



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

Thursday, March 10, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for WABLE UNIT 1H
47-095-02780-00-00

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.

A blue ink signature of James A. Martin, Chief, is written over a white background.

James A. Martin
Chief

Operator's Well Number: WABLE UNIT 1H
Farm Name: ROBERT D & VIRGINIA A NALLEY
U.S. WELL NUMBER: 47-095-02780-00-00
Horizontal 6A New Drill
Date Modification Issued: 3/10/2022

Promoting a healthy environment.

03/18/2022

WW-6B
(04/15)

2780
API NO. 47-095 MOD
OPERATOR WELL NO. Wable Unit 1H
Well Pad Name: Nalley Pad

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

1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Lincoln Paden City 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Wable Unit 1H Well Pad Name: Nalley Pad

3) Farm Name/Surface Owner: Robert D. Nalley et ux Public Road Access: WV-18 Tyler Highway

4) Elevation, current ground: 972' Elevation, proposed post-construction: _____

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 6600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25,400' ✓

11) Proposed Horizontal Leg Length: 15,047' ✓

12) Approximate Fresh Water Strata Depths: 158' ✓

13) Method to Determine Fresh Water Depths: 47-095-00912-0000 ✓

14) Approximate Saltwater Depths: 1678' ✓

15) Approximate Coal Seam Depths: 483' ✓

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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MAR 07 2022

WV Department of
Environmental Protection

*DCN
2-29-2022*

WW-6B
(04/15)

2780

API NO. 47-⁰⁹⁵ - ^{OD}
 OPERATOR WELL NO. Wable Unit 1H
 Well Pad Name: Nalley Pad

18) CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	H-40	79#	80'	80' ✓	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	300'	300' ✓	CTS, 313Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500' ✓	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	25,400'	25,400' ✓	CTS, 5473 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	24"	0.375"	2250	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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WV Department of
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WEN
2-24-2022

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03/18/2022

2780

WW-6B
(10/14)

API NO. 47-085 - - - MOD
OPERATOR WELL NO. Wable Unit 1H
Well Pad Name: Nalley Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 34.58 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.43 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

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

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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.



47095009540000

Wable Unit 1H

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FEB 18 2022

WV Department of
Environmental Protection

CK# 4605047
Amt \$2500
Date 2/17/22



Antero Resources Corporation

Wable Unit 1H - AOR



WELL SYMBOLS
Gas Well

February 11, 2022

03/18/2022

UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producibile Formation(s) not perf'd
47095009540000	KELLER ROBERT	2	LIPPIZAN PETRO INC	EMES JIM PET	2,870	2623 - 2642	Fifth	Berea, Alexander, Benson

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 Environmental Protection

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



Well Location References (NTS)

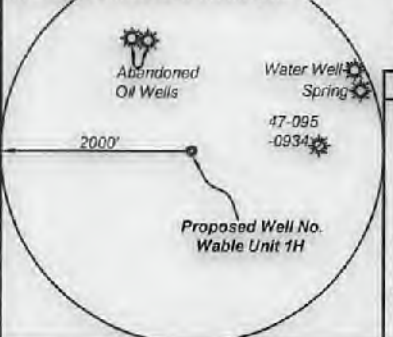


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



Note: 1 water well and 1 spring were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 525' of the center of the well pad.



Bearing	Dist.
L1 N 67°31' E	838.5'
L2 N 81°19' E	1,889.4'
L3 S 73°50' W	1,314.1'
L4 N 24°18' W	1,612.4'
L5 S 74°11' W	2,861.8'

Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

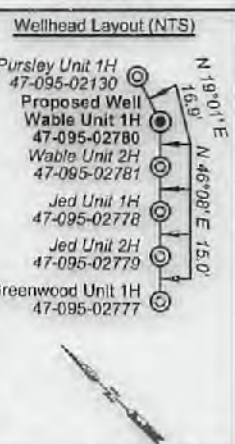
10,755' to Top Hole

8,666' to Bottom Hole

TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Wable Unit 1H Top Hole coordinates are
 N: 383,747.12' Longitude: 80°32'40.17"
 E: 1,589,753.86' Longitude: 80°57'17.29"
 Bottom Hole coordinates are
 N: 368,641.83' Longitude: 80°30'11.18"
 E: 1,581,605.05' Longitude: 80°56'50.56"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,377,211.528m N: 4,372,619.033m
 E: 503,898.210m E: 504,538.897m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

