

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.wy.gov

Wednesday, October 18, 2023 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for HOLTZ UNIT 1H

47-017-06962-00-00

Extended Lateral Length

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: HOLTZ UNIT 1H

Farm Name: ANTERO RESOURCES CORPORATION

U.S. WELL NUMBER: 47-017-06962-00-00

Horizontal 6A New Drill

Date Modification Issued: 10/18/2023

Promoting a healthy environment.

WW-6B (04/15)

API NO. 47-017	_
OPERATOR WELL NO. Holtz Unit 1H MOD	_
Well Pad Name: Genevieve Pad	

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

) Well Operator: A	ntero Resources Co	rporat 49	4507062	017-Doddrig	W. Uniog	West Union 7.5'
· -			perator ID	County	District	Quadrangle
2) Operator's Well N	ımber: Holtz Unit 1H	HOD	Well Pa	d Name: Gener	vieve Pad	
3) Farm Name/Surfac	e Owner: Antero Mid	Istream, LL	C Public Ros	nd Access: WV	Route 18	N
1) Elevation, current	ground: 886'	Elevat	ion, proposed	post-construction	on:	.
5) Well Type (a) G	as X	Oil	Und	erground Storag	ge	
Other						
(b)If	_		Deep			
A = 1.1 =	Horizontal X					
5) Existing Pad: Yes			1.000 : 1	-		
,	ormation(s), Depth(s) 00' TVD, Anticipated I	-		-		
3) Proposed Total Ve	rtical Depth: 7000'	TVD	_			
) Formation at Total	Vertical Depth: Ma	rcellus			<u> </u>	
10) Proposed Total M	leasured Depth: 189	900' MD				·
1) Proposed Horizon	ntal Leg Length: 949	95'	- .			
2) Approximate Free	sh Water Strata Depth	ns: 30	8', 521'			
13) Method to Determ	nine Fresh Water Dep	oths: 47-0	17-02319			
14) Approximate Salt	water Depths: 1468	'			·	
15) Approximate Coa	l Seam Depths: Non	e Identifie	d			
	th to Possible Void (None Anticipat	ted	
	ell location contain co adjacent to an active i		Yes	No	x	
(a) If Yes, provide I	Mine Info: Name:					RECEIVED
	Depth:			_	Offi	ce of Oil and Gas
	Seam:				<u> </u>	CT 1.6 2023
	Owner:					
						V Department or onmental Protection

WW-6B (04/15)

API NO. 47- 017 -

OPERATOR WELL NO. Holtz Unit 1H MOD
Well Pad Name: Genevieve 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	94#	100'	100'	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	571'	571'	CTS, 595 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#	18900'	18900'	CTS, 3835 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Times I. Legrold 10-13-23

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"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	RECEIVED Office of Oil and Gas
Sizes:	N/A	DCT 16 2023
Depths Set:	N/A	WV Department or

Environmental Protection

WW-6B (10/14) API NO. 47- 017 OPERATOR WELL NO. Holtz Unit 1H MOD
Well Pad Name: Genevieve Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:	
Drill, perforate, fracture a new vertical shallow well and complete 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 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.69 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/L cement.

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

Intermediate: Class A/L cement with 1/4 to of hake, 5 gallons of day theat

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 bbis 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.

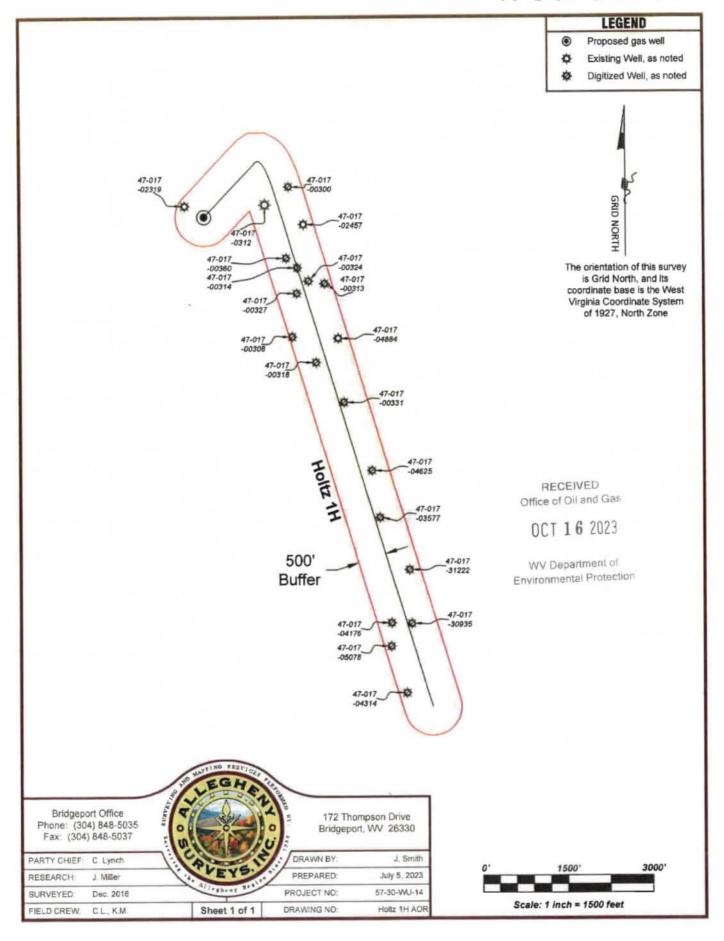
*Note: Attach additional sheets as needed.

