

5,150' to Bottom Hole

6,650' to Top Hole

LATITUDE 39 - 30 - 00

LONGITUDE 80 - 52 - 30

10,234' to Top Hole

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.)
- Corporation Line

Antero Resources
Well No. Kramer Unit 1H

Antero Resources Corporation



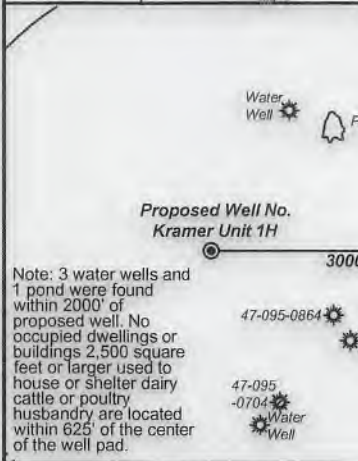
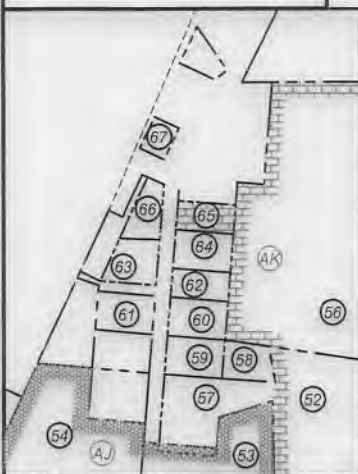
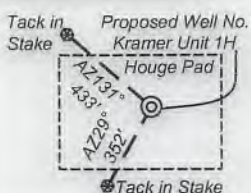
	Bearing	Dist.
L1	S 49°48' E	1,404.1'
L2	S 28°29' E	1,520.4'
L3	N 71°13' W	887.9'
L4	N 06°38' W	1,473.5'
L5	S 81°07' E	2,499.8'

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Kramer Unit 1H Top Hole coordinates are
N: 356,955.94' Latitude: 39°28'17.84"
E: 1,605,358.02' Longitude: 80°53'52.79"
Bottom Hole coordinates are
N: 359,528.74' Latitude: 39°28'43.50"
E: 1,606,858.37' Longitude: 80°53'34.17"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,369,128.939m N: 4,369,920.396m
E: 505,788.207m E: 509,232.207m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

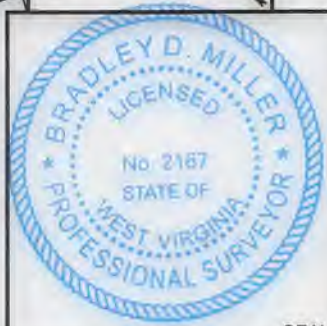
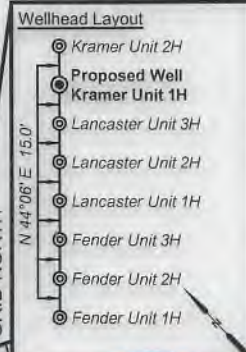
Notes:
Well No. Kramer Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,333,669.76'
E: 1,669,201.87'
Point of Entry Coordinates
N: 14,333,325.35'
E: 1,671,677.01'
Bottom Hole Coordinates
N: 14,336,266.36'
E: 1,670,658.57'



Well Location References



Note: 3 water wells and 1 pond 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 625' of the center of the well pad.



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: 15-54-E-19
DRAWING NO: Kramer 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: November 21, 2019
OPERATOR'S WELL NO. Kramer 1H
API WELL NO
47 - 095 - 02673
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
DISTRICT: Ellsworth COUNTY: Tyler
SURFACE OWNER: Michael J. & Melinda R. Hogue Barbara K. Davis; WV Division of Natural Resources; ACREAGE: 192.0
ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; LEASE NO: ACREAGE: 9.178; 28.54; 1.46; 191.5; 81.33; 310.393;
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: 13,000' MD

