

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, May 13, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit Modification Approval for BALDY UNIT 1H

47-103-03478-00-00

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.

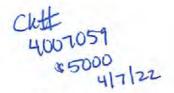
Operator's Well Number: BALDY UNIT 1H

Farm Name: MARGARET LANCASTER

U.S. WELL NUMBER: 47-103-03478-00-00

Horizontal 6A New Drill Date Modification Issued: 05/13/2022

Promoting a healthy environment.



47 1 0 3 0 3 4 7 8

OPERATOR WELL NO. Baldy Unit 1H MOD
Well Pad Name: Red Lady Pad

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

1) Well Operator: Antero Res	sources Corporal	494507062	103-Wetzel	Green	Porter Falls 7.5'
W. W. Charles and Language (S		Operator ID	County	District	Quadrangle
2) Operator's Well Number: B	aldy Unit 1H MOD	Well Pa	d Name: Red	Lady Pad	
3) Farm Name/Surface Owner:	Margaret Lancas	ster Public Ro	ad Access: We	tzel Tyler	Ridge Rd
4) Elevation, current ground: 5) Well Type (a) Gas X Other	1237' El	evation, proposed Und	post-constructi		6'
	allow X	Deep			
Но	orizontal X				
6) Existing Pad: Yes or No Yes	es		_		
 Proposed Target Formation(Marcellus Shale: 7400' TVD, 					
8) Proposed Total Vertical Dep	th: 7400' TVD	-1			
9) Formation at Total Vertical I	Depth: Marcellus				
10) Proposed Total Measured I	Depth: 27,900'				
11) Proposed Horizontal Leg L	ength: 19,593.4	1			
12) Approximate Fresh Water S	Strata Depths:	33', 283', 831'	/		
13) Method to Determine Fresh	Water Depths:	95-02177, 095-02104 Offse	et well records. Depths ha	ave been adjuste	ed according to surface elevation
14) Approximate Saltwater Dep	oths: 1592'				
15) Approximate Coal Seam D	epths: 851'				
16) Approximate Depth to Poss	sible Void (coal mi	ine, karst, other):	None Anticipa	ited	
17) Does Proposed well location directly overlying or adjacent to		ms Yes	No	, <u>x</u>	
(a) If Yes, provide Mine Info:	Name:				
200 100 100 100 100 100 100 100 100 100	Depth:				RECEIVED
	Seam:				ice of Oil and Gas
	Owner:			P	APR 2 2 2022
				Envir	V Department of ronmental Protection

WW-6B (04/15) API NO. 47-_103 OPERATOR WELL NO. Baldy Unit 1H MOD
Well Pad Name: Red Lady 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#	881'	881' /	CTS, 557 Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500' /	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	27,900'	27,900' /	CTS, 6113 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Temnel & Shapolds 5-6.22

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	BECENTED
Sizes:	N/A	Office of Oil & Gas
Depths Set:	N/A	WV Department of

Environmental Protection

4710303478

WW-6B (10/14)

OPERATOR WELL NO. Baldy Unit 1H MOD

Well Pad Name: Red Lady 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): 51.15 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.42 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

RECEIVED Office of Oil and Gas

WV Department of **Environmental Protection**

25) Proposed borehole conditioning procedures:

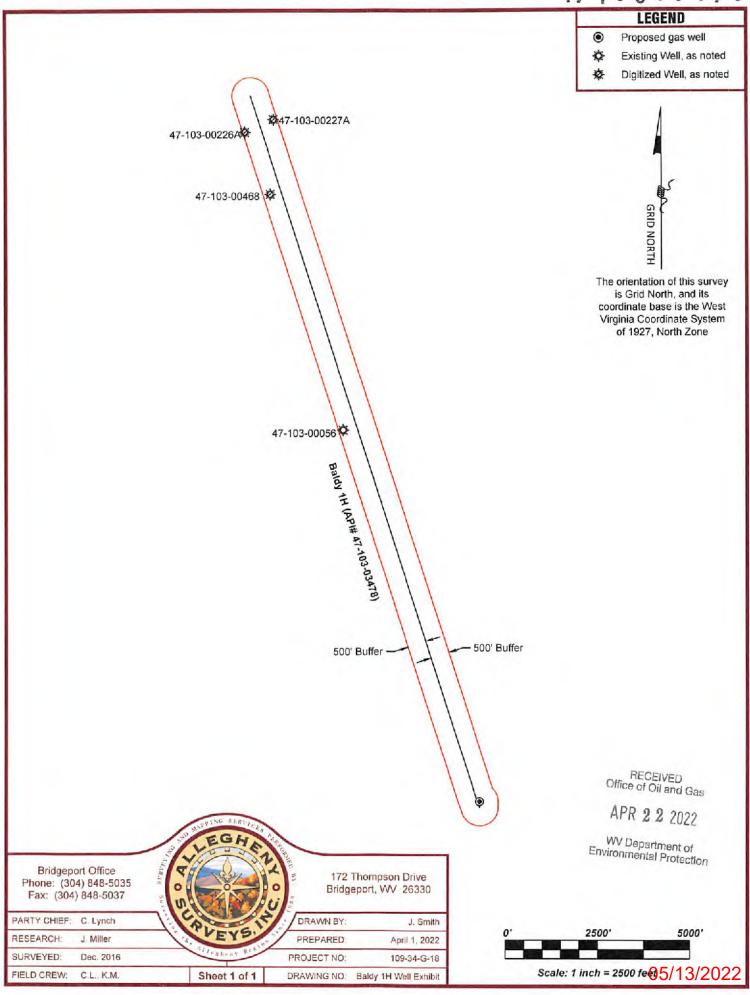
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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.