RECEIVED
Office of Oil and Gas

Page 3 of 3

001 16 2023

10/20/2023

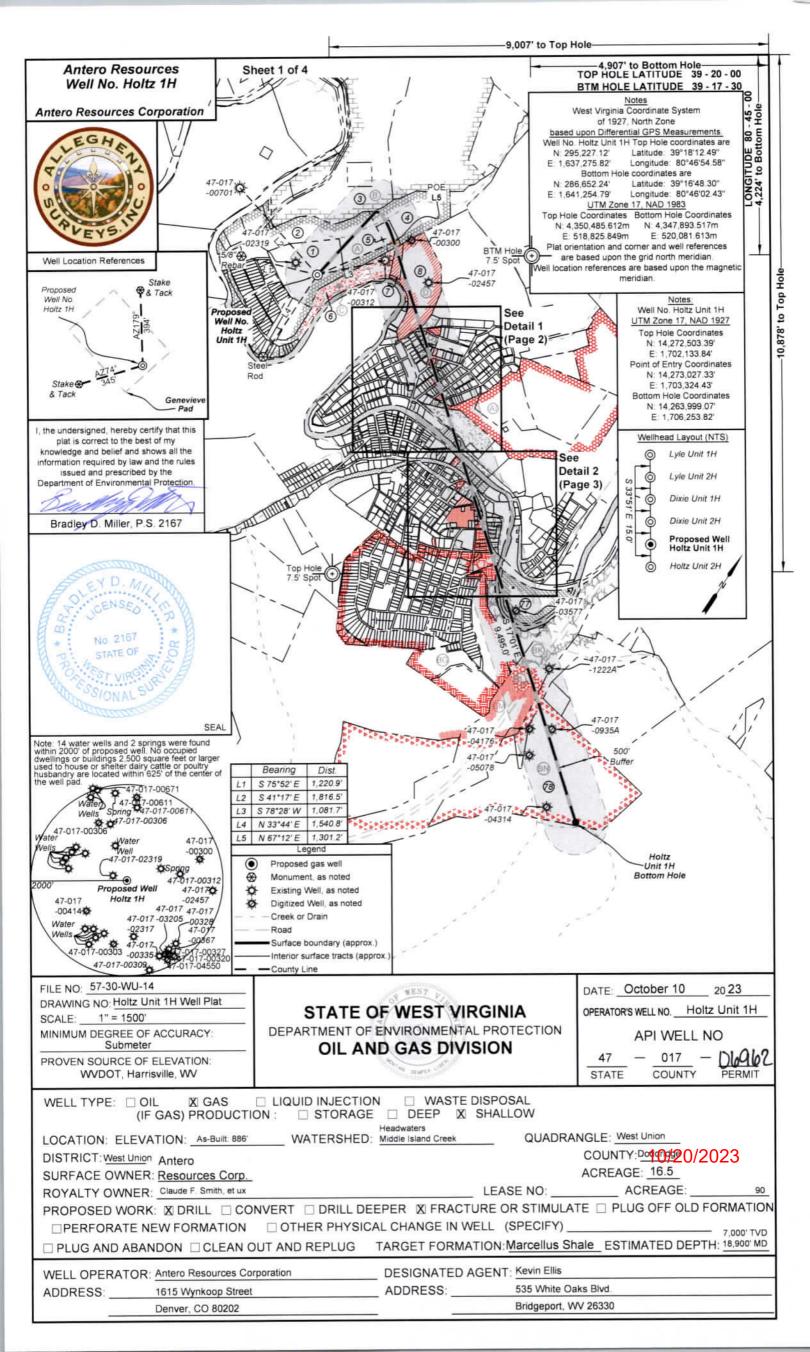


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2

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated interval (shallowest, deopest)	Perforated Formation(s)	Producible Formation(s) not perfd
	BETTY JANE LANGFITT	1	PILLAR ENERGY LLC	KEY CILLINC	5,241	5080 - 5146	Alexander	Warren, Speechly, Balltown, Riley, Benson
7017003120000	MARY H HOLLAND ET AL	1	ANIA RESOURCES	HAHOLCO	1.971		Maxion, Big Injun	Gordon, Rerea
7017003600000	REX UNDERWOOD	1	CHYT RSIFTED PRODUCE	WEISS GABRIEL D	1.867		Big krijun	Alexander, Berea
7017003140000	LULA LONGSTRETH	1	SPENCER HUGH K ET AL	SPENCER HUGH K ET AL	1.542		Rig froun	Gordon, Berea
7017003270000	EARL DOTSON	- 1	BINGHAM A M	ROBERTS & VEATER	1,871		Big friun	Gordon, Berea
7017003080000	BEULAH R SMITH	- 1	YOWER SERVICE	TOWER SERVICE	1,825		Big Injun	Alexander, Gordon, Berna
7017003180000	CHURCH OF CHRIST	1	TOWER SPRVICE	TOWER SERVICE	1,617		Martin, Keener, Blit Injun	Alexander, Sordon, Berea
7017041750000	FARR C TRUST	2	HARFER CROSSY HOLDING	RARE EARTH MINERALS	5,280	3067 - 5044	Big Injun	Alexander, Berea
7017050780000	CHEUVRONT/FARA	4	KEY OIL CO	KEY OIL CO	2,596	1776 - 2494	Massch, Statinjun, Stuaw, Gordon, Fifth	Alexander, Berea
