

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 2H

47-103-03479-00-00

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 2H

Farm Name: MARGARET LANCASTER

U.S. WELL NUMBER: 47-103-03479-00-00

Horizontal 6A New Drill

Date Modification Issued: 05/13/2022

Promoting a healthy environment.

WW-6B (04/15) 4007060 550000 4017060 47 10 3 0 3 4 7 9

OPERATOR WELL NO. Baldy Unit 2H 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 Opera	tor: Antero	Resources	Corpora	494507062	103-Wetzel	Green	Porter Falls 7.5'
N. O. C. S. P. S. A.				Operator ID	County	District	Quadrangle
2) Operator's	Well Number	r: Baldy Unit	2H MOD	Well Pa	d Name: Red	Lady Pad	
3) Farm Name	/Surface Ow	ner: Margar	et Lancas	ster Public Ro	ad Access: We	etzel Tyler	Ridge Rd
4) Elevation, c	current groun	d: 1237'	Ele	evation, proposed	post-construct	ion: ~120	6'
5) Well Type	(a) Gas Other	X	_ Oil	Und	erground Stora	ige	
	(b)If Gas	Shallow Horizontal	X	Deep	_		-1
6) Existing Pa	d: Yes or No	Yes			_		
				ipated Thickness ss- 55 feet, Assoc			
8) Proposed T	otal Vertical	Depth: 740	0' TVD 🧸	*			RECEIVED.
9) Formation a			Marcellus				Office of Oil and
10) Proposed			29,000'				APR 2 2 20
11) Proposed 1			19,733.4	/			WV Department Environmental Prote
12) Approxim	ate Fresh Wa	nter Strata De	pths:	33', 283', 831'	-		
13) Method to 14) Approxim			cpuis	95-02177, 095-02104 Offse	t well records. Depths I	nave been adjuste	ed according to surface elevations.
15) Approxim	ate Coal Sea	m Depths: 8	51'				
16) Approxim	ate Depth to	Possible Voi	d (coal mi	ne, karst, other):	None Anticipa	ated	
17) Does Prop directly overly				ms Yes	N	o <u>X</u>	
(a) If Yes, pr	rovide Mine	Info: Name					
		Depth	:				
		Seam:					
		Owne	r:				

WW-6B (04/15) API NO. 47- 103

OPERATOR WELL NO. Baldy Unit 2H 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#	29,000'	29,000'	CTS, 6390 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Times L. Sheywold 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	BECEIVED
Sizes:	N/A	Office of Oil & Gas MAY 0 9 2022
Depths Set:	N/A	WV Department of

WW-6B (10/14) API NO. 47-103 0 3 0 3 4 7 9

OPERATOR WELL NO. Baldy Unit 2H 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

25) Proposed borehole conditioning procedures:

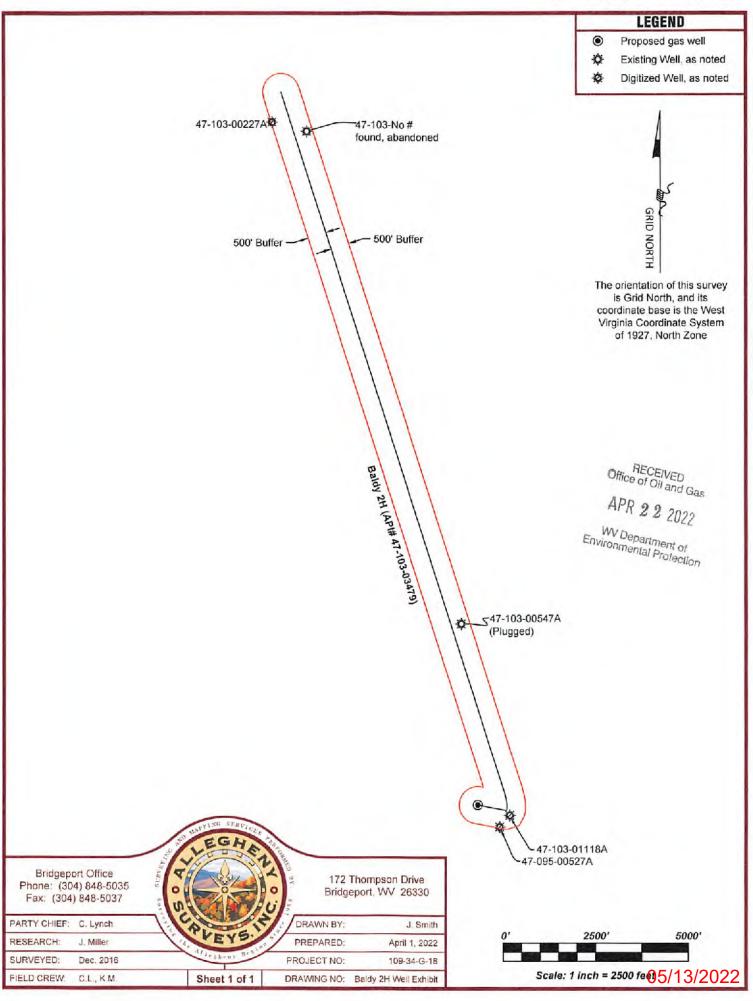
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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.



