

8,910' to Bottom Hole

6,681' to Top Hole

LATITUDE 39 - 30 - 00

LONGITUDE 80 - 52 - 30

4,299' to Bottom Hole

10,266' to Top Hole

Antero Resources
Well No. Lancaster Unit 1H

Antero Resources Corporation



Legend

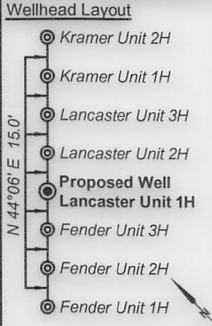
- ⊙ Proposed gas well
- ⊛ Monument, as noted
- ⊙ Existing Well, as noted
- ⊙ Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

See Detail Page 2

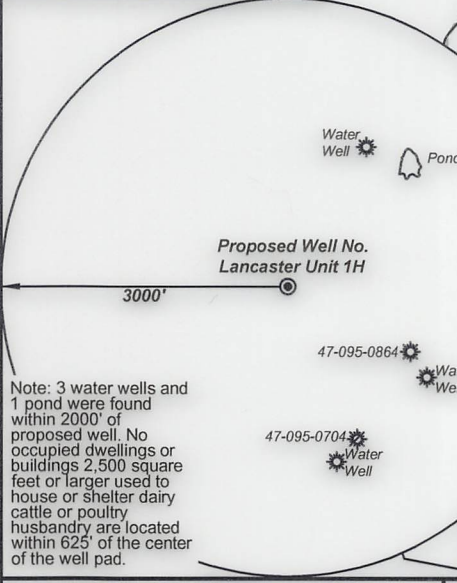
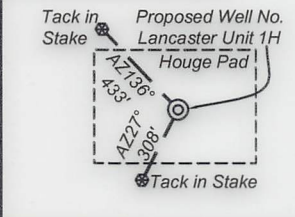
Page 1 of 4

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Lancaster Unit 1H Top Hole coordinates are
N: 356,923.62' Latitude: 39°28'17.52"
E: 1,605,326.71' Longitude: 80°53'53.19"
Bottom Hole coordinates are
N: 362,891.27' Latitude: 39°29'16.15"
E: 1,603,098.14' Longitude: 80°54'22.80"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,369,118.933m N: 4,370,925.650m
E: 508,778.833m E: 508,069.540m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Bearing	Dist.
L1 S 47°58' E	1,401.8'
L2 S 26°53' W	1,534.5'
L3 N 73°47' W	908.0'
L4 N 08°01' W	1,445.4'
L5 S 07°52' E	1,411.9'



Well Location References



Notes:
Well No. Lancaster Unit 1H UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,333,636.93'
E: 1,669,171.12'
Point of Entry Coordinates
N: 14,332,242.21'
E: 1,669,387.62'
Bottom Hole Coordinates
N: 14,339,564.52'
E: 1,666,844.04'

Leases

A	Michael J. & Melinda R. Hogue
B	Ridgetop Capital LP
C	James F. Doan, et ux
D	James F. Doan, et ux
E	Ryan L. Walton, et ux
F	David L. Lancaster, et ux
G	David L. Lancaster, et ux
H	Terry Lee Fiber
I	Joe & Shirley Varese
J	Eugene F. Howell, et ux
K	Open
L	Eugene F. Howell, et ux
M	OPEN
N	OPEN
O	OPEN
P	Barbara J. Davis
Q	OPEN
R	William M. Baker, et ux
S	Peter W. & Irmagard E. Guenter, Joint Living Trust
T	BRC Appalachian Minerals I, LLC
U	Robert C. Kramer
V	Ruth E. Blake
W	Charles E. Anderson, et ux
X	John Valentour
Y	Clara Jane Glover
Z	Brian D. Carpenter, et ux
AA	David A. Tustin
AB	Samuel O. Wagner
AC	Richard A. Fonner, et ux

Continued on Page 4



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
Bradley D. Miller, P.S. 2167