7017043140000	FARR C TRUST	- 6	HARPER CROSSY HOLDING	RARE EARTH MINERALS	2,590	2240 - 2240	Gordon	Alexander, Berva
7017083000000	GLENN MAXON	1	SHERT & SLATTH	SIBERT & SMITH	1,930		Big Winn	Gordon, Serea
7017024570000	MAXSON	N33-1	HARPER CROSBY HOLDING	STALMAKER GENE INC	5.458		Alexander, Elk	Serea Serea
7017003240000	JAMES B HEFLIN	1	UNION DEILLING CO	UNION DRILLING CO	1.865		Marton, Sig Injun	Seres
7017003130000	GOLDIE F WALLACE ET AL	1	SPUREDCK H D	FUEL DORIS G	1.879		Big treum	Alexander, Berea
7017048840000	SHANNON	3	SPENCER ENTERPRISES	SPENCER ENTERPRISES	2,775	1926 - 2646	Big Injun, Gordon	Alexander, Berea
7017093310000	L & E HOSKINSON	1	GUM F B & ASSOC	GUM E B & ASSOC	1,813		Maxton, Siz Injun, Santz	Alexander, Berea
7017046250000	BEE MELISSA	1	KEY OIL CO	KEY OIL CO	5,117	3000 - 4976	Speechley, Riley, Benson, Alexander	ўства
7017035770000							A STATE OF THE PROPERTY OF THE PARTY OF THE	100.00
7017031220000	JOHNSTON CHARLES D	1	R & R OIL & GAS LLC	SCOTT JAMES F	5,448	2280 - 5305	Gordon, Benson	Alexander, Berea
7017709350000	LEWIS MAXWELL #-A	GW-65	COLUMBIAN CARBON CO	COLUMBIAN CARBON CO	1,690	***************************************	Big Injun, Gordon	Alexander, Berns