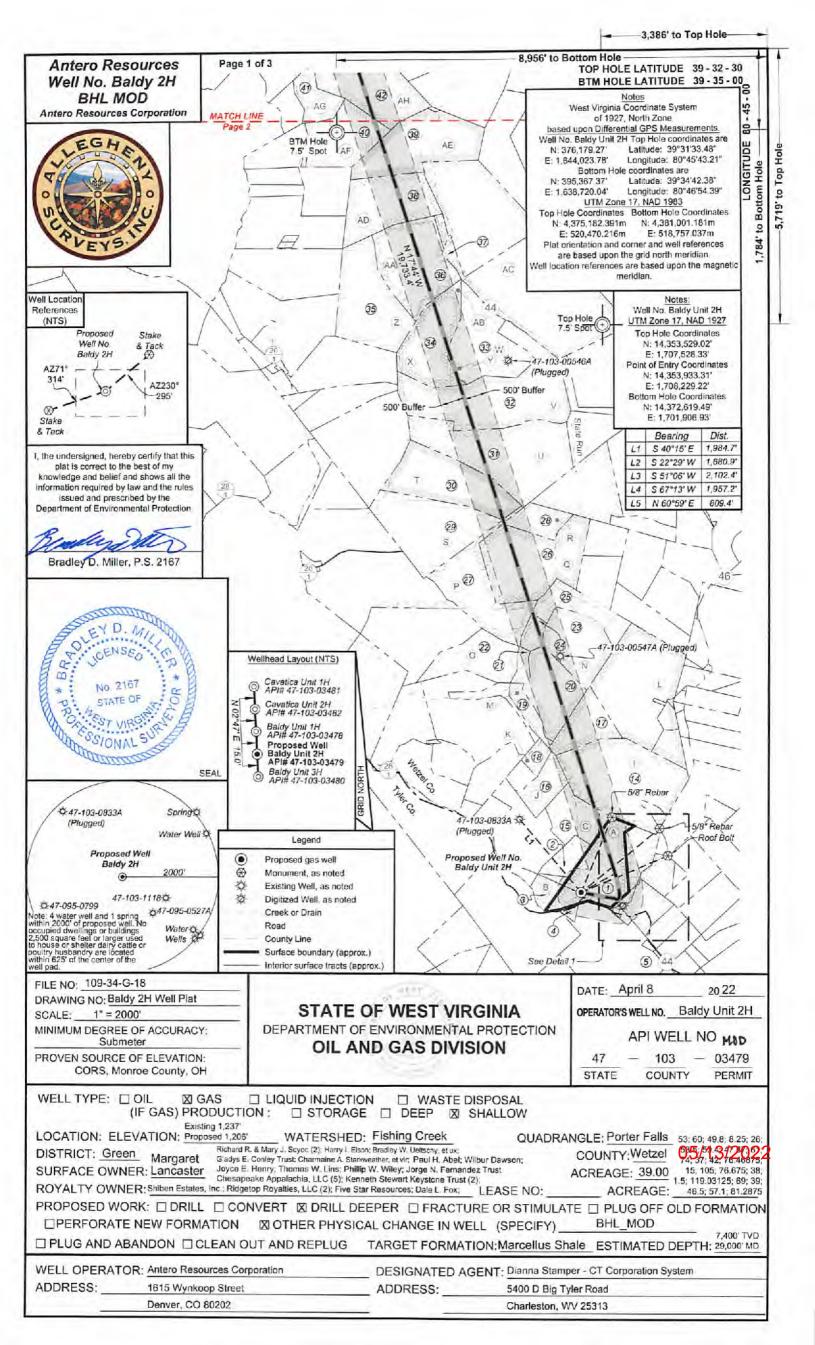
47-103-03479

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095305270000	SARAH J LANCASTER 1	1678	HOPE NATURAL GAS	HOPE NATURAL GAS	3,047	- A Thirth County and the second and	Big injun, Gordon	Weir, Berea, Benson, Alexander
47103311180000	NORMAN CUNNINGHAM	2	UNKNOWN	UNKNOWN	7			
47103305470000	BFFOX	2328	HOPE NATURAL GAS	HOPE NATURAL GAS	3,045		Big Injun, Gordon	Weir, Berea, Benson, Alexander
47103302270000	J B WHITEMAN	.2	DAUBENSPECK & MASON	DAUBENSPECK & MASON	2,343		Big Injun	Weir, Berea, Benson, Alexander
47103 - No # found								

RECEIVED Office of Oil and Gas

MAY 13 2022

WV Department of Environmental Protection

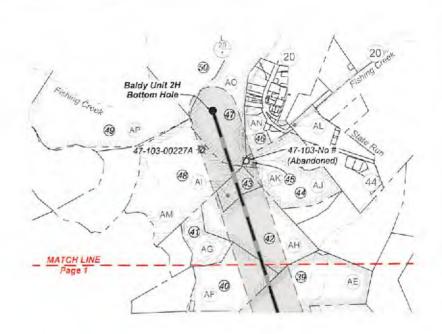


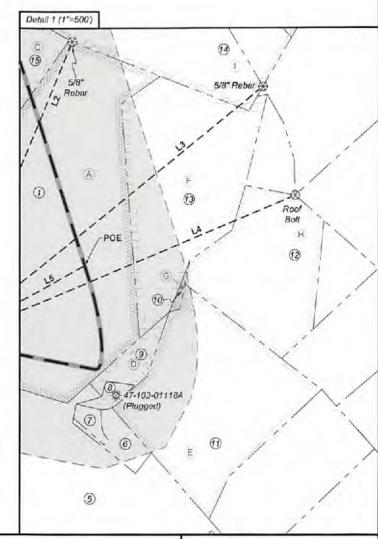
Antero Resources Well No. Baldy 2H BHL MOD

Antero Resources Corporation



Page 2 of 3





Charleston, WV 25313