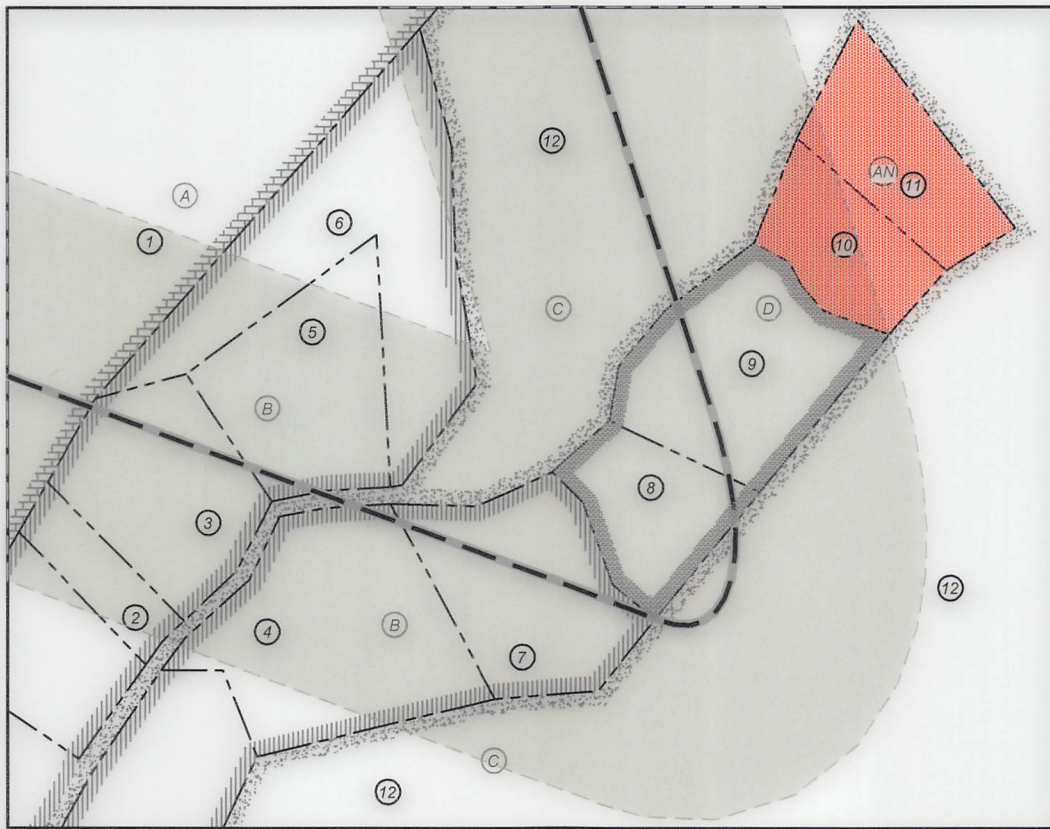
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