office of Oil and Gas

WV Department of Environmental Protection

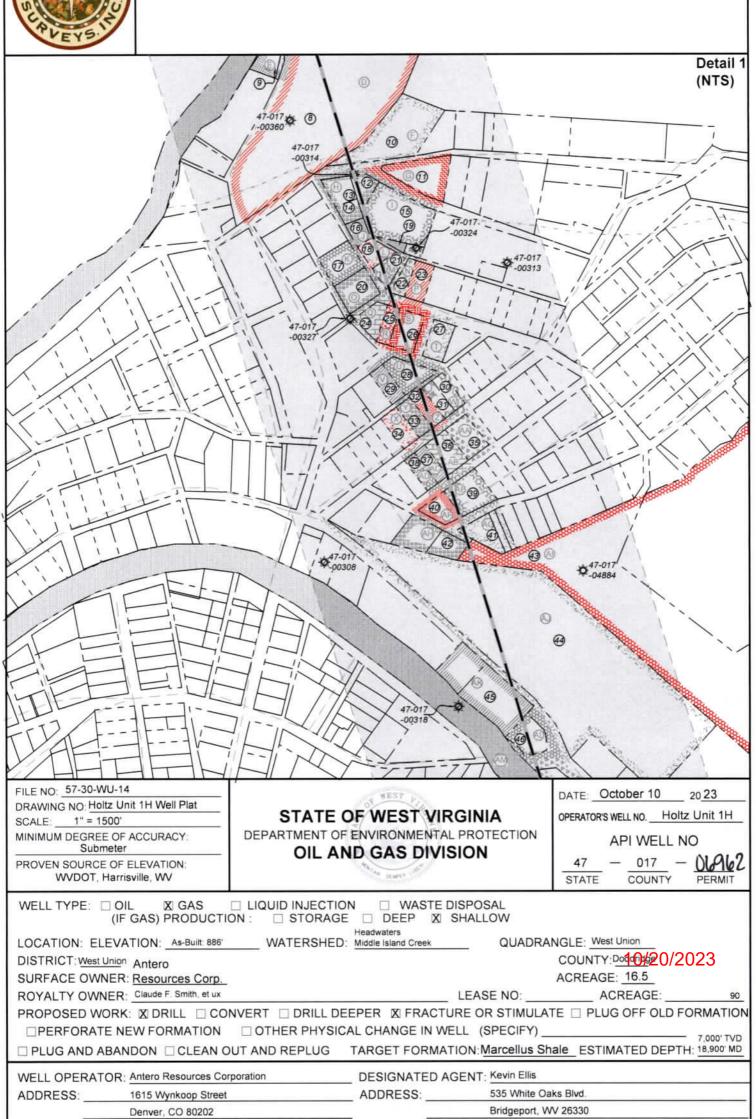


Antero Resources Well No. Holtz 1H

Sheet 2 of 4

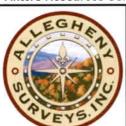
Antero Resources Corporation





Antero Resources Well No. Holtz 1H Sheet 3 of 4

Antero Resources Corporation



Detail 2 (NTS) 0 FILE NO: 57-30-WU-14 DATE: October 10 20 23 WES7 DRAWING NO: Holtz Unit 1H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Holtz Unit 1H SCALE: 1" = 1500' MINIMUM DEGREE OF ACCURACY: DEPARTMENT OF ENVIRONMENTAL PROTECTION API WELL NO Submeter OIL AND GAS DIVISION - <u>017</u> - D6962 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE COUNTY OIL 🛛 GAS 🗆 LIQUID INJECTION 🗆 WASTE DISPOSAL (IF GAS) PRODUCTION : 🗆 STORAGE 🗆 DEEP 🛣 SHALLOW WELL TYPE:

OIL WATERSHED: Middle Island Creek LOCATION: ELEVATION: As-Built: 886' QUADRANGLE: West Union COUNTY: Dod 10/20/2023 DISTRICT: West Union Antero SURFACE OWNER: Resources Corp. ACREAGE: 16.5 ROYALTY OWNER: Claude F. Smith, et ux ACREAGE: LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION □ PERFORATE NEW FORMATION □ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) __ □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,900' MD WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis ADDRESS: _ _ ADDRESS: 535 White Oaks Blvd. 1615 Wynkoop Street Bridgeport, WV 26330 Denver, CO 80202

Antero Resources Well No. Holtz 1H

Sheet 4 of 4

Antero Resources Corporation



	Leases
A	Claude F. Smith, et ux
В	G. Frank Ash, et al
C	Harriet M. Jarvis, et al
D	Lawrence G. Maxson
E	Fred Miracle
F	Charles E. Maxson
G	Harry Grant & Joellen I. Trent
Н	Evon K.Allen & George T. Ball
1	Patsy P. Zeigler
J	Alan D. Bunting
K	Nancy E. Dotson
L	Kendra L. Mascaro
M	Helen Moore
N	Carol N. Fox
0	Roy L.& Dora J.Porter
Р	Pooled Tract
Q	Araiza Revival Ministries, Inc.
R	Pooled Tract
S	Pooled Tract
Т	Angela Hope McClain Special Needs Trust
U	Joseph D. & Doris A. Pauley
V	James Edward Ross

	Leases
W	Carrie A. Booher Beaver
X	Theresa Louise Bright
Y	Bradford & Nancy Crouse
Z	Pooled Tract
AA	Colby W. & Stasha Jett
AB	Barry L.& Barbara J. Riffle
AC	Clinton D. Means, et ux
AD	Debra J. Boyce
AE	Jacqueline S. Bonnell
AF	Lya Burgess
AG	Jacqueline Burgess
AH	Joe E. & Melissa A. Cross
Al	Earnest Spence Shannon, et al.
AJ	Phillip D. McGill Jr.
AK	Mark A. McGill
AL	Frank E. McGill
AM	WVDNR
AN	Roy A. Myers
AO	Pooled Tract
AP	William Leo Tarbet
AQ	Doddridge Land Development Corp.
AR	L. Donald Cinci III