FILE NO: 109-34-G-18

DRAWING NO: Baldy 2H Well Plat

SCALE: 1" = 2000'

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

		011.12
(IF GAS) PRODUCTION		E DISPOSAL S SHALLOW
SURFACE OWNER: Lancaster Joyce E.	B Mary J. Scyce (2); Harry I. Elson; Bradley W. Ueltschy, et us Conley Trust: Charmaine A. Starkweather, et vir. Paul H. Abe Henry; Thomas W. Lins; Phillip W. Wiley; Jorge N. Ferr Jake Appalachia, LLC (5); Kenneth Stewart Keystone Tr	city Wilbur Dawson. COUNTY: Wetzel 25, 14, 17, 12, 16, 18673. Standard Trust ACREAGE: 39.00 15, 105, 109, 109, 109, 109, 109, 109, 109, 109
PROPOSED WORK: ☐ DRILL ☐ CON☐ PERFORATE NEW FORMATION☐ PLUG AND ABANDON ☐ CLEAN O	☑ OTHER PHYSICAL CHANGE IN	WELL (SPECIFY) BHL_MOD 7.400.TVD
WELL OPERATOR: Antero Resources Corr ADDRESS: 1615 Wynkoop Street	poration DESIGNATED ADDRESS:	AGENT: Dianna Stamper - CT Corporation System 5400 D Big Tyler Road