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 N: 14,360,187.63'
 E: 1,653,158.13'
 Point of Entry Coordinates
 N: 14,359,361.63'
 E: 1,650,419.13'
 Bottom Hole Coordinates
 N: 14,345,120.51'
 E: 1,655,260.53'



LONGITUDE 80 - 55 - 00

14,045' to Bottom Hole

14,148' to Top Hole

FILE NO: 270-54-L-13
 DRAWING NO: Wable Unit 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

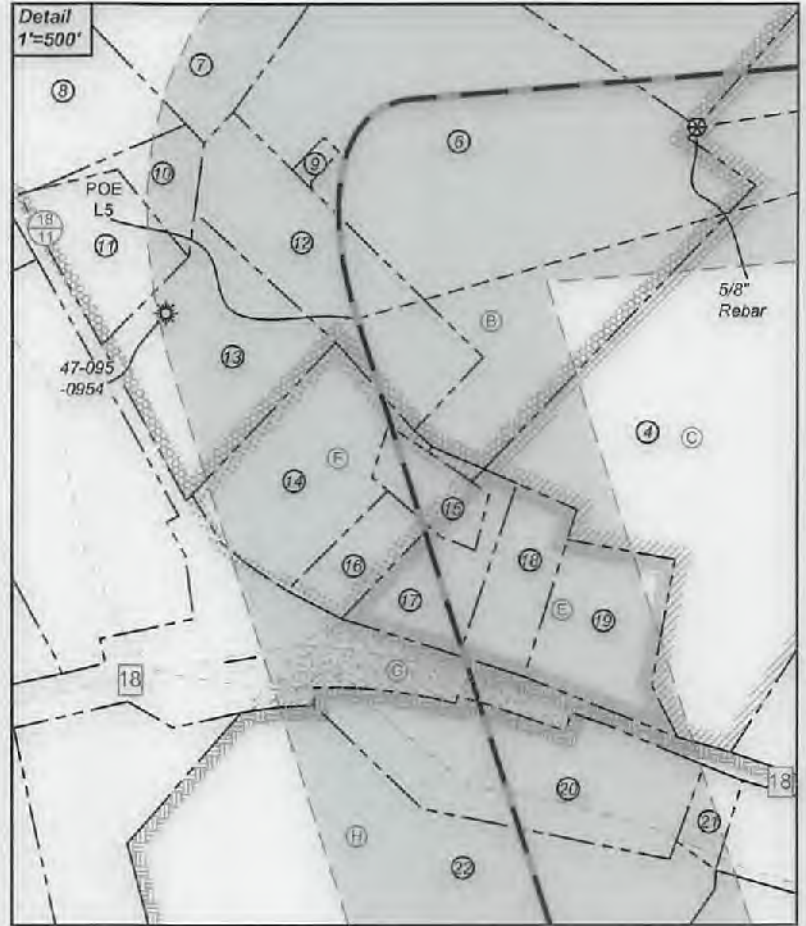
DATE: February 14 2022
 OPERATOR'S WELL NO. Wable Unit 1H
 API WELL NO
 47 - 095 - 02780 M
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 971.8' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
 DISTRICT: Lincoln Robert D. & WVDOT, Division of Highways; COUNTY: Tyler
 SURFACE OWNER: Virginia A. Nalley Donald H. Lancaster, Jr.; Donna Smith; Debra Lynn Warner; ACREAGE: 80.00
 ROYALTY OWNER: Robert D. Nalley, et ux (4); Robert L. Keller; William P. Ingram; Larry Folger, et ux; LEASE NO: ACREAGE: 127.39; 71.93152
 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: 6,600' TVD
 25,400' MD