	Leases
AS	WV State Rail Authority
AT	Pooled Tract
AU	Lorraine L. Brisell
AV	Steven R. Chipps, et ux
AW	Richard G. Robinson Living Trust
AX	Velva B. Jacobs
AY	Pooled Tract
AZ	Jerry L. Six
BA	Velva B. Jacobs
BB	Pooled Tract
BC	June Reed
BD	Pooled Tract
BE	Denver & Linda Burnside
BF	Charles Jr. & Barbara L. Wellings
BG	Mary A. Stuart, et al.
ВН	Tamela B. & Robert Beamer
В	Pooled Tract
BJ	Timothy C. Phillips
BK	WV Department of Highways
BL	Michael W. McGuane
ВМ	Michael W. McGuane
BN	Joseph Cheuront & W.S. Stuart

ID	TM-Par	Owner	Bk/Pg	Acres
1	11-3	Antero Resources Corp.	431/528	16.50
2	11-4	Paul D. & Sharon K. Weekley	186/743	17.30
3	7-26	Barbara Jean Travis & Sharon K. Weekley	WB62/674	61.46
4	7-28	Barbara Jean Travis & Sharon K. Weekley	WB62/674	14.50
5	11-5	Barbara Jean Travis & Sharon K. Weekley	WB62/674	2.19
6	11-4.1	Mary Lou Holland	286/313	9.55
7	11-6.2	Charles E. Maxson	278/454	2.03
8	11-6	Charles E. Maxson	278/454	18.40
9	11-97	Fred Miracle	252/659	0.22
10	1-158	Charles E. Maxson	196/671	0.50
11	1-8.1	H. Grant & Joellen I. Trent	186/523	0.35
12	1-27	Evon Kathleen Allen & George Thomas Ball	257/187	0.12
13	1-22	Evon K. Allen	AP28/304	0.16
14	1-24	Evon K. Allen & George Thomas Ball	246/369	0.10
15	1-27.1	Patsy P. Zeigler	193/805	0.54
16	1-24.1	Ruthie Bunting	387/142	0.09
17	1-71	Marvin D. & Nancy Dotson	WB65/80	0.24
18	1-25	Ruthie Bunting	387/142	0.10
19	1-23	Ruthie Bunting	387/142	0.10
20	1-72	Roy Lee & Dora Jean Porter	295/317	0.25
21	1-26	Helen Moore	247/143	0.13
22	1-28	Carol N. Fox	257/176	0.10
23	1-29	Brian Keith McCloy	372/116	0.17
24	1-73	Webb & Son Holdings LLC	480/192	0.15
25	1-75	Joe D. & Doris A. Pauley	474/196	0.11
26	1-76	Joe D. & Doris A. Pauley	474/196	0.22
27	1-77	Angela Hope McClain Special Needs Trust	WB39/583	0.19
28	1-78	Joseph D. Pauley	287/001	0.25
29	1-79	James Edward Ross	273/680	0.14
30	1-88	Carrie A. Booher	303/176	0.11
31	1-86	Carrie A. Booher	303/176	0.11
32	1-84	Tabitha J. L. & Anthony R. Smith	284/704	0.14
33	1-82	Bradford & Nancy Crouse	171/459	0.14
34	1-81	Alice T. Rieke	AP29/38	0.17
35	1-85	Colby W. Jett & Stasha A. Moran	376/422	0.22
36	1-83	Berry L. & Barbara J. Riffle	311/109	0.22
37	1-129.1	Jesse Aaron Hileman	430/634	0.11
38	1-129	Debra J. Boyce	260/69	0.11
39	1-97	Jacqueline S. Bonnell	WB76/674	0.30