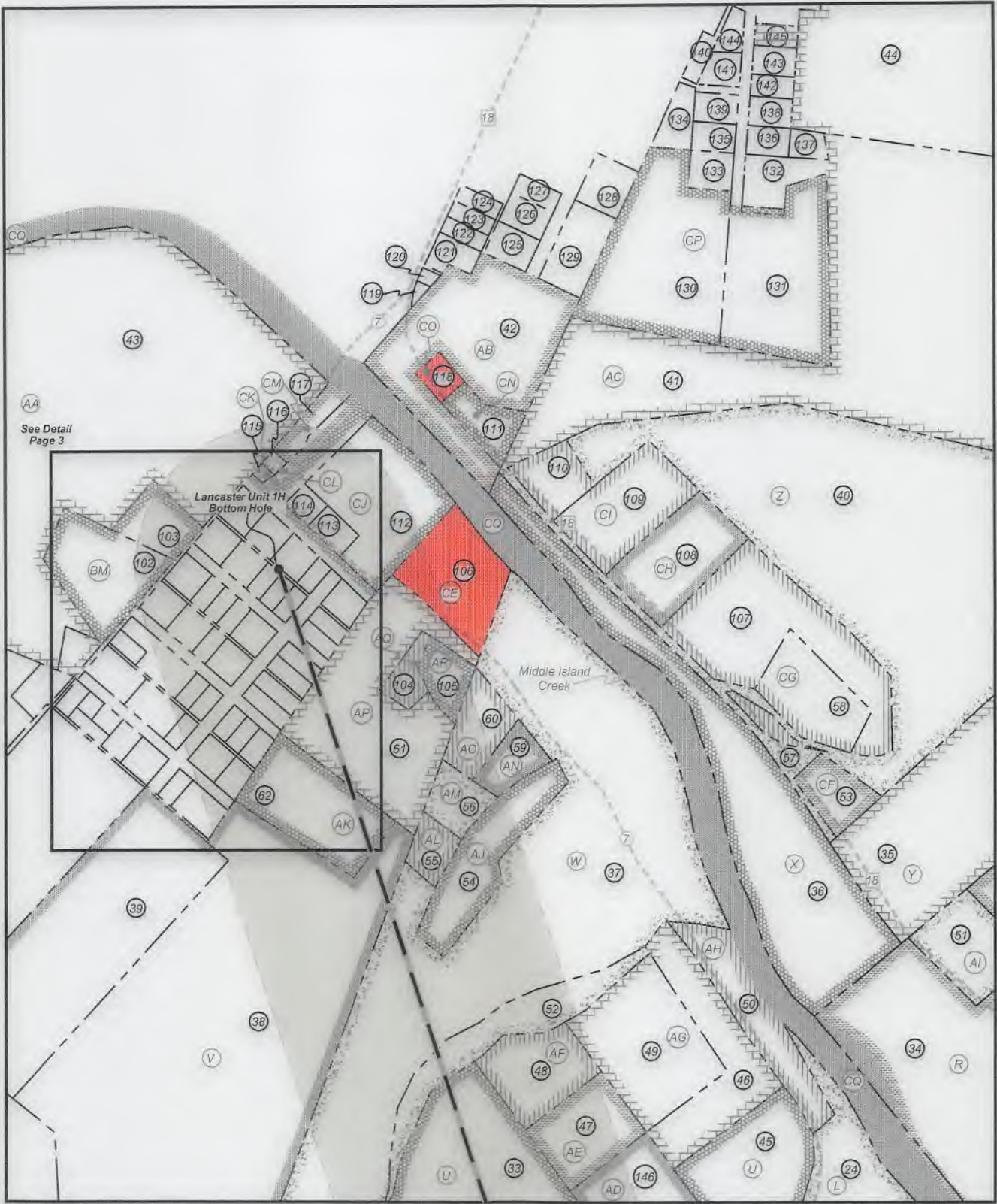
FILE NO: 11-54-E-19
DRAWING NO: Lancaster Unit 1H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: November 21, 2019
OPERATOR'S WELL NO. Lancaster 1H
API WELL NO. **464**
47 - 095 - **02474**
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
Proposed 1,014.5'
Existing 1,033'
LOCATION: ELEVATION: Outlet Middle Island Creek QUADRANGLE: Middlebourne 0.19971; 0.16319; 41.425; 191.5; 81.33; 11.318; 5.493; 47.016; 25.189; 23.964; 29.806; 3.0; 6.39; 0.19322; 0.21657; 0.1951; 0.16751; 0.33621
DISTRICT: Ellsworth Brenda Lee Oyster (2); Carolyn Westfall; Earnestine Pelikan; Rodney Mack Hayes (2); Earl E. Turner; Charles E. Anderson, et ux; Earnestine Pelikan & David Leasure; Joe & Shirley Varese; Eugene F. Howell, et ux (2); Robert C. Kramer;
SURFACE OWNER: Michael J. & Melinda R. Hogue LEASE NO: ACREAGE:
ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ruth E. Blake; Thurl Wayne Jones; ACREAGE:
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6,900' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,450' 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



FILE NO: 11-54-E-19
 DRAWING NO: Lancaster Unit 1H Well Plat
 SCALE: 1" = 1500'
 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: November 21, 2019
 OPERATOR'S WELL NO. Lancaster 1H
 API WELL NO. 4709502674
 47 - 095 - 02674
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Proposed 1,014.5' Existing 1,033' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue Brenda Lee Oyster (2); Carolyn Westfall; Earnestine Pelikan; Rodney Mack Hayes (2); Earl E. Turner; Charles E. Anderson, et ux; Earnestine Pelikan & David Leasure; Joe & Shirley Varese; Eugene F. Howell, et ux (2); Robert C. Kramer; ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ruth E. Blake; Thurl Wayne Jones; LEASE NO: _____ ACREAGE: 0.19971; 0.16319; 41.425; 191.5; 81.33; 11.318; 5.493; 47.016; 25.189; 23.964; 29.806; 3.0; 6.39; 0.19322; 0.21657; 0.1951; 0.16751; 0.33621
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 6,900' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,450' 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