Antero Resources Well No. Baldy 2H BHL MOD

Page 3 of 3

Antero Resources Corporation



SUNVEYS

	Leases
Α	Shiben Estates, Inc.
В	Randy Bradley
C	Richard R. & Mary J. Scyoc
D	Shiben Estates, Inc.
E	Thomas J. lacoboni Revocable Trust
F	Margaret Lancaster
G	Cecil E. Lancaster
Н	Betty S. Burns
1	Richard R. & Mary J. Scyoc
J	Shiben Estates, Inc.
K	Antero Minerals, LLC
L	Chesapeake Appalachia, LLC
М	Dale L. Fox
N	Joyce E. Henry
0	Edward D. & Heather M. Stewart
P	Thomas W. Lins
Q	Harry I. Elson
R	Chesapeake Appatachia, LLC
S	Kenneth Stewart Keystone Trust
T	Kenneth Stewart Keystone Trust
Ü	Gladys E. Conley Trust
V	Chesepeake Appalachia, LLC
W	Wilbur Dawson
Х	Chesapeake Appalachia, LLC
Y	Jorge N. Fernandez Trust
Z	Robert E. & Michaelmary Midcap
AA	Five Star Resources
AB	Garnet Gas Company
AC	Lee & Hall Royalties
AD	Ridgetop Royalties, LLC
AE	Paul H. Abei
AF	Chesapeake Appalachia, LLC
AG	Dennis B. Moore
AH	Ridgetop Royalties, LLC
Al	Phillip W. Wiley
AJ	Leslie A. Lively
AK	Frances C. Fluharty
AL	WVDNR
AM	Charmaine A. Starkweather, et vi
AN	Mark W. Booth
AO	Bradley W. Ueltschy, et ux
AP	Stone Hill Minerals Holdings, LLC

FILE NO: 109-34-G-18 DRAWING NO: Baldy 2H Well Plat SCALE: 1" = 2000" MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

	48	12-17	Charmaine
	49	12-1	Br
	50	7-38	N
STATE OF NO DEPARTMENT OF ENV OIL AND O	IRONMENT	AL PRO	TECTION

ID TM-Par

2

19-31

19-30

19-52

85 / 62 W69 / 226 60.91 Crystal A. Muzzy (Tyler Co.) 5 12-27 othy R. & Janette D. Long (Tyler Co.) 334 / 103 | 1.39 6 12-27.1 Timothy R. & Janette D. Long (Tyler Co.) 334 / 103 | 0.45 Timothy R. & Janette D. Long 406 / 178 0.25 8 19-38,2 Margaret Lancaster 333 / 440 1.75 19-53 10 19-39 Margaret Lancaster W10 / 315 0.28 Crystal A. Muzzy 420 / 28 | 15.80 11 19-40 John A. Earnest 401 / 357 9.30 12 19-33 Margaret Lancaster 333 / 440 | 13.00 19-32 13 Richard R. & Mary J. Scyoc 443 / 336 73.96 14 19-16 19-23 Richard R. & Mary J. Scyoc 452 / 177 | 25.00 15 16 19-15 Joshua Highley 464 / 208 | 17.00 John Sheldon Condit 309 / 312 24.25 17 19-22 419 / 822 6.00 297 / 608 6.50 19-14 Joshua Highley Gregg Weis 19 19-5 435 / 308 25.00 16-59.1 Mark Goldstein 20 16-73 Gregg Weis 294 / 477 5.00 21 Edward D. & Heather M. Stewart 390 / 10 | 32.60 22 16-53 305 / 586 34.97 Mark & Patti Goldstein 23 16-59 24 16-74 Mark I. Goldstein 431 / 532 6.00 25 16-54 James E. Newman 400 / 234 8.00 316 / 248 61.00 Garrett S. Estate 16-37 26 16-44 Kenneth E. Stewart Keystone Trust 424 / 821 46.30 W45 / 396 15.00 28 16-21.1 Mildred E. Caseman Kenneth E. Stewart Keystone Trust 424 / 821 53.00 29 16-36 30 16-29 Kenneth E. Stewart Keystone Trust 424 / 821 53.50 Bonita Andrich, et al W70 / 243 79 03 31 16-20 32 16-8 Wilber B. Dawson & Loretta P. Ueltschey 408 / 192 75.75 Wilber B. Dawson & Loretta P. Ueltschey 33 16-3 408 / 192 49.80 Wilber B. Dawson & Loretta P. Ueltschey 408 / 192 44.50 34 16-2 Robert E. Midcap 399 / 40 57.00 35 12-53 Jerri L. & Donald H. Satterfield, Jr. 399 / 108 54.72 370 / 125 3.45 36 12-54 Gregory W. & April D. Ueltschey 37 12-49.1 362 / 403 47.87 12-48 John W. & Rosalie M. Ueltschey Martin E. Rodgers 421 / 621 60.00 342 / 74 37.00 39 12-39 Roger D. & Tina S. Midcap 40 12-38 41 12-25 Jerome E. Staley 242 / 72 15.00 Martin E. Rodgers 42 12-26 419 / 493 50.40 Phillip Wiley 361 / 471 8.25 43 12-26.1 44 12-18 Leslie A. Lively 387 / 229 39.63 45 12-18.3 Frances C. Fluharty 312 / 345 1.00 467 / 695 7.50 Brian K. & Rebecca A. Starkey 46 12-2 342 / 710 79.78 47 7-50 Bradley W. & Kimberly Ueltschey 427 / 930 69.00 A. & Heath C. Starkweather radley W. Ueltschey Marikay G. Corliss 447 / 763 144.00