ID	TM-Par	Owner	Bk/Pg	Acres
40	1-130	William E. Thompson	511/186	0.17
41	1-132	Lya Burgess	AP57/201	0.24
42	1-131	Joe E. & Melissa A. Cross	223/684	0.15
43	11-23	Justin E. & Melissa Ann Holtz	342/354	23.77
44	1-151	Francis John Noll	288/86	3,75
45	3-62	Francis John Noll	288/86	0.43
46	3-62.1	Travis Auto Parts	190/743	0.11
47	3-311	Randall L. Bonnell & Loeta F. Riddle	455/145	1.43
48	3-98	Harvey S. Randolph	AP35/521	0.30
49	3-99	Delgreta Lee Tarbet	WB34/568	0.79
50	3-99.1	Edward Jett	253/355	0.16
51	3-100	Edward Jett	253/355	0.21
52	3-307	Edward Jett	253/355	0.35
53	3-158	Robert L. Holland	154/659	***
54	3-159	Lorraine L. Brisell	236/169	1.98
55	3-159.1	Lorraine L. Brisell	236/169	0.28
56	3-226	Steven R. Chipps & Nathaniel A. Hoskinson	389/117	0.60
57	4-58.1	Vance L. Underwood & Velva Blanch Jacobs	302/273	0.09
58	4-58	Velva B. Jacobs	373/375	0.12
59	4-60	Velva B. Jacobs	373/375	0.14
60	4-59	Velva B. Jacobs	373/375	0.07
61	4-64	Robert L Holland	163/143	2.50
62	4-62	Brian N. & Verose L. Mason	362/57	0.11
63	4-61	Velva B. Jacobs	278/457	0.09
64	4-66	Michael & Candice Gamache	262/724	0.28
65	4-63	June Reed, et al	AB50/239	0.06
66	4-67	Webb & Son Holdings LLC	427/719	0.17
67	4-66.1	Michael & Candice Gamache	262/724	0.60
68	4-67.1	Webb & Son Holdings LLC	427/719	0.17
69	4-72.1	Smith Family Revovable Living Trust	446/512	0.28
70	4-68	Charles & Barbara L. Wellings	295/88	0.21
71	4-71	Norma S. Bowyer	318/625	0.15
72	4-69	Robert L & Tamera B. Beamer	283/709	0.19
73	4-72	Smith Family Revovable Living Trust	446/512	0.53
74	4-70	Robert L & Tamera B. Beamer	283/709	0.14
75	4-91	James L. McAfee	WB55/71	0.50
76	11-72	James L. McAfee	WB55/71	12.58
77	11-77	Board of Education	94/229	10.26
78	15-4	E Properties LTD	201/396	115.0

FILE NO: 57-30-WU-14 DRAWING NO: Holtz Unit 1H Well Plat SCALE: ___ 1" = 1500' 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

WEST

DATE: _	October 1	0 20 23		
OPERATO	R'S WELL NO.	Holtz Unit 1H		
	API WE	ELL NO		
47	- 017	-06962		
STATE	cou			

WELL TYPE: □ OIL ☑ GAS □ LIQUID INJECTION □ WASTE DISPOSAL	
(IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW	
Headwaters	
LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADE	RANGLE: West Union
DISTRICT: West Union Antero	COUNTY: <u>№ 10</u> 120/2023
SURFACE OWNER: Resources Corp.	ACREAGE: 16.5
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO:	ACREAGE:90
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMUL	ATE 🗆 PLUG OFF OLD FORMATION
□ PERFORATE NEW FORMATION □ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)	7,000° TVD
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus	

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis ADDRESS: __ ____ ADDRESS: 535 White Oaks Blvd. 1615 Wynkoop Street

Bridgeport, WV 26330

Operator's Well Number

Holtz Unit 1H MOD

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 –

- 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:

Assignment 137/858 Rubin Resources Inc Petro Egge Energy LLC Assignment 230/656 Rubin Resources Inc Petro Egge Energy LLC Assignment 230/656 Rubin Resources Inc Petro Egge Energy LLC Statiol USA Onshore Properties Inc Assignment 230/656 Statiol USA Onshore Properties Inc EQT Production Company Assignment 420/356 Statiol USA Onshore Properties Inc EQT Production Company Assignment 420/3566 CHARRIES Assignment 385/268 CHARRIES Assignment 420/3566 CH	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Claude F. Snith Key Oil Company 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8 104/104 1/8	A: Claude F. Smith, et ux Lease			
Clay Oil Company Xoil, Drilling Partners LP Assignment 106/556 Coll Drilling Partners LP Assignment 146/649 CPUR Corporation Merge Wy 505 CPUR CORPORATI		Key Oil Company	1/8	104/704
COLD Drilling Partners LP COLD Drilling Partners LP COLD Drilling Partners LP COLD Corporation Assignment 146/649 CWY-050 CWENT Exploration in C Allegheny Interests in C Assignment 184/512 Merge WY-050 CWENT Exploration in C Allegheny Interests in C Assignment 184/512 Lubin Resources in C Petro Edge Energy LLC Statiol LSA Onshore Properties in C EDT Production Company Assignment 230/666 EAST COMPANY Assignment 230/666 EAST COMPANY Assignment 230/666 EAST COMPANY Assignment 238/528 EAST COMPANY Assignment 238/528 EAST COMPANY Assignment 238/528 EAST COMPANY Antero Resources Corporation Assignment 238/528 EAST COMPANY Assignment 238/528 EAST COMPANY Assignment 238/528 EAST COMPANY Assignment 238/528 EAST COMPANY EAST COMPANY Assignment 238/528 EAST COMPANY EAST COMPANY Assignment 238/528 EAST COMPANY EAST COMPA			Assignment	105/566
PLOR Corporation Venus Exploration Merge WY 505	[19] [2] [12] [12] [12] [12] [12] [12] [12]		Assignment	146/649
Interest		the same and the s		WV SOS
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P. Propled Track	Araiza Revival Ministries, Inc.	Antero Resources Corporation		
OCT 16 2023	R: Pooled Tract		OCT	1 6 2022