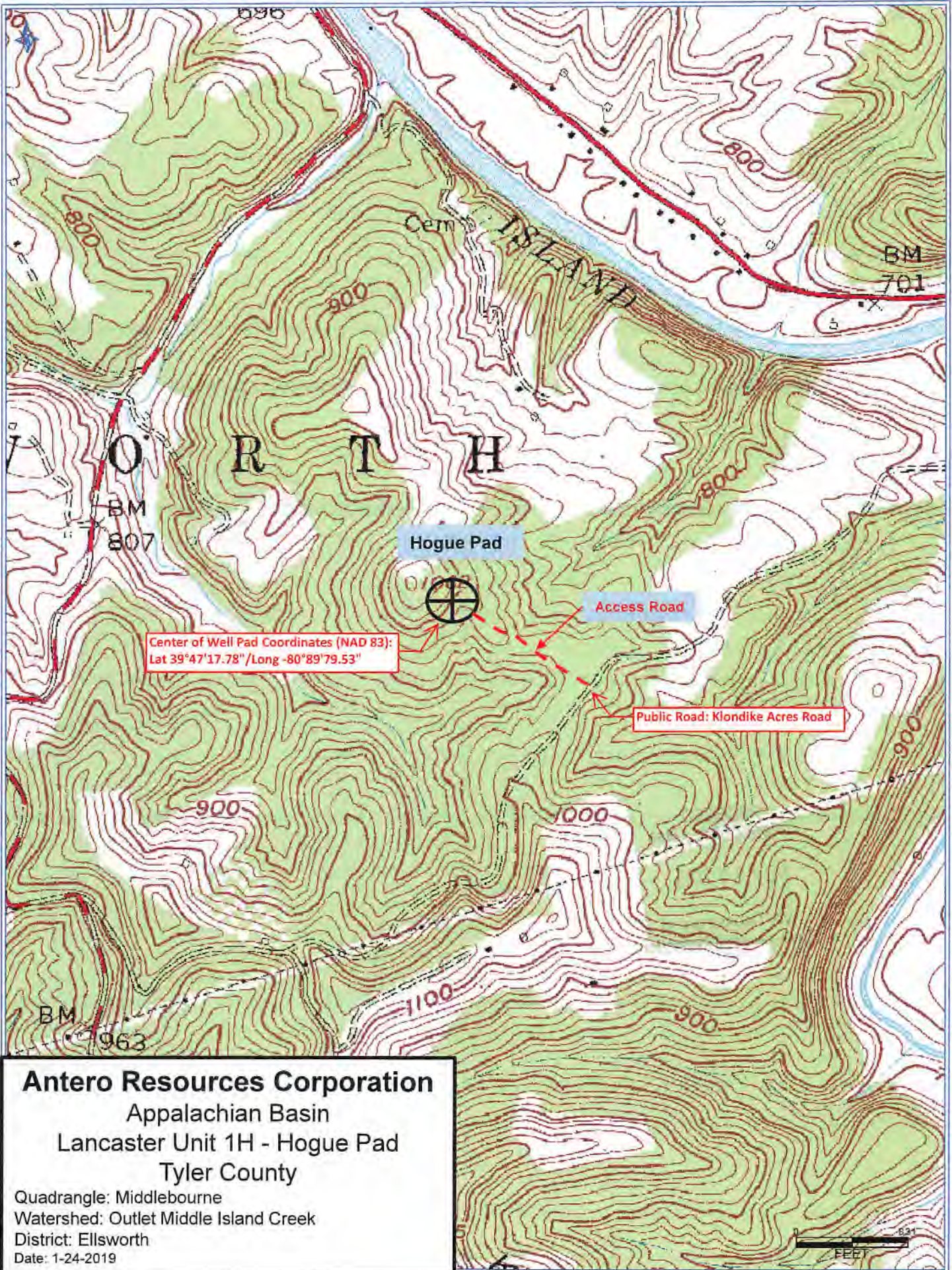
FILE NO: 11-54-E-19
 DRAWING NO: Lancaster Unit 1H Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

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

DATE: November 21, 2019
 OPERATOR'S WELL NO. Lancaster 1H
 API WELL NO. 4709502474
 47 - 095 - 02474
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 Proposed 1,014.5'
 LOCATION: ELEVATION: Existing 1,033' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 0.19971; 0.16319;
 DISTRICT: Ellsworth Brenda Lee Oyster (2); Carolyn Westfall; Earnestine Pelikan; Rodney Mack Hayes (2); Earl E. Turner; COUNTY: Tyler 41.425; 191.5; 81.33;
 SURFACE OWNER: Michael J. & Melinda R. Hogue Charles E. Anderson, et ux; Earnestine Pelikan & David Leasure; 11.318; 5.493;
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ruth E. Blake; Thurl Wayne Jones; LEASE NO: ACREAGE: 192.0 47.016; 25.189;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION 23.964; 29.806; 3.0;
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 6.39; 0.19322;
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,450' MD 0.21657; 0.1951;
 0.16751; 0.33621

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



Antero Resources Corporation
Appalachian Basin
Lancaster Unit 1H - Hogue Pad
Tyler County

Quadrangle: Middlebourne
Watershed: Outlet Middle Island Creek
District: Ellsworth
Date: 1-24-2019