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

03/18/2022



ID	TWP/Par	Owner	Bk/Pg	Acres
1	8-54	Robert D. & Virginia A. Nalley	198/41	80.00
2	8-38.3	Joann & Howard L. Schuppach Jr.	467/383	21.17
3	12-13	Robert D. & Virginia A. Nalley	183/452	38.75
4	8-53	Robert D. & Virginia A. Nalley	200/53	48.10
5	8-38.5	Donald D. & Alice J. Haught	300/583	21.17
6	8-38.6	Joann & Howard L. Schuppach Jr.	467/383	21.17
7	8-38	Joann & Howard L. Schuppach Jr.	451/645	98.77
8	8-47	Victoria L. Keller	223/15	21.05
9	8-38.7	Tyler County Shrine Club Holding Corp.	OR 53/41	0.15
10	8-49	Tonya Rachelle Keller	211/476	1.08
11	8-50	Tonya Rachelle Keller	200/281	2.51
12	8-38.2	Tyler County Shrine Club Holding Corp.	263/77	5.03
13	8-38.1	Dana L. Shields & Mary Clare	359/547	5.00
14	8-51	Robert D. & Virginia Nalley	186/336	4.50
15	8-51.1	Matthew Scott Ash	597/317	1.10
16	8-52	Robert D. Nalley	163/422	1.53
17	12-6	Robert D. Nalley	164/175	1.96
18	12-7	Robert D & Virginia Nalley	285/385	2.04
19	12-8	Robert D. & Virginia Nalley	305/151	3.80
20	12-9.1	WV DOT, Division of Highways	332/271	6.00
21	12-10	Joseph E. Miller	373/702	0.88
22	12-9	William P. & Joanne M. Ingram	174/60	43.10
23	12-27	William P. & Joanne Ingram	156/175	183.16
24	12-36	William A. & Tracy Fletcher	227/51	0.46
25	12-27.1	William & Tracy Fletcher	379/501	0.50
26	12-51	Rickie Lee Littleton	281/193	61.23
27	12-50	William P. Ingram	605/159	88.00
28	12-61	Melinda A. King	588/757	17.00
29	12-62	Leslie Ray Tennant, et al	282/305	50.00
30	12-56	Gerald C. & Mary Lou Clutter	247/307	17.87
31	12-57	Gerald C. & Mary Lou Clutter	247/307	3.78
32	12-60	Gerald C. & Mary Lou Clutter	286/350	17.50
33	12-59	Gerald C. & Mary Lou Clutter	286/350	11.00
34	12-58	John W. & Leah D. Starkey	373/699	19.25
35	15-9	Ridgetop Capital, LP	375/206	120.00
36	15-8	Ridgetop Capital, LP	375/206	68.20
37	15-13	B. F., Ben H. & Ida M. Kile	174/412	140.00
38	15-16	Mary Ann Devine, et al	W36/282	81.67
39	15-17	Earl & Donna Smith	191/12	127.39

Leases	
A	Robert D. Nalley, et ux
B	Robert L. Keller
C	Robert D. Nalley, et ux
D	Robert D. Nalley, et ux
E	Robert D. Nalley, et ux
F	Robert D. Nalley, et ux
G	WV DOT, Division of Highways
H	William P. Ingram
I	Larry Folger, et ux
J	BRC Appalachian Minerals I, LLC
K	BRC Appalachian Minerals I, LLC
L	Gerald C. Clutter, et ux
M	John W. Starkey, et ux
N	Ridgetop Capital LP
O	Donald H. Lancaster, Jr.
P	Dabra Lynn Warner
Q	Donna Smith

FILE NO: 270-54-L-13
 DRAWING NO: Wable Unit 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