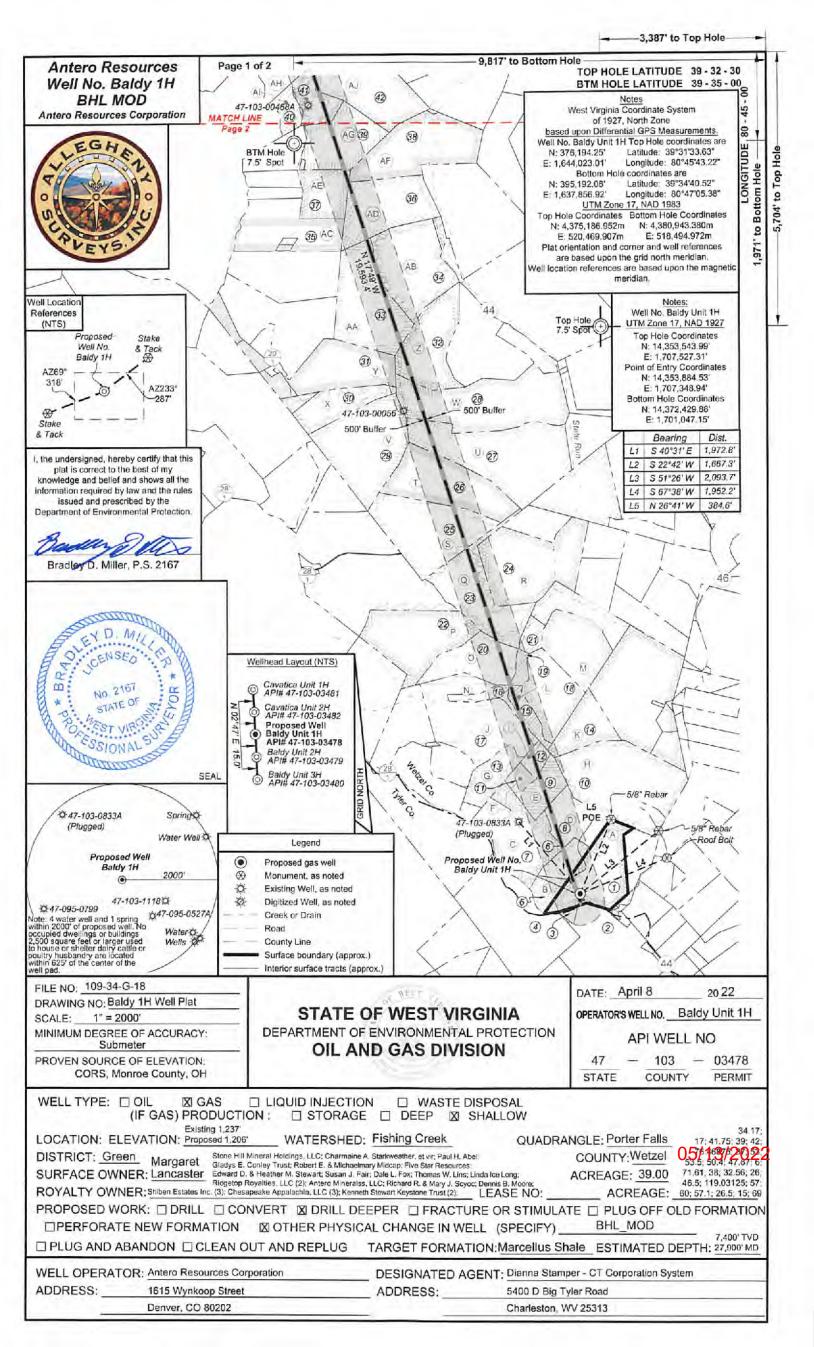
47-103-03478

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103000560000	DAVE AMOS	1			1,932		Big Injun	Weir, Berea, Benson, Alexander
47103004680000	MIDCAP	1		ELSON	2,410		Big Injun	Weir, Berea, Benson, Alexander
47103302260000	J B WHITEMAN	1	DAUBENSPECK & MASON	DAUBENSPECK & MASON	2,220			
47103302270000	J B WHITEMAN	2	DAUBENSPECK & MASON	DAUBENSPECK & MASON	2,343			

RECEIVED
Office of Oil and Gas

MAY 13 2022

WV Department of Environmental Protection

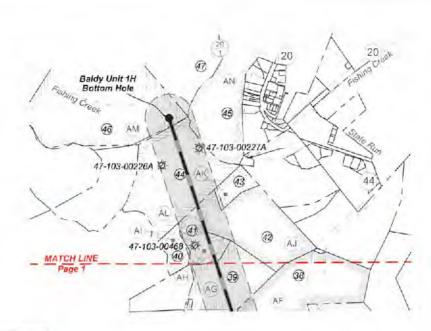


Antero Resources Well No. Baldy 1H BHL MOD

Antero Resources Corporation



Page 2 of 2



ID	TM-Par	Owner	Bk/Pg	Acres
1	19-31	Margaret Lancaster	333 / 440	39.00
2	12-27	Crystal A. Muzzy (Tyler Co.)	W69 / 226	60.91
3	-	Garrett Cemetery	85 / 62	1.80
4	12-25	Cecil & Margaret Lancaster	170 / 48	78.17
5	19-52	Joshua Highley	464 / 208	8.01
6	19-30	Richard R. & Mary J. Scyoc	452 / 177	13.00
7	19-21	Joshua Highley	464 / 208	41.75
8	19-23	Richard R. & Mary J. Scyoc	452 / 177	25.00
9	19-15	Joshua Highley	464 / 208	17.00
10	19-16	Richard R. & Mary J. Scyoc	443 / 336	73.96
11	19-13	Joshua Highley	464 / 208	5.00
12	19-14	Joshua Highley	419 / 822	6.00
13	19-12	Joshua Highley	464 / 208	17.17
14	19-22	John Sheldon Condit	309 / 312	24.25
15	19-5	Grega Wels	297 / 608	6.50
16	16-75	Gregg John Weis	317 / 157	7.50
17	19-54	Susan J. Fair	378 / 97	59.75
18	16-59.1	Mark Goldstein	435 / 308	25.00