WV Det 0/20/2023 Environmental Protection Operator's Well Number

Holtz Unit 1H MOD

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 –

- 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
S. Pooled Tract			
U: Joseph D. & Doris A. Pauley Lease Joseph D. Pauley & Doris Ann Pauley	Antero Resources Corporation	1/8+	515/677
Z: Pooled Tract			
Y: Bradford & Nancy Crouse Lease: Bradford and Nancy Crouse	Antero Resources Corporation	1/8+	511/299
AB: Barry L. & Barbara J. Riffle Lease: Barry L. & Barbara J. Riffle	Antero Resources Corporation	1/8+	504/324
AC: Clinton D. Means, et ux Lease: Clinton D. Means, et ux	Antero Resources Corporation	1/8+	500/190
AE: Jacqueline S. Bonnell Lease, Jacqueline S. Bonnell	Antero Resources Corporation	1/82	504/294
AF: Lya Burgess Lease: Lya Burgess	Antero Resources Corporation	1/8+	500/221
AG: Jacqueline Burgess Lease: Jacqueline Burgess	Antero Resources Corporation	1/8+	456/161
AH: Joe E. & Melissa A. Cross Lease: Joe E. and Melissa A. Cross	Antero Resources Corporation	1/8+	511/253
Al: Earnest Spence Shannon, et al Lease Earnest Spence Shannon, et al Ouncan Sartan O. Lee Jones	Duncan Sartan D. Lee Jones Bayard Thurman Cowper III, and Roscoe B. G.	Assignment Assignment	75/285 74/467 98/111
Bayard Thurman Cowper III, and Roscoe B. G.	Cowper Cowcence H. Abress	Assignment	98/120
Lowper Lawrence H. Abr <mark>ege</mark> Hugh K. Spencer	High X. Spencer honald B Spencer and Rhonda S Rossetti as co trustees of the High X. Spencer Marital B Trust Spencer Enterprises. LL.	Assignment Will Book	887235 83768
Ronald B Spencer and Rhonda's Rossetti as co trustees of the Hugh K. Spencer Mailtal B Trust Spencer Enterprises, LLC Antero Resources Appalachian Corporation	Antero Resources Appalaction Corporation Antero Resources Corporation	Assignment Merger	764/99 46/523
AJ: Phillip D. McGill Jr. Lease Phillip D. McGill	Antero Resources Corporation	1/8+	473/550
AK: Mark A. McGill Lease Mark A. McGill	Antero Resources Corporation	1/8+ Office o	CEIVED FOIL and Gas 515/186
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Operator's Well Number