**Antero Resources
Well No. Kramer Unit 1H**

Antero Resources Corporation

Page 2 of 3

ID	TM/Par	Owner	Bk/Pg	Acres	ID	TM/Par	Owner	Bk/Pg	Acres
1	20/108	Michael J. & Melinda R. Hogue	348/404	192.00	37	20/71	Perry L. & Jackie L. Weekley	370/145	4
2	26/46.6	Camille Patera	296/247	1.702	38	20/70	Nina Wise	WB25/700	3.91
3	26/46.9	Eugene B Jr & Carol A Johnson	351/60	5.00	39	20/69	Jerry, Michelle, & Justin Williams	440/471	1.5
4	26/46.7	Camille Patera	296/247	7.32	40	20/68	Barbara J. Davis	WB30/311	2.09
5	26/46.2	Robert E Lee II & Chasity L Pittman	408/122	5.135	41	20-67	William M. & Janet S. Baker	175/391	2.10
6	26/46.14	Jay-Bee Production Company	420/97	8.69	42	20/60.1	Robert Kocher	358/343	0.049
7	26/46.3	Timothy Kanz	440/24	5.4	43	20/60	Robert R. & Rosalee J. Forrester	321/129	0.38
8	26/46.12	Charles R. & Bertha A. Holliday	306/665	3.238	44	20/58	Robert R. & Rosalee J. Forrester	321/129	0.46
9	26/46.13	Charles R. & Bertha A. Holliday	306/665	5.94	45	20/59.1	Robert R & Rosalee J Forrester	335/826	0.047
10	26/46.22	Eugene B. Johnson, Sr., et ux	351/247	2.924	46	20/59	Robert Kocher	358/343	4.19
11	26/46.23	Eugene B. Johnson, Sr., et ux	351/247	3.598	47	20-55	Mary Alice Hickman	AR36/289	71.34
12	26-46	Jay-Bee Production Company	420/97	286.04	48	20-54	William M. & Janet S. Baker	175/391	100.45
13	20-65.1	James S. & Ghislaine S. Suter	273/557	1.58	49	20/54.1	Bradley Baker	355/823	2
14	21-63	James S. & Ghislaine S. Suter	229/658	0.44	50	20/53	Clara Negie	344/51	8
15	20-82	James S. & Ghislaine S. Suter	211/449	0.7	51	20/51.6	Brian & Sarah Carpenter	342/467	24.92
16	20-62.1	James S. & Ghislaine S. Suter	287/509	0.83	52	20-33	Lance M. & Tina R. Hickman	396/561	77.84
17	20-66	Jeff T. Hoover	313/120	1.0	53	20/23	Michael & Chris Lenz	313/216	4.595
18	20/65.1	James S & Ghislane Suter	273/557	1.58	54	20/23.1	Michael & Chris Lenz	323/732	5.517
19	20/79	Tamara Wilcox & Steven L Conrad	361/205	0.682	55	20-10	Connie L. Hickman, et al	341/209	41
20	20/78	Joseph C. Snyder Jr.	397/838	0.85	56	20/33.3	Richard Fonner	415/796	18.5
21	20/77	Joseph C. Snyder Jr.	397/838	1.272	57	20/25	Marshal McKinney	208/650	0.92
22	20/76	Stephen D. & Brenda J. Ashley	211/429	2.74	58	20/33.2	Homer Matthews	284/375	0.28
23	20/64	Randy Murray & Julia A. Murray	WB37/375	0.99	59	20/32	Homer Lee Matthews	176/216	0.34
24	20/65	Kathy Sue Archer	336/138	6.85	60	20/31	Larry & Barbara Lee	211/179	0.34
25	20/64.1	Dylan Shane Murray	385/472	3.23	61	20/21	Nancy Mercer	WB32/425	0.34
26	20-62	Nancy Villers & Sara Fay Eskew	WB44/598	67.67	62	20/29.1	James Bembry	331/43	0.25
27	20/75	Ricky J. & Sharon S. Morris	285/17	1.47	63	20/27	Earl P. & Crucita Kendle	331/341	0.32
28	20/74	Barbara K. Davis	AR43/791	1.46	64	20/29	Maurine Hadley	167/69	0.34
29	20/73	John T & Catherine L. Burr	378/27	1.11	65	20/30	Donald & Susan Smith	321/165	0.26
30	20/72	John T & Catherine L. Burr	378/27	1.13	66	20/28	Victor & Lorraine Weekley	280/422	0.23
31	20/63.1	Mary A. Hickman	WB37/375	0.484	67	20/20	Melinda Sue George	351/520	0.14
32	20/63	Kimberly & George Eidel	353/298	4.786	68	20/33.1	Jerry & Jacqueline Brown	340/215	8
33	20/61	Mark Duane Hickman, et al	WB54/1	2.22	69	14/67	Tommy L. & Carolyn Williams	169/472	3.0
34	20-56.2	Lance M. & Tina R. Hickman	438/814	2.95	70	20/9	Marvin Gene Franklin	WB57/258	2.77
35	20-56.1	Lance M Hickman	393/85	16.405	71	20B-29	Connie Lee & Michael D. Hickman	251/264	0.41
36	20-56	Mary Alice Hickman	152/16	14.96					



FILE NO: 15-54-E-19
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 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV


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

DATE: November 21, 20 19
 OPERATOR'S WELL NO. Kramer 1H
 API WELL NO
47 - 095 - 02673
 STATE COUNTY PERMIT

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 Proposed 1,014.5'
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 SURFACE OWNER: Michael J. & Melinda R. Hogue Barbara K. Davis; WV Division of Natural Resources; ACREAGE: 192.0
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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