19	16-73	Gregg Weis	294 / 477	5.00
20	16-53	Edward D. & Heather M. Stewart	390 / 10	32.60
21	16-74	Mark I. Goldstein	431 / 532	6.00
22	16-52	RBMA, LLC	431 / 526	43.25
23	16-44	Kenneth E. Stewart Keystone Trust	424 / 821	46.30
24	16-37	Garrett S. Estate	316 / 248	61.00
25	16-36	Kenneth E. Stewart Keystone Trust	424 / 821	53.00
26	16-29	Kenneth E. Stewart Keystone Trust	424 / 821	53.50
27	16-20	Bonita Andrich, et al	W70 / 243	79.03
28	16-8	Wilber B. Dawson & Loretta P. Ueltschey	408 / 192	75.75
29	16-19	Eugene D., Jr. & Diane Mason	405 / 291	64.70
30	16-18	Cathy A. & Ernest E. Stewart	355 / 280	28.50
31	16-7	Wilbur B, Dawson & Loretta P. Ueltschey	408 / 192	54.50
32	16-2	Wilbur B. Dawson & Loretta P. Ueltschey	408 / 192	44.50
33	12-53	Robert E. Midcap	399 / 40	57.00
34	12-54	Jerri L. & Donald H. Satterfield, Jr.	399 / 108	54.72
35	12-45	Roger Dale Midcap	399 / 37	46.00
36	12-48	John W. & Rosalie M. Ueltschey	362 / 403	47.87
37	12-47	Linda K. Ice	447 / 793	26.25
38	12-39	Martin E. Rodgers	421 / 621	60.00
39	12-38	Roger D. & Tina S. Midcap	342/74	37.00
40	12-24	Jerome E. Staley	242 / 72	10.00
41	12-25	Jerome E. Staley	242 / 72	15.00
42	12-25	Martin E. Rodgers	419 / 493	50.40
43	12-26.1	Phillip Wiley	361 / 471	8.25
44	12-20.1	Charmaine A, & Heath C, Starkweather	427 / 930	69.00
45	7-50	Bradley W. & Kimberly Ueltschey	342 / 710	79.78
46	12-1	Bradley W. & Killberry Genschey	476 / 310	78.13
40	7-38	Marikay G. Corliss	447 / 763	144.0

