234
Triad Hunter LLC	Antero Resources Corporation	Assignment	0496/0776

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WV Department of Environmental Protection WW-6A1 (5/13)

Operator's Well No. Th	ygart l	Jnit	1H
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Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Sherry Lynn Chefren Lease	400-200		. 10	0420/0527
	Sherry Lynn Chefren	Antero Resources Corporation	1/8+	0429/0527

*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

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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.

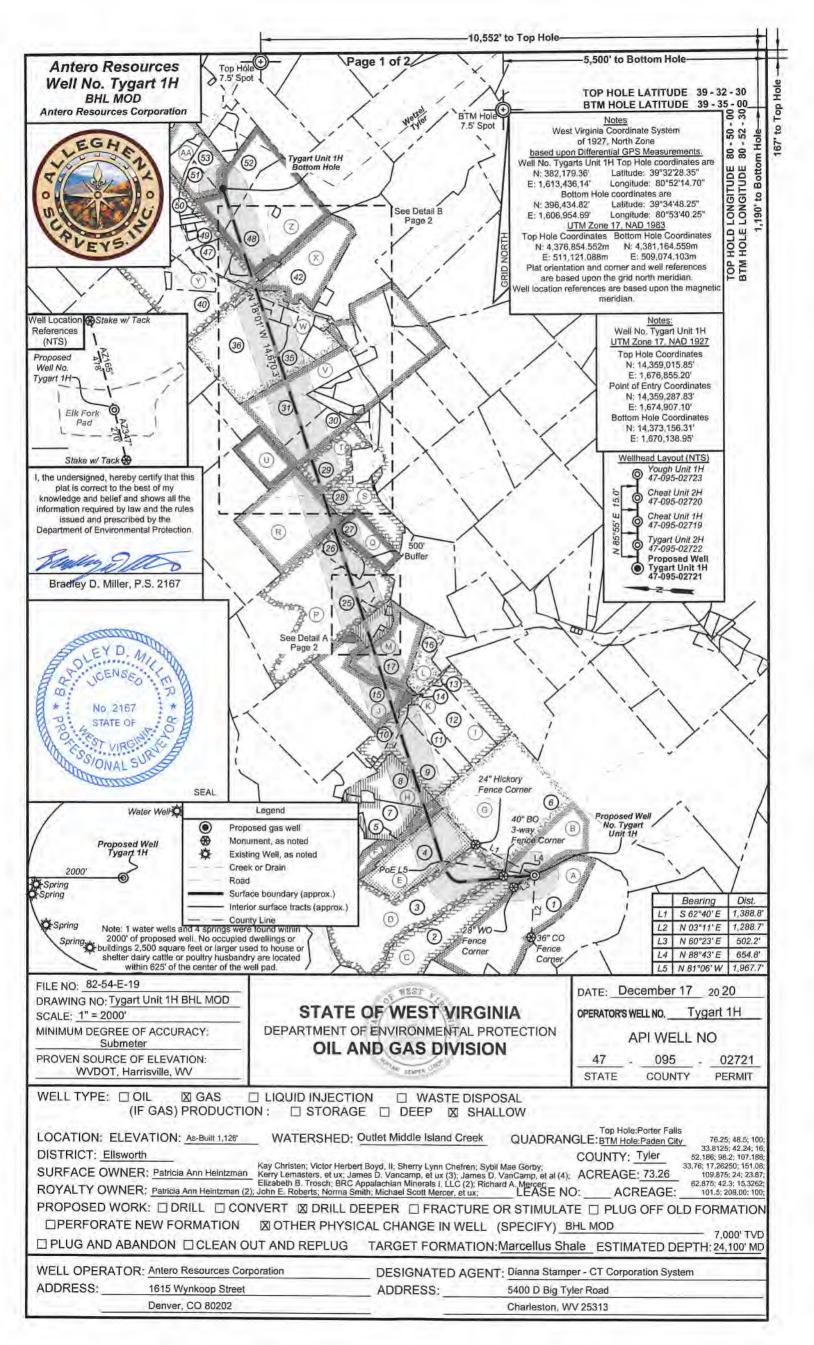
Well Operator: Antero Resources Corporation

By: Tim Rady

Its: VP of Land

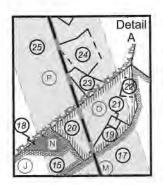
"Co-tenancy utilization — At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.