Holtz Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Pag
AL: Frank E. McGill Lease: Frank E. McGill	Antero Resources Corporation	1/8+	480/131
Talk E. McGii	America desperador	34.50	
AN: Roy A. Myers Lease		1/8+	515/308
Roy A. Myers	Antero Resources Corporation	1/8+	313/300
AM: WVDNR Lease		-4	
WVDNR	Antero Resources Corporation	1/8+	517/553
AP: William Leo Tarbet Lease			w 20
William Leo Tarbet	Antero Resources Corporation	1/8+	468/263
AQ: Doddridge Land Development Corporation			
Lease			T/ZNO/ZNAMANO/M
Doddridge Land Development Corporation	Antero Resources Corporation	1/8+	519/579
AS: WV State Rail Authority Lease			
West Virginia State Rail Authority	Antero Resources Appalachian Corporation	1/8	253/409
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
AU: Lorraine L. Brisell Lease			
Lorraine L. Brisell	Antero Resources Corporation	1/8+	512/154
AV. Steven R. Chipps, et ux Lease:		_	
Steven R. Chipps, et ux	Antero Resources Corporation	1/8+	519/669
AW: Richard G. Robinson Living Trust Lease:			
Richard G. Robinson Living Trust	Antero Resources Corporation	1/8+	481/304
AY Pooled Tract			
AX: Velva B. Jacobs Lease			
Velva B. Jacobs	Antero Resources Corporation	1/8+	511/304
AZ: Jerry L. Six Lease			?
Jerry L. Six	Antero Resources Corporation	1/8+	511/372
BB: Pooled Tract			
AY. Pooled Trast			
BD: Pooled Tract		RECEIVED	
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
BG: Mary A, Stuart, et al Lease; Mary A, Stuart, et al Lease; Mary A, Stuart, et al Lease; Lewis Maxwell Southern Carbon Company Empire: Oil Company Catolyn E, Farr, P. D. Farr, & William E Farr, directors Carolyn E, Farr, Trust Antero Resources Appalachian Corporation	Lewis Maxwell Southern Carbon Company Empire Oil Company Carolyn E. Farr, P. D. Farr, & William E. Farr, directors Carolyn E. Farr Trust Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Assignment Company Incorporated Trust Created Assignment Name Change	19/214 147391 356/361 216/162 270/233 271/541 46/523
AS: WV State Rail Authority Lease: West Virginia State Rail Authority Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	253/409 46/523
86: Mary A. Stuart, et al Leaso Mary A. Stuart, et al Lewis Maxwell Southern Carbon Company Empire Oil Company	Lewis Maxwell Southern Carbon Company Empire Dil Company Carolyn E. Farr, P.D. Farr, & William E.Farr, directors	Assignment Assignment Eompany Decreased	19/214 34/591 356/361 216/162
Carolyn E. Farr, P.D.Farr, & William E.Farr, directors Carolyn E.Farr Trust Antero Resources Appalachian Corporation	Carolyn E Fair Trust Antero Resources Appalachian Corporation Antero Resources Corporation	Post Created Assignment Name Change	220/283 271/5-41 46/523
Bi: Pooled Tract			
SG: Mary A. Stuart, et al Lease. Wary A. Stuart, et al Lewis Maxwell Southarn Carbon Company Empire-Oir Company	Lewis Maxwell Southern Carbon Company Empire Oil Company Carolyn E. Pair, P.D. Farr, & William E. Farr, directors	178 Assignment Assignment Company	19/214 34/391 350/361 116/162
Carolyn E Farr, P D Fatr, & William E Fatr, directors Carolyn E Fair Tross Antero Resources Appalachian Corporation	Carolyn & Fair Trus Antero Resources Appalachian Corporation Antero Resources Corporation	Trust Created Assignment Name Change	2707233 2717541 46/523
AM: WVDNR Lease WVDNR	Antero Resources Corporation	1/8+	517/553
BJ: Timothy C. Phillips Lease: Timothy C. Phillips	Antero Resources Corporation	1/8+	488/365
BK: WV Department of Highways Lease WV Department of Highways	Antero Resources Corporation	1/8+	RECEIVED 521/1 Office of Oil and Gas
81: Michael W. McGuane Lease Michael W. McGuane	Antero Resources Corporation	1/8	OCT 16 2023 485/61

WW-6A1

Operator's Well Number

Holtz Unit 1H MOD

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
BM: Michael W. McGuane Lease:	Autora Baronicas Composition	_	NAME OF TAXABLE PARTY.

*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.

*Cotenancy Utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

**Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract

RECEIVED
Office of Oil and Gas

OCT 16 2023

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

Operator's Well No. Holtz Unit 11	MOD
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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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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
BN: Jeseph Cheuront & W.S. Stuart L.				
	Joseph Cheuront & W.S. Stuart	Lewis Maxwell	1/8	19/216
	Lewis Maxwell	Southern Carbon Company	Assignment	24/477
	Southern Carbon Company	Empire Oil Company, John M. Gribble	Assignment	24/277
	Empire Oil Company, John M. Gribble	WD Gribble	Death	3/067
	WD Gribble	Carolyn E. Farr	Death	4/256
	Carolyn E. Farr	Clarence E. Sigley, Trustee, Carolyn E. Farr Trust	Assignment	220/233
	Charence E. Sigley, Trustee, Carolyn E. Farr Trust	Tri County Oil & Gas Inc	Assignment	198/670
	Tri County Oil & Gas Inc	May Gas Inc	Assignment	204/43
	May Gas Inc	Harper Crosby Holdings LLC	Assignment	309/238
	Harper Crosby Holdings LLC	Piney Holdings Inc	Assignment	309/275
	Piney Holdings Inc	Antere Resources Corporation	Assignment	400/655

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

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

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

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

Well Operator:	Antero Resources Corporation
By:	Tim Rady
Its:	Senior Vice President of Land

Page 1 of 1