	Leases
A	Shiben Eslates, Inc.
В	Randy Bradley
C	Shiben Estates, Inc.
D	Richard R. & Mary J. Scyoc
E	Shiben Estates, Inc.
F	Shiben Estates, Inc.
G	Allen Vincent Wilcox
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1	Antero Minerals, LLC
J	Susan J. Fair
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L	Dale L. Fox
M	Joyce E. Henry
N	Antero Minerals, LLC
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R	Harry I. Elson
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Υ	Shiben Estates, Inc.
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AA	Robert E. & Michaelmary Midcap
AB	Five Star Resources
AC	Barbara Anne Amos King
AD	Ridgetop Royalties, LLC
AE	Linda Ice Long
AF	Paul H. Abel
AG	Chesapeake Appalachia, LLC
AH	Dennis B. Moore
Al	Jerome E. Staley
AJ	Ridgetop Royalties, LLC
AK	Phillip W. Wiley
AL	Charmaine A. Sterkweather, et via
AM	Stone Hill Minerals Holdings, LLC
AN	Bradley W. Ueltschy, et ux

FILE NO: 109-34-G-18

DRAWING NO: Baldy 1H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

CORS, Monroe County, OH

1615 Wynkoop Street

Denver, CO 80202

ADDRESS:

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

DATE: _April 8 ______ 20 22

OPERATOR'S WELL NO. ______ Baldy Unit 1H

API WELL NO

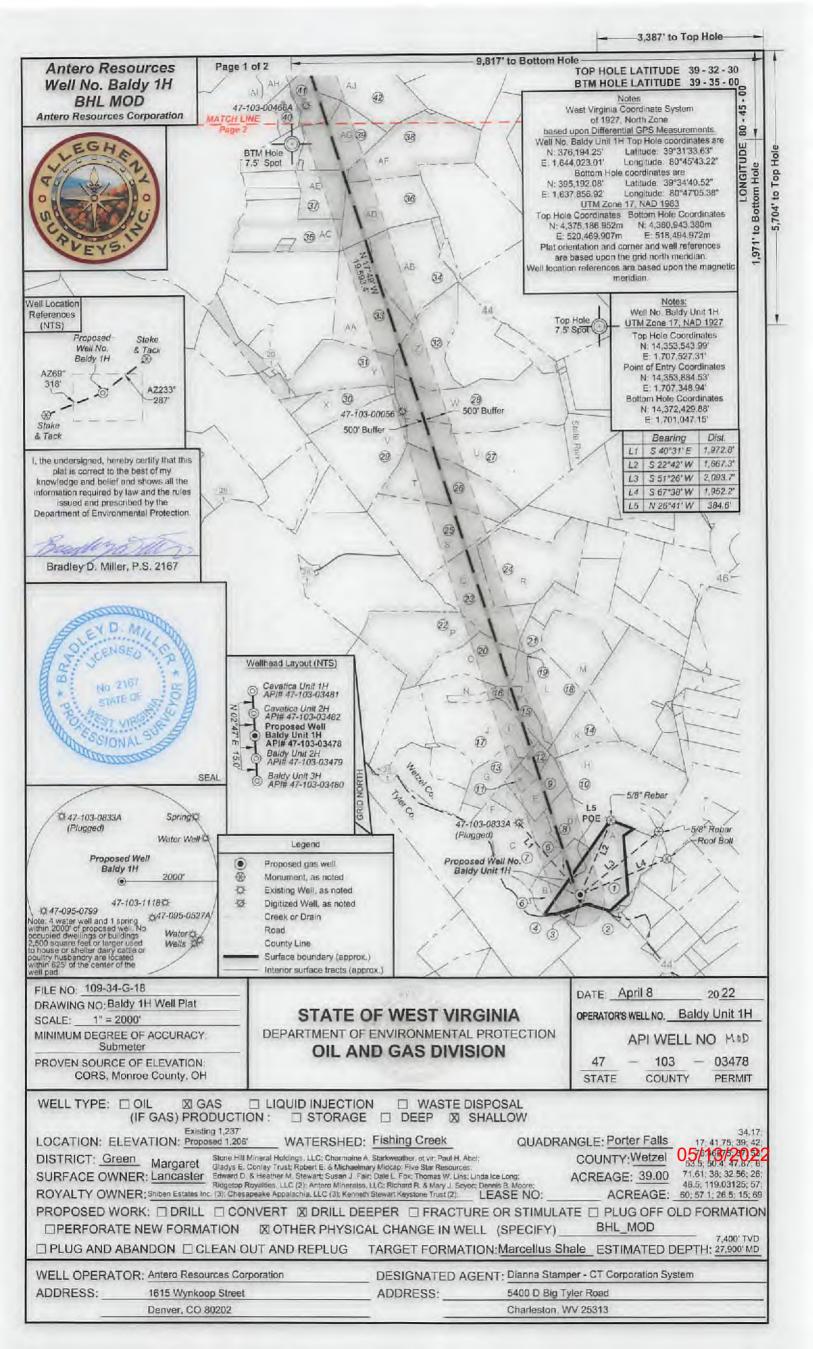
_______ 47 ______ 103 ______ 03478
______ STATE ______ COUNTY ______ PERMIT

WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW	
LOCATION: ELEVATION: Proposed 1,206 WATERSHED: Fishing Creek QUADRANGLE: Porter Falls 17; 41 75; 3	34.17; 39; 42;
DISTRICT: Green Margaret Margaret Margaret Stone Hill Mineral Holdings, LLC; Charmaine A. Starkweather, et vir. Paul H. Abel; Gladys E. Conley Trust; Robert E. & Michaelmary Midean; Five Star Resources; COUNTY: Wetzel COUNTY: Wetzel	
SURFACE OWNER: Lancaster Edward D. & Heather M. Stewart; Susan J. Falir; Dale L. Fox; Thomas W. Lins; Linda Ice Long: ACREAGE: 39.00 71.61; 38; 32.5 46.5; 119.0312	
ROYALTY OWNER: Shiber Estates Inc. (3); Chesapeake Appalachia, LLC (3); Kenneth Stewart Keystone Trust (2): LEASE NO: ACREAGE: _60; 57.1; 26.5;	
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☑ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMA	TION
□PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL_MOD 7,400	'TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,900	
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System	

ADDRESS:

5400 D Big Tyler Road

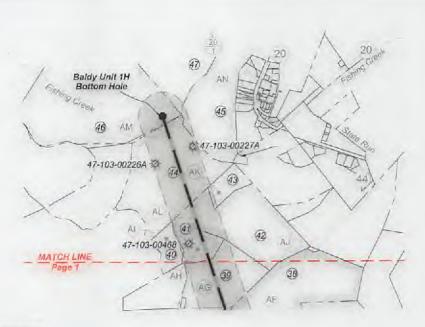
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AD	Ridgetop Royalties, LLC					
AE	Linda Ice Long					
AF	Paul H. Abel					
AG	Chesapeake Appalachia, LLC					
AH	Dennis B. Moore					
AL	Jerome E. Staley					
AJ	Ridgetop Royalties, LLC					
AK	Phillip W. Wiley					
AL	Charmaine A. Starkweather, et vii					
AM	Stone Hill Minerals Holdings, LLC					
AN	Bradley W. Ueltschy, et ux					