Owner

Margaret Lancaster

Richard R. & Mary J. Scyoc

Joshua Highley

Garrett Cemetery

Bk/Pa

452 / 177 | 13.00

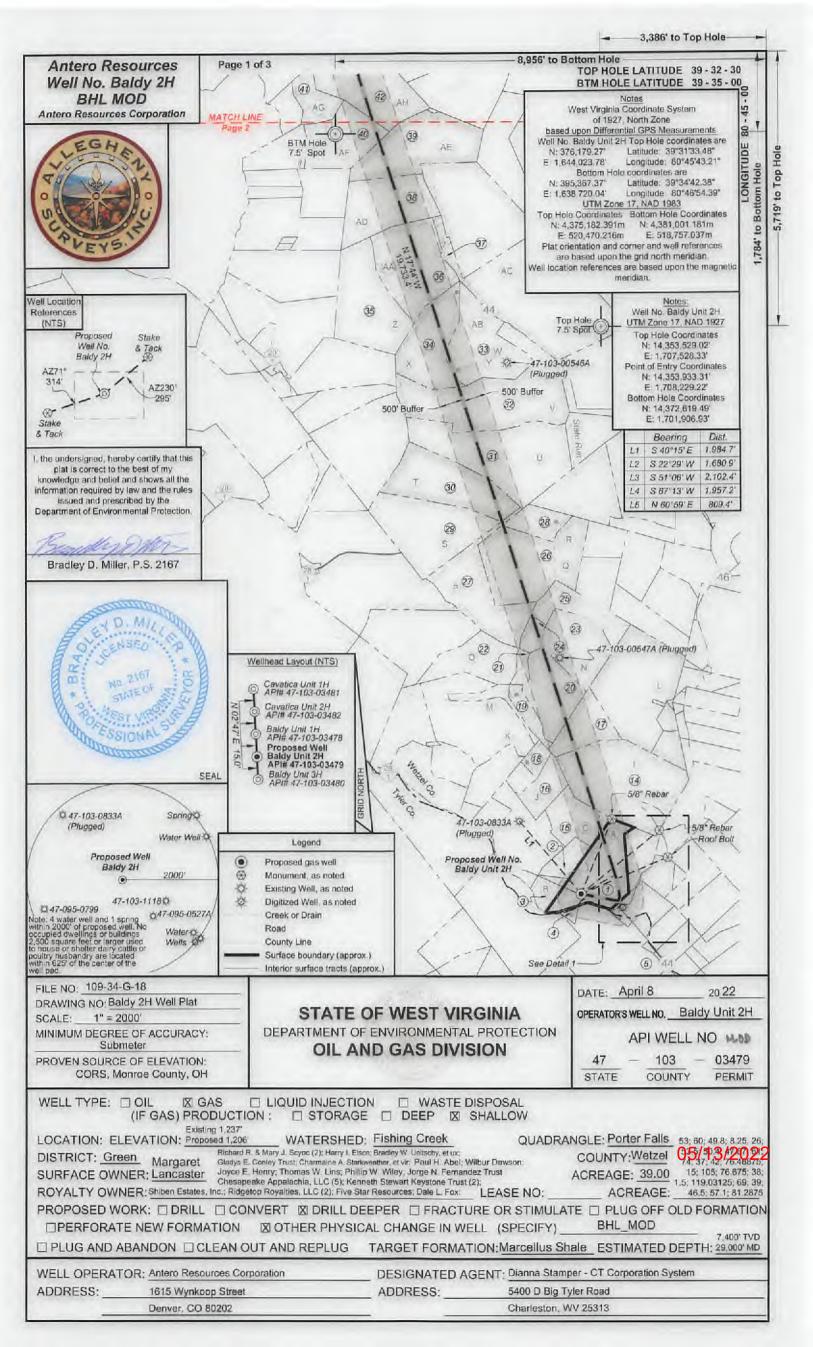
464 / 208 8.01

Acres 333 / 440 | 39.00

1.80

DATE: A	oril 8	2	022
OPERATOR'S	WELL NO.	Baldy	Unit 2H
	API WE	ELL NO	MOD
47	- 103	3	03479
STATE	COU	YTY	PERMIT

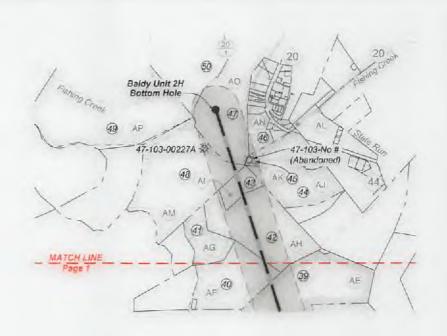
WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☑ SHALLOW
OCATION: ELEVATION: Proposed 1,206' WATERSHED: Fishing Creek QUADRANGLE: Porter Falls 53; 60; 49.8; 8.25; 26;
DISTRICT: Green Margaret Marga
SURFACE OWNER: Lancaster Joyce E. Henry: Thomas W. Lins; Phillip W. Wiley; Jorge N. Fernandez Trust ACREAGE: 39.00 15; 105; 76.675; 38: Chesapeake Appalachia, LLC (5); Kenneth Stewart Keystone Trust (2):
ROYALTY OWNER: Shiben Estates, Inc.; Ridgetop Royalties, LLC (2); Five Star Resources; Dale L. Fox; LEASE NO: ACREAGE: 46.5; 57.1; 81.2875
PROPOSED WORK: ☐ DRILL ☐ CONVERT 🗵 DRILL DEEPER 🗆 FRACTURE OR STIMULATE 🗆 PLUG OFF OLD FORMATION
□PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)BHL_MOD
PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,000° MD
VELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
DDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

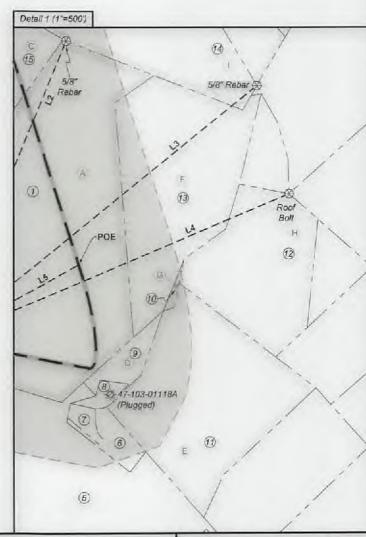