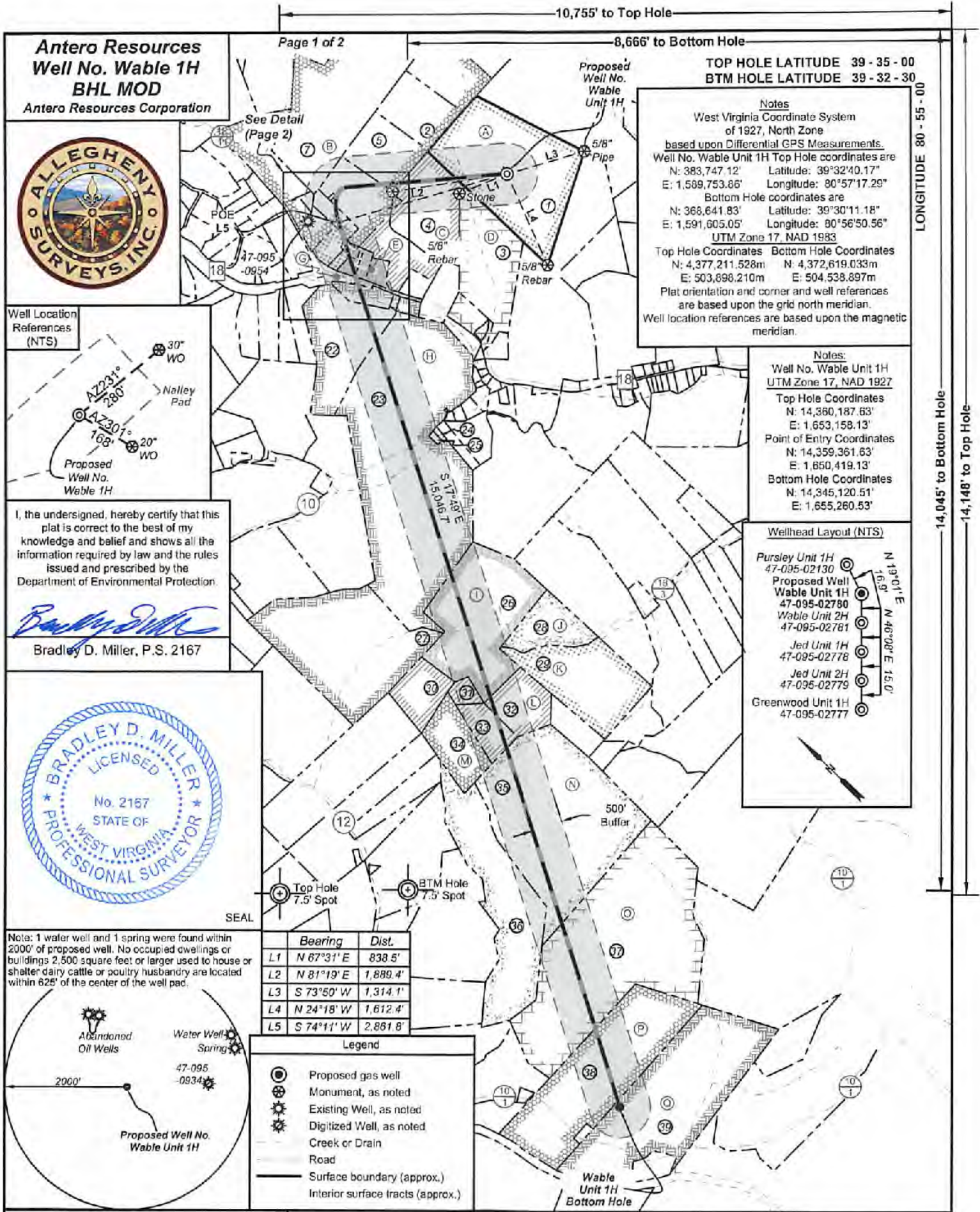
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: February 14 2022
 OPERATOR'S WELL NO. Wable Unit 1H
 API WELL NO
 47 - 095 - 02780
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built 971.8' WATERSHED: Middle Island Creek QUADRANGLE: Paden City
 DISTRICT: Lincoln Robert D. & Virginia A. Nalley WVDOT, Division of Highways; Donald H. Lancaster, Jr.; Donna Smith; Dabra Lynn Warner; Gerald C. Clutter, et ux; Ridgetop Capital, LP; COUNTY: Tyler
 SURFACE OWNER: Virginia A. Nalley ROYALTY OWNER: Robert D. Nalley, et ux (4); Robert L. Keller; William P. Ingram; Larry Folger, et ux; LEASE NO: ACREAGE: 80.00
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD ACREAGE: 61.225; 49.66; 205.862; 140.0; 127.39; 71.93152
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,400' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
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03/18/2022



Antero Resources
Well No. Wable 1H
BHL MOD
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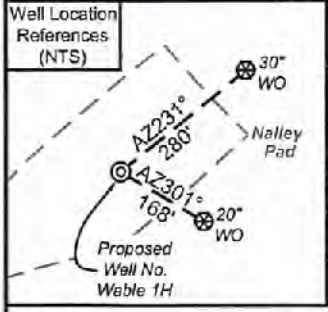