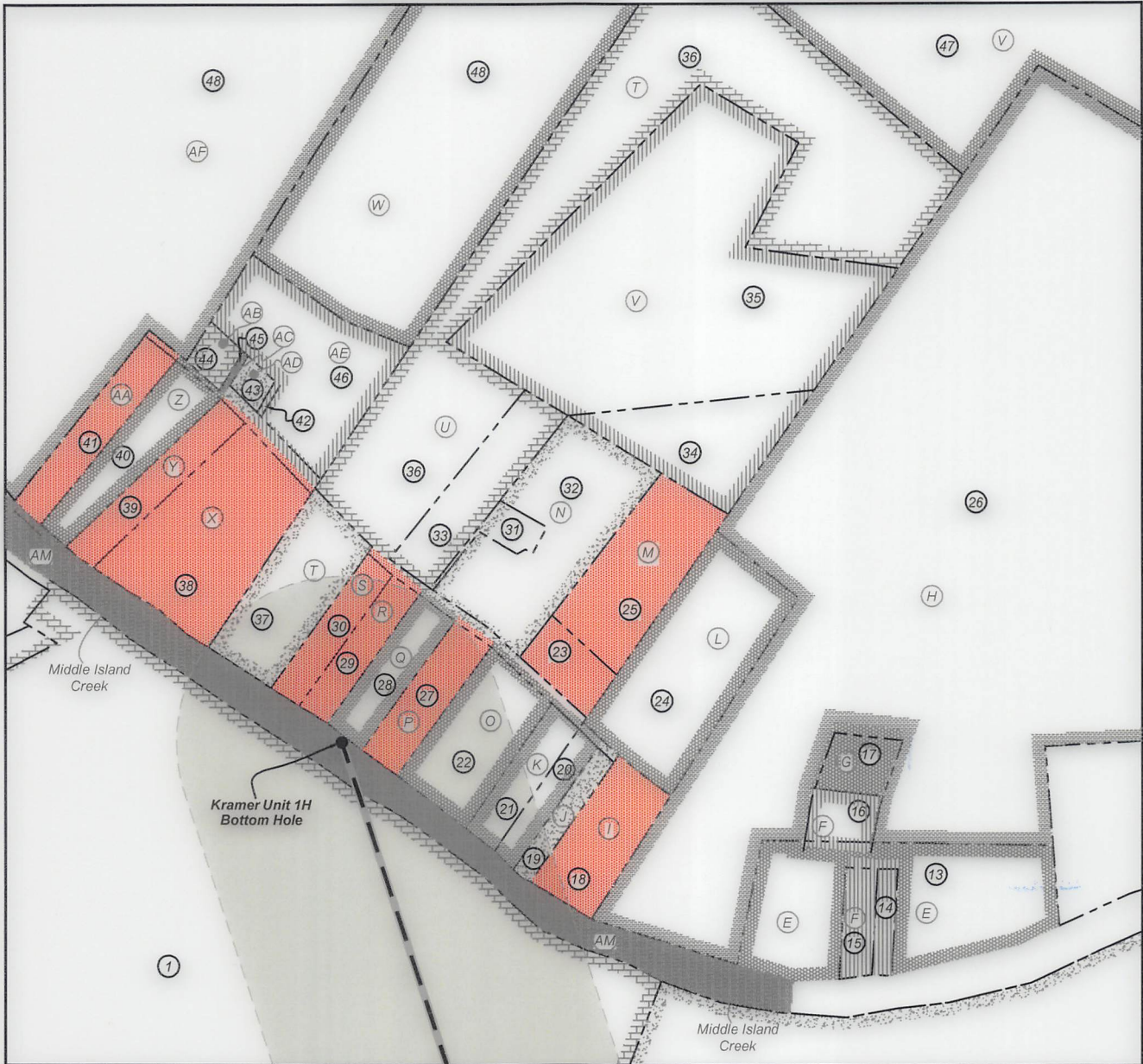
**Antero Resources
Well No. Kramer Unit 1H**

Antero Resources Corporation

Page 3 of 3

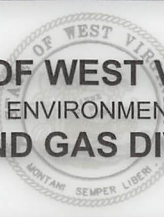
Leases	
A	Michael J. & Melinda R. Hogue
B	James F. Doan, et ux
C	Ridgetop Capital LP
D	James F. Doan, et ux
E	James S. Sutter
F	James S. Sutter
G	Jeff T. Hoover
H	Nancy Ann Villers
I	OPEN
J	Steven L. Conrad, et ux
K	Kendra K. Cottrill Wyke
L	Mary Alice Hickman Estate
M	OPEN
N	Norman C. Twyman
O	Stephen D. Ashley, et ux
P	OPEN
Q	Barbara K. Davis
R	OPEN
S	OPEN
T	Perry L. Weekley, et ux

Leases	
U	Mary A. Hickman
V	Lance M. Hickman
W	Mary Alice Hickman
X	OPEN
Y	OPEN
Z	Barbara J. Davis
AA	OPEN
AB	Rosalee J. Forrester
AC	Rosalee J. Forrester
AD	Rosalee J. Forrester
AE	Robert J. Kocher
AF	William M. Baker, et ux
AG	Bradley Baker
AH	Clara Jane Glover
AI	Brian D. Carpenter, et ux
AJ	Michael A. Lenz, et ux
AK	Richard A. Fonner, et ux
AL	Connie L. Hickman
AM	WV Division of Natural Resources
AN	Open