Page 1 of 1



Antero Resources Well No. Tygart 1H BHL MOD

Antero Resources Corporation



Page 2 of 2

	Lea	ses	
Α	Patricia Ann Heintzman	0	James D. VanCamp, et al
В	Norma Smith	Р	Kay Christen
C	Patricia Ann Heintzman	Q	James D.VanCamp, et ux
D	John E. Roberts	R	James D. VanCamp, et ux
E	Michael Scott Mercer, et ux	S	James D.VanCamp, et al
F	Richard A. Mercer	T	Sybil Mae Gorby
G	Dennis R. Heintzman, et ux	U	OPEN
н	Elizabeth B. Trosch	V	James D. VanCamp, et al
11	BRC Appalachian Minerals I, LLC	W	BRC Appalachian Minerals I, LLC
J	James D. VanCamp, et al	X	James D. VanCamp, et ux
K	Waco Oil & Gas Comapny, Inc.	Y	Victor Herbert Boyd, II
L	James D. VanCamp, et al	Z	Sherry Lynn Chefren
M	Kerry Lemasters, et ux	AA	OPEN
N	James D. VanCamp, et al		



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1D	TM/Par	Owner	Bk/Pg	Acres
1	10-2	Patricia Ann Heintzman	W13/384	73.26
2	10-2	Patricia Ann Heintzman	150/15	48.50
3	10-64	John E Roberts	W30/108	
4	6-40	Alan D. Wyke	W40/195	42.20
5	9-13	Richard A. Mercer	321/197	16.00
6	6-36	Dennis & Clista Heintzman	297/640	417.60
7	6-41	Donald E. Forrester	125/421	20.05
8	6-39	Donald E. Forrester	242/39	30.00
g	6-35	Donald E. Forrester	343/381	25.75
10	6-34	John Stanley Starkey	39/200	6.11
11	6-35.1	Stephen & Andriea Knowlton	289/20	13.32
12	6-35.2	Stephen & Andriea Knowlton	224/77	29.02
13	6-35.3	Stephen & Andriea Knowlton	224/77	3.00
14	6-23.2	Larry R. Henthorn	584/138	1.27
15	6-23	Randall Dennis, et al	W70/660	42.30
16	6-16.2	Stephen J. & Andriea Knowlton	211/375	13.30
17	6-16	Kerry & Barbara Lemasters	215/548	33.76
18	6-23.1	Jeffery & Tarina Morris	346/47	1.06
19	6-16.7	Terry Andrew Jackson	388/271	1.23
20	6-16.1	James W. & Geneva Lancaster	443/639	3.44
21	6-16.6	Terry Andrew Jackson	388/271	0.25
22	6-16.8	James W. & Geneva Lancaster	443/639	0.55
23	6-22.1	Charles E. Dennis	348/160	1.25
24	6-22.3	Roger & Nadine Greathouse	334/770	2.61
25	6-22	Patricia Ann Greathouse	W38/671	
26	6-22.3	Lucinda J. Greathouse	350/674	
27	6-14	James D. VanCamp, et al	W38/144	
28	6-14	James D. VanCamp, et al	W38/144	
29	6-1	Sybil Gorby	175/265	17.26
30	5-1	James D. VanCamp, et al	W38/144	
31	2-11	Rosalie B. Henry	W35/616	_
32	3-44.4	Tylor D. Hostuttler	592/109	4.00
33	3-44.3	Wm J. & Melissa A. Buckhanan	299/515	1.88
34	3-44.3	Donna & Matthew Cecil	462/582	8.61
35	2-8.4	Jonathan & Mary Belle Pittman	186/170	21.14
36	2-0.4	Jonathan & Mary Belle Pittman	186/170	70.93
37	2-8.5	Stanley G. Pittman	327/751	3.68
38	2-8.3	Teresa A. Morris	343/390	1.82
39	2-8.2	Martha A. Pittman	345/745	1.26
40	5-63.2	Jesse D. King & Melinda A. King	343/812	33.97
41	2-8.1	Mary Belle & Jonathan Pittman	164/352	0.92
42	3-48	Linda Hoover	356/233	45.00
43	2-6.1	Mera Lynn & William Kunkel	369/064	
44	2-0.1	Linda L. Hoover	356/233	1.57
45		Donald E. Virden Jr.		0.41
46	2-1.2	Lou Ann & Donald E. Virden Jr.	421/281	_
40	2-6	Cindy L. & Charles T. White Jr.	421/281	3.42
48	2-5	Donald E. Virden, Jr.	309/25	9.52
48	2-1.1	Larry H. Kimble	421/281	68.20
-	2-4.2	Dawn M. & Howard F. Myers Jr.	W36/539	
50	2-3.1	John William & Rhonda L. Burton	328/701	1,58
51	2-2	Donald E. Virden, Jr.	380/341	7.20
52 53	2-1 5-64	Ridgetop Capital II, LP	421/281 382/399	30.84
		n processor capital if LP	383/300	