FILE NO: 109-34-G-18 DRAWING NO: Baldy 1H Well Plat 1" = 2000" SCALE: MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

Denver, CO 80202

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

DATE: _	April 8	20_22		
OPERATO	R'S WELL NO.	Baldy Unit 1H		
	API WE	ELL NO MOD		
47	- 103	3 - 03478		
STATE	COU	NTY PERMIT		

Charleston, WV 25313

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION: ☐ STORAGE	□ WASTE DISPOS	
LOCATION: ELEVATION: Proposed 1,206' WATERSHED:	Fishing Creek	QUADRANGLE: Porter Falls 17: 41.75: 39: 42:
DISTRICT: Green Margaret Stone Hill Mineral Holdings, LLC: Charmaine A. Gladys E. Conley Trust: Robert E. & Michaelmar		COUNTY: Wetzel 05/13/2022
SURFACE OWNER: Lancaster Edward D. & Heather M. Stewart: Susan J. Fair:	Dale L. Fox; Thomas W. Lins; Linda Ice L	ong: ACREAGE: 39.00 71.61; 38; 32.56; 26;
Ridgetop Royalties, LLC (2); Antero Mineralss, L ROYALTY OWNER: Shiben Estates Inc. (3); Chesapeake Appalachia, LLC (3); Kenneth		3. Moore; 46.5; 119.03125; 57; BE NO: ACREAGE: 60: 57.1; 26.5; 15: 69
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEE	PER FRACTURE OF	R STIMULATE PLUG OFF OLD FORMATION
□PERFORATE NEW FORMATION ☑ OTHER PHYSICA	L CHANGE IN WELL (S	SPECIFY) BHL_MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION:	17,400 TVD Arcellus Shale ESTIMATED DEPTH: 27,900 MD
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AGENT:	Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler Road

Baldy 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 –

- (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
A: Shiben Estates LLC Lease			
Shiben Estates LLC	Antero Resources Corporation	1/8+	255A/0681
B: Randy Bradley Lease			oughte.
Randy Bradley	Antero Resources Appalachian Corporation	1/8+	136A/0758
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0121/0008
C: Shiben Estates LLC Lease			
Shiben Estates LLC	Antero Resources Corporation	1/8+	265A/0235
D: Richard R. & Mary J. Scyoc Lease			
Richard R. Scyoc & Mary J. Scyoc	Antero Resources Corporation	1/8+	179A/0613
E: Shiben Estates LLC Lease			
Shiben Estates LLC	Antero Resources Corporation	1/8+	265A/0251
l: Antero Minerals, LLC Lease			
Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/783
J: Susan J. Fair Lease			
Susan J. Fair	Antero Resources Corporation	1/8+	282A/0413
L: Dale L. Fox Lease			
Dale L. Fox	Antero Resources Corporation	1/8+	247A/0225
O: Edward D. & Heather M. Stewart Lease			
Edward D. Stewart and Heather M. Stewart	Antero Resources Corporation	1/8+	229A/0884
Q: Thomas W. Lins Lease			
Thomas W. Lins	Antero Resources Corporation	1/8+	240A/0639
S: Kenneth Stewart Keystone Trust Lease			
Kenneth E. Stewart Keystone Trust Agreement	Antero Resources Corporation	1/8+	135A/0042
dated 3/7/11	The state of the s		COST LUZURA
T: Kenneth Stewart Keystone Trust Lease			
Kenneth E. Stewart Keystone Trust Agreement dated 3/7/11	Antero Resources Corporation	1/8+	236A/0463
U: Gladys E. Conley Trust Lease			
Gladys E. Conley Trust	Antero Resources Corporation	1/8+ RECEIVED Office of Oil and Gas	251A/0794