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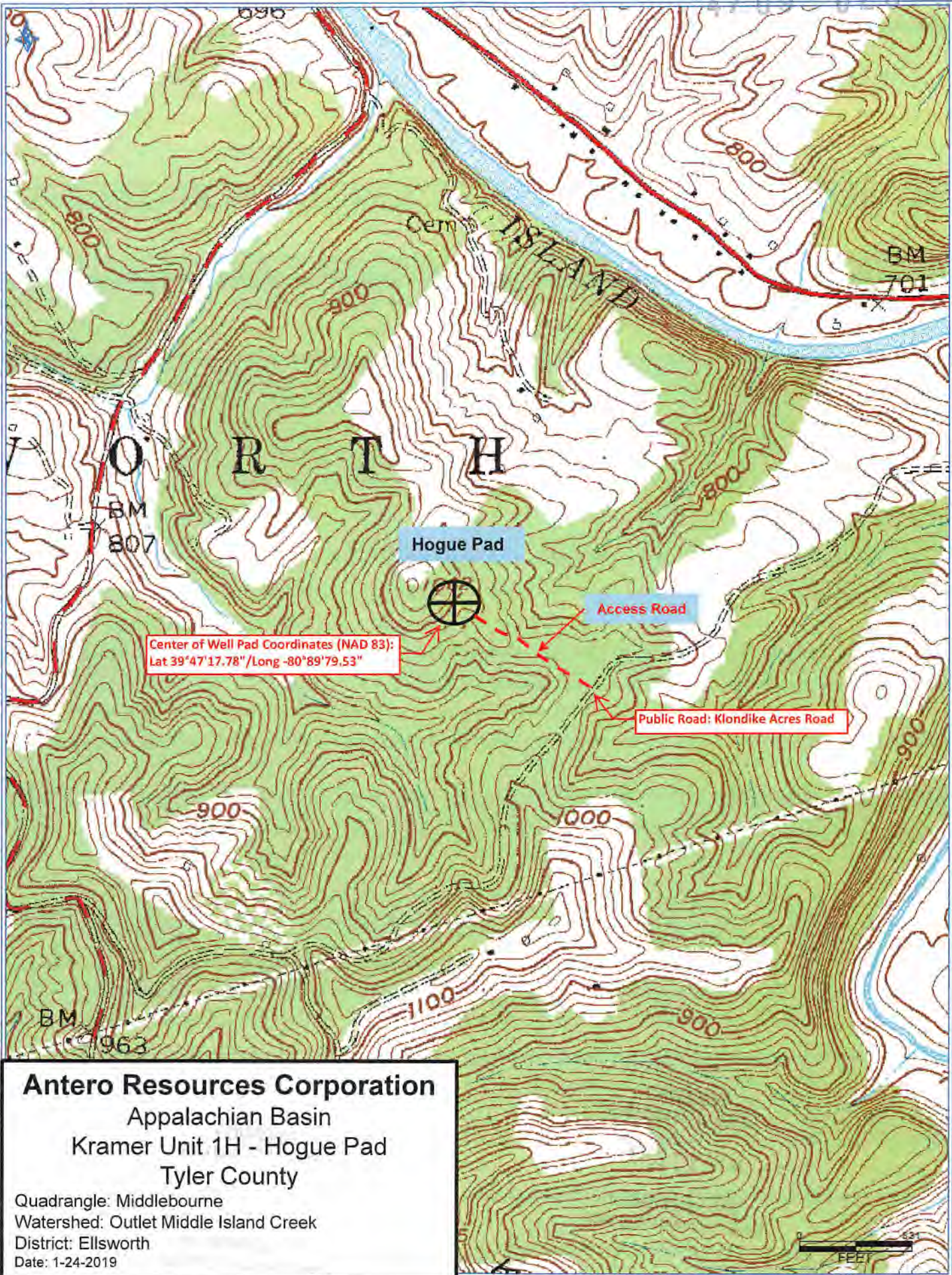
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Antero Resources Corporation
 Appalachian Basin
 Kramer Unit 1H - Hogue Pad
 Tyler County

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