Page 1 of 2

TOP HOLE LATITUDE 39 - 35 - 00
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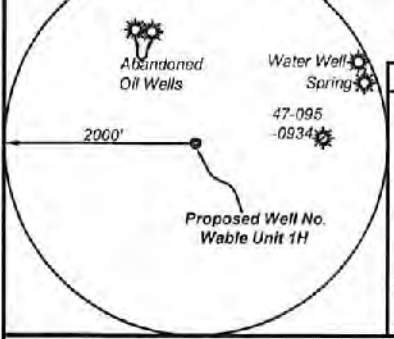
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



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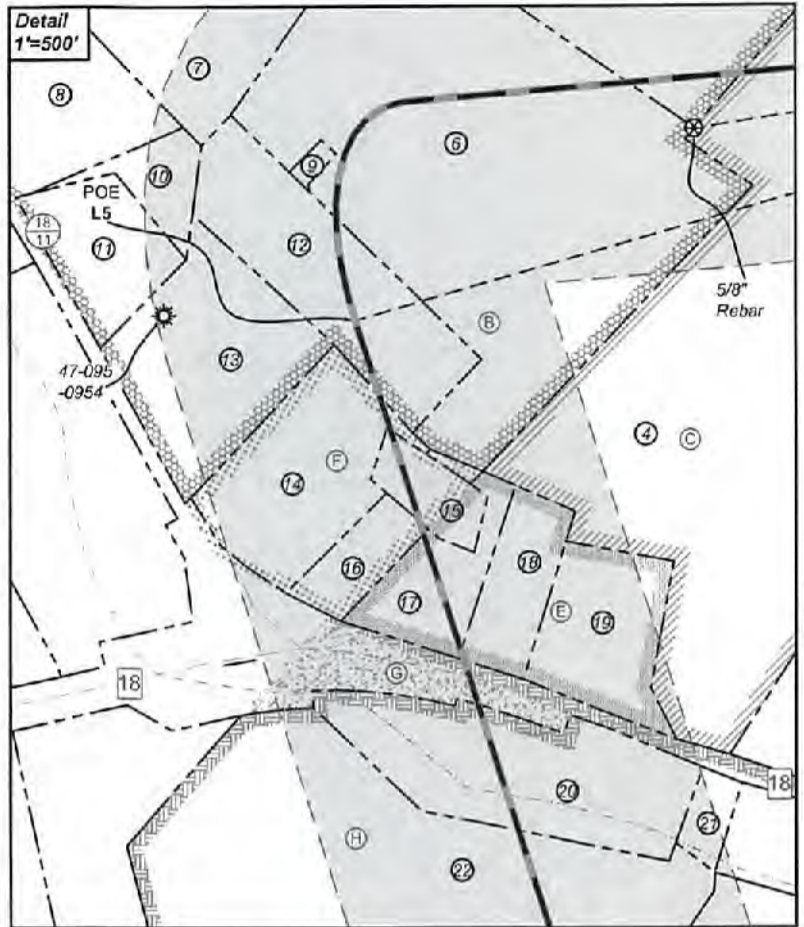
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20	12-9.1	WV DOT, Division of Highways	332/271	6.00
21	12-10	Joseph E. Miller	373/702	0.88
22	12-9	William P. & Joanne M. Ingram	174/60	43.10
23	12-27	William P. & Joanne Ingram	156/175	183.16
24	12-36	William A. & Tracy Fletcher	227/51	0.46
25	12-27.1	William & Tracy Fletcher	379/501	0.50
26	12-51	Rickie Lee Littleton	281/193	61.23
27	12-50	William P. Ingram	605/159	88.00
28	12-61	Melinda A. King	568/757	17.00
29	12-62	Leslie Ray Tennant, et al	282/305	50.00
30	12-56	Gerald C. & Mary Lou Clutter	247/307	17.87
31	12-57	Gerald C. & Mary Lou Clutter	247/307	3.78
32	12-60	Gerald C. & Mary Lou Clutter	286/350	17.50
33	12-59	Gerald C. & Mary Lou Clutter	286/350	11.00
34	12-58	John W. & Leah D. Starkey	373/699	19.25
35	15-9	Ridgetop Capital, LP	375/206	120.00
36	15-8	Ridgetop Capital, LP	375/206	68.20
37	15-13	B. F., Ben H. & Ida M. Kile	174/412	140.00
38	15-16	Mary Ann Devine, et al	W36/282	81.67
39	15-17	Earl & Donna Smith	191/12	127.39