FILE NO: 82-54-E-19
DRAWING NO: Tygart Unit 1H BHL MOD
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WYDOT Harrisville WV

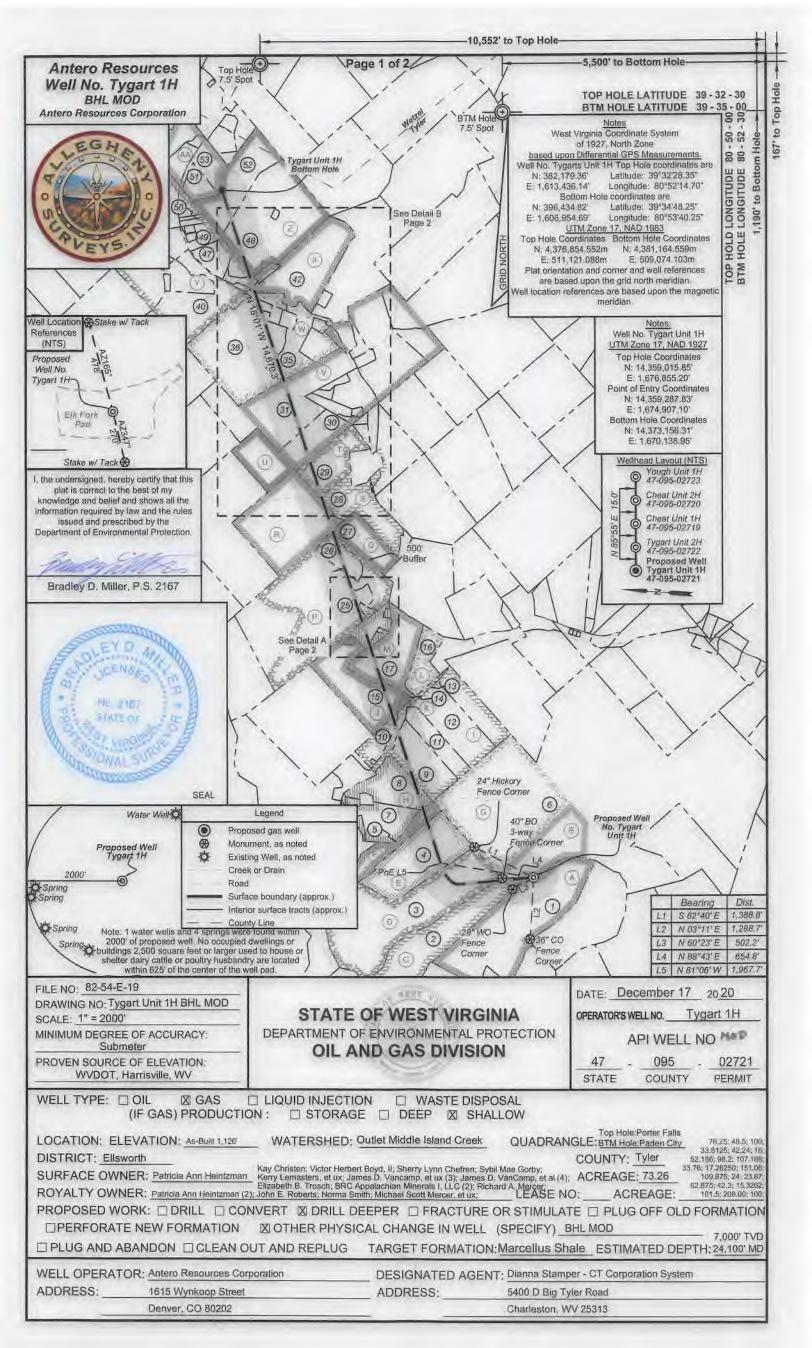
Denver, CO 80202

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

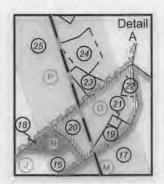
DATE: _	Dec	ember 17		20_20		
OPERATOR	R'S WE	ELL NO	Гуg	art 1H		
API WELL NO						
47	۵	095		02721		
STATE		COUNTY		PERMIT		