*CONTINUED ON NEXT PAGE

APR 2 2 202005/13/2022

Operator's Well Number

Baldy 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 –

- (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
W: Chesapeake Appalachia, LLC Lease			
Chesapeake Appalachia LLC	SWN Production Company	1/8	157A/0640
SWN Production Company	Antero Exchange Properties LLC	Assignment	177A/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Name Change	0013/0311
Z: Chesapeake Appalachia, LLC Lease			
Chesapeake Appalachia LLC	SWN Production Company	1/8	157A/0640
SWN Production Company	Antero Exchange Properties LLC	Assignment	177A/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Name Change	0013/0311
AA: Robert E. & Michaelmary Midcap Lease			
Robert E. Midcap and Mchaelmary Midcap	Antero Resources Corporation	1/8+	260A/0267
AB: Five Star Resources Lease			
Five Star Resources	Antero Resources Corporation	1/8+	181A/0305
AA: Robert E. & Michaelmary Midcap Lease			
Robert E. Midcap and Mchaelmary Midcap	Antero Resources Corporation	1/8+	260A/0267
AD: Ridgetop Royalties, LLC Lease			
Ridgetop Royalties, LLC	Antero Resources Corporation	1/8+	231A/0824
AF: Paul H. Abel Lease			
Paul H. Abel	Antero Resources Corporation	1/8+	184A/0164
AE: Linda Ice Long Lease		. . .	tooms
Linda ice Long	Antero Resources Corporation	1/8+	237A/0676
AG: Chesapeake Appalachia, LLC Lease	CIAIN Deaduction Communication	4 /0	4574/0540
Chesapeake Appalachia LLC	SWN Production Company	1/8	157A/0640
SWN Production Company	Antero Exchange Properties LLC	Assignment	177A/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Name Change	0013/0311
AH: Dennis B. Moore Lease			
Dennis B. Moore	Stone Energy Corporation	1/8+	132A/0037
Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
AJ: Ridgetop Royalties, LLC Lease			
Ridgetop Royalties, LLC	Antero Resources Corporation	1/8+ RECEIVI Office of Oil a	ED 231A/0815 and Gas

*CONTINUED ON NEXT PAGE

APR **2 2** 2022 05/13/2022 Operator's Well Number

Baldy Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
AH: Dennis B. Moore Lease			
Dennis B. Moore	Stone Energy Corporation	1/8+	132A/0037
Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801
AL: Charmaine A. Starkweather, et vir Lease			
Charmaine A. Starkweather and Heath C. Starkweather	Stone Energy Corporation	1/8+	135A/0030
Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
EQT Production Company	Antero Resources Corporation	Assignment	230A/0801

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APR 2 2 2022

^{*}Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

WW-6A1 (5/13)

Operator's Well No.	Baldy Unit 1H MOD
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- (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
AM: Stone Hill Minerals Hold	lings, LLC Lease			
	Stone Hill Minerals Holdings, LLC	Antero Resources Corporation	1/8+	259A/0769

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

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

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

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

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

Well Operator:	Antero Resources Corporati	on RECEIVED Office of Oil and Gas
By:	Tim Rady	
Its:	VP of Land	APR 2 2 2022
		WV Department of Environmental Protectio

05/13/2022



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

Expedited Modification H6A Horizontal Well Work Permit (API: 47-103-03478, 03479, 03480)

1 message

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

Fri, May 13, 2022 at 12:11 PM

To: Mallory Stanton <mstanton@anteroresources.com>, Diane Blair <dblair@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, Scott Lemley <slemley@wvassessor.com>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>

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

47-103-03478 - BALDY UNIT 1H 47-103-03479 - BALDY UNIT 2H 47-103-03480 - BALDY UNIT 3H

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

47-103-03478 - mod.pdf 1351K

47-103-03479 - mod.pdf 1632K

47-103-03480 - mod.pdf 1549K

47-103-03480 - mod.pdf



April 20, 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

> 4007059 \$5000°

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Red Lady Pad; Baldy Unit 1H & 2H, Cavatica Unit 2H (47-103-03478, 47-103-03479, 47-103-03482)

Attached you will find the following:

- Revised Forms WW-6B
- Revised Forms WW-6A1
- Revised Mylar Plats
- ➢ AORs

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

Thank you in advance for your consideration.

Sincerely,

Diane Blair Permitting Agent

Antero Resources Corporation

Owne Blair

Enclosures

Office of Oil and Gas

APR 2 2 2022



	Well Name	Well Number	Operator	Historical Operator	Ω	TD Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
	DAVE AMOS	1			1,932		Big Injun	Weir, Berea, Benson, Alexander
-		1			2,410		Big Injun	Weir, Berea, Benson, Alexander
-	QUINCE LEMON	1			640		1st Cow Rn	Weir, Berea, Benson, Alexander
	HLCALVERT	1	PERKINS OIL & GAS	FERRELLJH	3,100		Gordon	Weir, Berea, Benson, Alexander





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WV Department of Environmental/Brojection 22