Leases	
A	Robert D. Nalley, et ux
B	Robert L. Keller
C	Robert D. Nalley, et ux
D	Robert D. Nalley, et ux
E	Robert D. Nalley, et ux
F	Robert D. Nalley, et ux
G	WV DOT, Division of Highways
H	William P. Ingram
I	Larry Folger, et ux
J	BRC Appalachian Minerals I, LLC
K	BRC Appalachian Minerals I, LLC
L	Gerald C. Clutter, et ux
M	John W. Starkey, et ux
N	Ridgetop Capital LP
O	Donald H. Lancaster, Jr.
P	Debra Lynn Warner
Q	Donna Smith

FILE NO: 270-54-L-13
 DRAWING NO: Wable Unit 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

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

DATE: February 14 2022
 OPERATOR'S WELL NO. Wable Unit 1H
 API WELL NO
 47 - 095 - 02780 M
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 971.8' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
 DISTRICT: Lincoln COUNTY: Tyler
 SURFACE OWNER: Robert D. & Virginia A. Nalley WVDOT, Division of Highways; Donald H. Lancaster, Jr.; Donna Smith; Debra Lynn Warner; Gerald C. Clutter, et ux; Ridgetop Capital, LP; ACREAGE: 80.00
 ROYALTY OWNER: Robert D. Nalley, et ux (4); Robert L. Keller; William P. Ingram; Larry Folger, et ux; LEASE NO: ACREAGE: 127.39; 71.93152
 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: 6,600' TVD 25,400' MD

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

03/18/2022

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	<u>Robert D. Nalley et ux Lease</u> Robert D. Nalley and Virginia A. Nalley husband and wife	Antero Resources Corporation	1/8+	0134/0010
C	<u>Robert D. Nalley et ux Lease</u> Robert D. Nalley and Virginia A. Nalley husband and wife	Antero Resources Corporation	1/8+	0134/0010
B	<u>Robert L. Keller Lease</u> Robert L. Keller single Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Antero Resources Appalachian Corporation	Jim Emes Petroleum Company Robert Matthey Bald Eagle Oil and Gas LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment	0230/0379 0280/0521 0302/0109 0402/0303 0557/0430
E	<u>Robert D Nalley et ux Lease</u> Robert D Nalley et ux	Antero Resources Corporation	1/8+	587/120
F	<u>Robert D Nalley et ux Lease</u> Robert D Nalley et ux	Antero Resources Corporation	1/8+	587/120
G	<u>WVDOT Division of Highways Lease</u> WVDOT Division of Highways	Antero Resources Corporation	1/8+	156/166
H	<u>William P Ingram Lease</u> William P Ingram	Antero Resources Corporation	1/8+	148/145
I	<u>Larry Folger et ux Lease</u> Larry Folger	Antero Resources Corporation	1/8+	148/145
L	<u>Gerald C Clutter et ux Lease</u> Gerald C Clutter et ux	Antero Resources Corporation	1/8+	427/632
N	<u>Ridgetop Capital LP Lease</u> Ridgetop Capital LP	Antero Resources Corporation	1/8+	28/13
O	<u>Donald H Lancaster Jr Lease</u> Donald H Lancaster Jr	Antero Resources Corporation	1/8+	595/617
Q	<u>Debra Lynn Warner Lease</u> Debra Lynn Warner	Antero Resources Corporation	1/8+	127/334

RECEIVED
Office of Oil and Gas
FEB 18 2022
WV Department of
Environmental Protection

*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.

Operator's Well Number Wable Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
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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
<u>Donna Smith Lease</u>	Donna Smith	Antero Resources Corporation	1/8 +	552/608

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

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

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

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

RECEIVED
Office of Oil and Gas

FEB 18 2022

WV Department of
Environmental Protection

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

Well Operator: Antero Resources Corporation
 By: Tim Rady
 Its: VP of Land



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

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

1 message

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

Tue, Mar 15, 2022 at 10:25 AM

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

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

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

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

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

4 attachments

-  **47-095-02776 - mod.pdf**
1233K
-  **47-095-02777 - mod.pdf**
1501K
-  **47-095-02780 - moc.pdf**
1441K
-  **47-095-02778 - mod.pdf**
1467K

03/18/2022