Charleston, WV 25313

VVVDOT, Harrisville, VVV	25 Par 1 4	STATE COUNTY PERMIT
WELL TYPE: ☐ OIL ☒ GAS ☐ (IF GAS) PRODUCTIO	□ LIQUID INJECTION □ WASTE DISPOSAL DN: □ STORAGE □ DEEP ☒ SHALLOW	
LOCATION: ELEVATION: As-Built 1,126' DISTRICT: Ellsworth SURFACE OWNER: Patricia Ann Heintzman ROYALTY OWNER: Patricia Ann Heintzman (2 PROPOSED WORK: DRILL CON DPERFORATE NEW FORMATION	Kay Christen; Victor Herbert Boyd, II; Sherry Lynn Chefren; Sybil Mae Gorby; Kerry Lemasters, et ux; James D. Vancamp, et ux (3); James D. VanCamp, et- Elizabeth B. Trosch; BRC Appalachian Minerals I, LLC (2); Richard A. Mercer; John E. Roberts; Norma Smith; Michael Scott Mercer, et ux; NVERT DRILL DEEPER FRACTURE OR STIMU	E NO:ACREAGE:
□ PLUG AND ABANDON □ CLEAN O		5 Shale ESTIMATED DEPTH: 24,100' MD
WELL OPERATOR: Antero Resources Corn ADDRESS: 1615 Wynkoop Street		Stamper - CT Corporation System



Antero Resources Well No. Tygart 1H BHL MOD Antero Resources Corporation



Page 2 of 2

Leases					
Α	Patricia Ann Heintzman	0	James D. VanCamp, et al		
В	Norma Smith	P	Kay Christen		
C	Patricia Ann Heintzman	Q	James D.VanCamp, et ux		
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F	Richard A. Mercer	T	Sybil Mae Gorby		
G	Dennis R. Heintzman, et ux	U	OPEN		
Н	Elizabeth B. Trosch	٧	James D. VanCamp, et al		
1	BRC Appalachian Minerals I, LLC	W	BRC Appalachian Minerals I, LLC		
J	James D. VanCamp, et al	X	James D. VanCamp, et ux:		
K	Waco Oil & Gas Comapny, Inc.	Y	Victor Herbert Boyd, II		
L	James D. VanCamp, et al	Z	Sherry Lynn Chefren		
M	Kerry Lemasters, et ux	AA	OPEN		
N	James D. VanCamp, et al				



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V	Detail B
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FILE NO: 82-54-E-19	