Antero Resources Well No. Baldy 2H BHL MOD Antero Resources Corporation

Page 2 of 3







Charleston, WV 25313

FILE NO: 109-34-G-18
DRAWING NO: Baldy 2H Well Plat
SCALE: 1" = 2000'

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

OPERATOR'S WELL NO. ______ Baldy Unit 2H

API WELL NO MAD

47 ______ 103 _____ 03479

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☑ GAS (IF GAS) PRODUCTION	☐ LIQUID INJECTION ☐ WASTE DISPOSAL ON: ☐ STORAGE ☐ DEEP ☒ SHALLOW				
SURFACE OWNER: Langaster Joyce E.	R. & Mary J. Scyoc (2); Harry I. Elson; Bradley W. Ueltschy, et ux; Conley Trust: Charmaine A. Starkweatner, et vir; Paul H. Abel; Willbur Dawson; Henry; Thomas W. Lins; Phillip W. Wiley; Jorge N. Fernandez Trust Bake Appalachia, LLC (5); Kenneth Stewart Keystone Trust (2);	JADRANGLE: Porter Falls 53; 60; 49.8; 8.25; 26; COUNTY: Wetzel ACREAGE: 39.00 15; 105; 76.675; 38; 15; 119.03125; 69; 39; 0: ACREAGE: 46.5; 57.1; 81.2875			
PROPOSED WORK: □ DRILL □ CONVERT ☒ DRILL DEEPER □ FRACTURE OR STIMULATE □ PLUG OFF OLD FORMATION □ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ■ BHL_MOD □ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,000° MD					
WELL OPERATOR: Antero Resources Corr ADDRESS: 1615 Wynkoop Street		na Stamper - CT Corporation System D Big Tyler Road			

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AO	Bradley W. Ueltschy, et ux
AP	Stone Hill Minerals Holdings, LLC

ID	TM-Par	Owner	Bk/Pg	Acres
1	19-31	Margaret Lancaster	333 / 440	39.00
2	19-30	Richard R. & Mary J. Scyoc	452 / 177	13.00
3	19-52	Joshua Highley	464 / 208	8.01
4	-	Garrett Cemelery	85 / 62	1.80
5	12-27	Crystal A. Muzzy (Tyler Co.)	W69 / 226	60.91
6	12-27.1	Timothy R. & Janette D. Long (Tyler Co.)	334 / 103	1.39
7	12-36	Timothy R. & Janette D. Long (Tyler Co.)	334 / 103	0.45
8	19-38.2	Timothy R. & Janette D. Long	406 / 178	0.25
9	19-53	Margaret Lancaster	333 / 440	1.75
10	19-39	Margaret Lancaster	W10 / 315	0.28
11	19-40	Crystal A. Muzzy	420 / 28	15.80
12	19-33	John A. Earnest	401 / 357	9.30
13	19-32	Margaret Lancaster	333 / 440	13.00
14	19-16	Richard R. & Mary J. Scyoc	443 / 336	73.96
15	19-23	Richard R. & Mary J. Scyoc	452 / 177	25.00
16	19-15	Joshua Highley	464 / 208	17.00
17	19-22	John Sheldon Condit	309/312	24.25
18	19-14	Joshua Highley	419 / 822	6.00
19	19-5	Gregg Weis	297 / 608	6.50
20	16-59.1	Mark Goldstein	435 / 308	25.00
21	16-73	Gregg Weis	294 / 477	5.00
22	16-53	Edward D. & Heather M. Stewart	390 / 10	32.60
23	16-59	Mark & Patti Goldstein	305 / 586	34.97
24	16-39	Mark I. Goldstein	431 / 532	6.00
25	16-54	James E. Newman	400 / 234	8.00
	16-37	Garrett S. Estate	316 / 248	61.00
26	16-44	Kenneth E. Stewart Keystone Trust	424 / 821	46.30
		Mildred E. Caseman	W45 / 396	15.00
28	16-21.1	Kenneth E. Stewart Keystone Trust	424 / 821	53.00
	16-36	Kenneth E. Stewart Keystone Trust	424 / 821	53.50
30	16-29	Bonita Andrich, et al	W70 / 243	
31	16-20	Wilber B. Dawson & Loretta P. Ueltschey	408 / 192	75.75
32	16-8	Wilber B. Dawson & Loretta P. Ueltschey		49.80
33	16-3	Wilber B. Dawson & Loretta P. Ueltschey	408 / 192	
34	16-2	Robert E. Midcap	408 / 192	44.50
35	12-53	Jerri L. & Donald H. Satterfield, Jr.	399 / 40	57.00
36	12-54		399 / 108	
37	12-49.1	Gregory W. & April D. Ueltschey	370 / 125	3.45
38	12-48	John W. & Rosalie M. Ueltschey	362 / 403	47.87
39	12-39	Martin E. Rodgers	421 / 621	60.00
40	12-38	Roger D. & Tina S. Midcap	342 / 74	37.00
41	12-25	Jerome E. Staley	242 / 72	15.00
42	12-26	Martin E. Rodgers	419 / 493	50.40
43	12-26.1	Phillip Wiley	361 / 471	8.25
44	12-18	Leslie A. Lively	387 / 229	39.63
45	12-18.3	Frances C. Fluharty	312 / 345	1.00
46	12-2	Brian K. & Rebecca A. Starkey	467 / 695	7.50
47	7-50	Bradley W. & Kimberly Ueltschey	342 / 710	79.78
48	12-17	Charmaine A. & Heath C. Starkweather	427 / 930	69.00
49	12-1	Bradley W. Ueltschey	476 / 310	78.13
50	7-38	Marikay G. Corliss	447 / 763	144.00