ID	TM/Par	Owner	Bk/Pg	Acres
1	10-2	Patricia Ann Heintzman	W13/384	73.26
2	10-1	Patricia Ann Heintzman	150/15	48.50
3	10-64	John E Roberts	W30/108	100.00
-4	6-40	Alan D. Wyke	W40/195	42.20
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6	6-36	Dennis & Clista Heintzman	297/640	417.60
7	6-41	Donald E. Forrester	125/421	20.05
8	6-39	Donald E. Forrester	242/39	30.00
9	6-35	Donald E. Forrester	343/381	25.75
10	6-34	John Stanley Starkey	39/200	6.11
11	6-35.1	Stephen & Andriea Knowlton	289/20	13.32
12	6-35.2	Stephen & Andriea Knowlton	224/77	29.02
13	6-35.3	Stephen & Andriea Knowlton	224/77	3.00
14	6-23.2	Larry R. Henthorn	584/138	1:27
15	6-23	Randall Dennis, et al	W70/660	42.30
16	6-16.2	Stephen J. & Andriea Knowlton	211/375	13.30
17	6-16	Kerry & Barbara Lemasters	215/548	33.76
18	6-23.1	Jeffery & Tarina Morris	346/47	1.06
19	6-16.7	Terry Andrew Jackson	388/271	1.23
20	6-16.1	James W. & Geneva Lancaster	443/639	3.44
21	6-16.6	Terry Andrew Jackson	388/271	0.25
22	6-16.8	James W. & Geneva Lancaster	443/639	0.55
23	6-22.1	Charles E. Dennis	348/160	1.25
24	6-22.3	Roger & Nadine Greathouse	334/770	2.61
25	6-22	Patricia Ann Greathouse	W38/671	169.90
26	6-22.3	Lucinda J. Greathouse	350/674	10.00
27	6-14	James D. VanCamp, et al	W38/144	24.00
28	6-3	James D. VanCamp, et al	W38/144	23.87
29	6-1	Sybil Gorby	175/265	17.26
30	5-1	James D. VanCamp, et al	W38/144	39.00
31	2-11	Rosalie B. Henry	W35/616	61.54
32	3-44.4	Tylor D. Hostuttler	592/109	4.00
33	3-44.3	Wm J. & Melissa A. Buckhanan	299/515	1.88
34	3-47	Donna & Matthew Cecil	462/582	8.61
35	2-8.4	Jonathan & Mary Belle Pittman	186/170	21.14
36	2-8	Jonathan & Mary Belle Pittman	186/170	70.93
37	2-8.5	Stanley G. Pittman	327/751	3.68
38	2-8.3	Teresa A. Morris	343/390	1.82
39	2-8.2	Martha A. Pittman	345/745	1.26
40	5-63.2	Jesse D. King & Melinda A. King	343/812	33.97
41	2-8.1	Mary Belle & Jonathan Pittman	164/352	0.92
42	3-48	Linda Hoover	356/233	45.00
43	2-6.1	Mera Lynn & William Kunkel	369/064	2.55
44	2-9	Linda L. Hoover	356/233	1.57
45	2-1.2	Donald E. Virden Jr.	421/281	0.41
46	2-6	Lou Ann & Donald E. Virden Jr.	421/281	3.42
47	2-5	Cindy L. & Charles T. White Jr.	309/25	9.52
48	2-1.1	Donald E. Virden, Jr.	421/281	68.20
49	2-4.2	Larry H. Kimble	W36/539	5.87
50	2-3.1	Dawn M. & Howard F. Myers Jr.	328/701	1.58
51	2-2	John William & Rhonda L. Burton	380/341	7.20
52	2-1	Donald E. Virden, Jr.	421/281	30.84
53	5-64	Ridgetop Capital II, LP	382/399	_
	3-04		5001300	00.00

FILE NO: 82-54-E-19 DRAWING NO: Tygart Unit 1H BHL MOD 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:	Decer	nber 1	7 2	0 20
OPERATO	OR'S WELL	NO	Tyga	art 1H
	API	WEL	LNC	Ha P
47		095	- 4	02721

Charleston, WV 25313

WVDOT, Harrisville, WV		200	S	TATE COUNTY	PERMIT
WELL TYPE: □ OIL ☒ GAS (IF GAS) PRODUCTI	□ LIQUID INJECTION □ DN: □ STORAGE □ I	☐ WASTE DISPOS DEEP ☒ SHALL			
LOCATION: ELEVATION: As-Built 1,126" DISTRICT: Ellsworth SURFACE OWNER: Patricia Ann Heintzman ROYALTY OWNER: Patricia Ann Heintzman (PROPOSED WORK: DRILL CO DEFENDATE NEW FORMATION	Elizabeth B. Trosch, BRC Appalachian 2); John E. Roberts; Norma Smith; Michae NVERT X DRILL DEEPER X OTHER PHYSICAL CH	Sherry Lynn Chefren; Sybil M camp, et ux (3); James D. V Minerals I, LLC (2); Richard I Scott Mercer, et ux: FRACTURE OI ANGE IN WELL (5	Mae Gorby; rancamp, et al (4); AC d A, MERGE; LEASE NO: R STIMULATE [SPECIFY] BHL M	REAGE: 73.26 ACREAGE: PLUG OFF OLD MOD	— 7,000' TVD
□ PLUG AND ABANDON □ CLEAN C	UT AND REPLUG TARG	ET FORMATION:	Marcellus Shale	ESTIMATED DEP	TH: 24,100' MD
WELL OPERATOR: Antero Resources Co	poration DES	IGNATED AGENT:	Dianna Stamper - 0	CT Corporation System	1
ADDRESS: 1615 Wynkoop Street	ADD	RESS:	5400 D Big Tyler R	oad	