DRAWING NO: Baldy 2H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

DATE: April 8 20 22

OPERATOR'S WELL NO. Baldy Unit 2H

API WELL NO HON

47 — 103 — 03479

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION: ☐ STOR	
Richard R. & Mary J. Scync (2): Harr	HED: Fishing Creek QUADRANGLE: Porter Falls 53, 60, 49.8, 8.25; 26;
SURFACE OWNER: Langaster Joyce E. Henry, Thomas W. Lins	A Starkweather, et vir. Paul H. Abel; Wilbur Dawson; Phillip W. Wiley; Jorge N. Fernandez Trust ACREAGE: 39.00 15; 105; 76.675; 38;
ROYALTY OWNER: Shiben Estates, Inc.: Ridgetop Royalties, LLC (2); F): Kenneth Stewart Keystone Trust (2); ive Star Resources; Dale L. Fox; LEASE NO: ACREAGE: 46.5; 57.1; 81.2875
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL ☐ PERFORATE NEW FORMATION ☒ OTHER PHY	L DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION YSICAL CHANGE IN WELL (SPECIFY) BHL_MOD 7.400'TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLU	
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street	ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202	Charleston, WV 25313

Operator's Well Number

Baldy Unit 2H 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
C: Richard R. & Mary J. Scyoc Lease			12/21/20
Richard R. Scyoc & Mary J. Scyoc	Antero Resources Corporation	1/8+	179A/0613
I: Richard R. & Mary J. Scyoc Lease	SALE OF THE SALE O	4.20	
Richard R. Scyoc & Mary J. Scyoc	Antero Resources Corporation	1/8+	200A/0205
L: Chesapeake Appalachia, LLC Lease	200.2701.0702	344	7107,027
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
N: Joyce E. Henry Lease			
Joyce E. Henry a widow	Antero Resources Corporation	1/8+	179A/0591
M: Dale L. Fox Lease			
Dale L. Fox	Antero Resources Corporation	1/8+	247A/0225
P: Thomas W. Lins Lease			
Thomas W. Lins	Antero Resources Corporation	1/8+	240A/0639
R: 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
S: Kenneth Stewart Keystone Trust Lease			
Kenneth E. Stewart Keystone Trust Agreement dated 3/7/11	Antero Resources Corporation	1/8+	135A/0042
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+	251A/0794
V: 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
	*CONTINUED ON NEXT PAGE		05/13/2022

Operator's Well Number

Baldy Unit 2H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
X: 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
W: Wilbur Dawson Lease			
Wilbur B. Dawson	Antero Resources Corporation	1/8+	252A/0881
X: Chesapeake Appalachia, LLC Lease		. 10	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
Z: Five Star Resources Lease			
Five Star Resources	Antero Resources Corporation	1/8+	181A/0305
AC: Ridgetop Royalties, LLC Lease			
Ridgetop Royalties, LLC	Antero Resources Corporation	1/8+	231A/0824
AD: Paul H. Abel Lease			
Paul H. Abel	Antero Resources Corporation	1/8+	184A/0164
AE: 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
AG: Ridgetop Royalties, LLC Lease			
Ridgetop Royalties, LLC	Antero Resources Corporation	1/8+	231A/0815
AH: Phillip W. Wiley Lease			
Phillip W. Wiley	Antero Resources Corporation	1/8+	192A/0933
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

^{*}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	2H	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
AN: Bradley W. Ueltschy, et ux	<u>Lease</u>			
	Bradley W. Ueltschy, et ux	Central Michigan Exploration, LLC	1/8	101A/0342
	Central Michigan Exploration, LLC	Stone Energy Corporation	Assignment	102A/0869
	Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
	EQT Production Company	Antero Resources Corporation		

*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 Reso	purces Corporation
By:	Tim Rady	Can Voila
Its:	VP of Land	

Page 1 of 1



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

JWI (APINum)	Well Name	Well Number	Operator	Historical Operator	Ð	TD Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
7095005270000	HAWKINS B F	7	PENNZOIL CO INC	SOUTH PENN OIL	1,852	1809 - 1820	Big Injun	Weir, Berea, Benson, Alexander
47103011180000	JOHN SOLE	3	TRIBUNE RES LLC	PENNZOIL CO INC	3,132	2250 - 3076	Big Injun, Gordon	Weir, Berea, Benson, Alexander
47103005470000 R	R E SIMMONS	4788	MANUFACT LIGHT &HEAT	MANUFACT LIGHT & HEAT	2,162		Maxton	Weir, Berea, Benson, Alexander
47103002270000	HLCALVERT	1	PERKINS OIL & GAS	FERRELLJH	3,100		Gordon	Weir, Berea, Benson, Alexander



RECEIVED Office of Oil and Gas

APR 2 2 2022

WV Department of Environmental Protection

