

Antero Resources
Well No. Loraina 2H
 As-Drilled
 Antero Resources Corporation



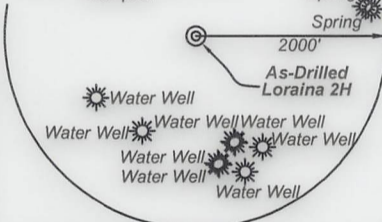
Loraina Unit 2H
 POE Coordinates
 West Virginia
 Coordinate System
 of 1927, North Zone
 N: 367,192.66'
 E: 1,618,071.39'
 Latitude: 39°30'00.94"
 Longitude: 80°51'12.66"
 UTM Zone 17, NAD 1983
 N: 4,372,312.363m
 E: 512,609.310m

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.

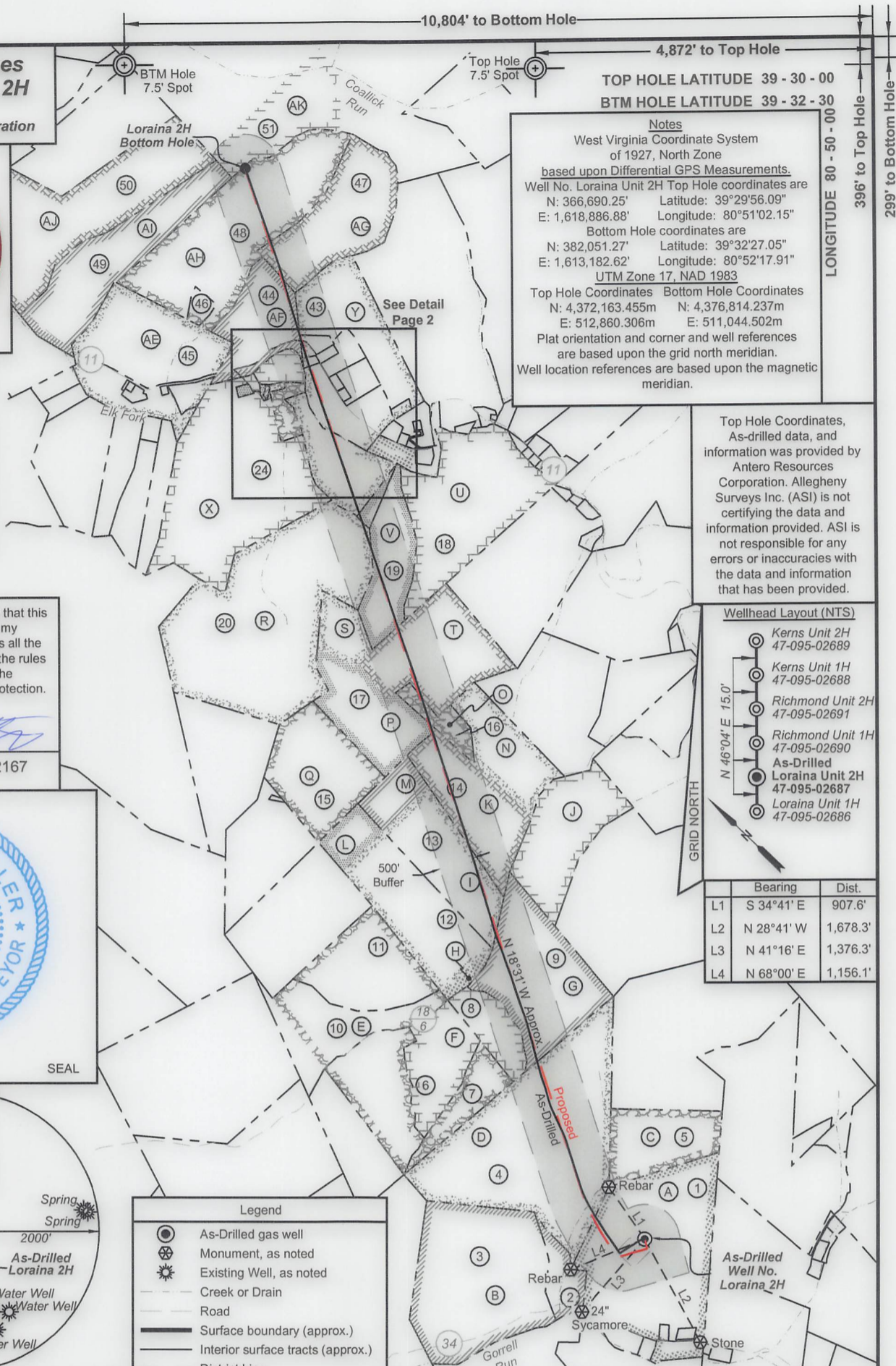
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Note: 8 water wells and 2 springs
 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.



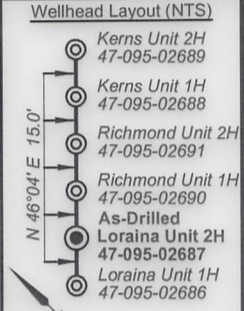
Legend	
	As-Drilled gas well
	Monument, as noted
	Existing Well, as noted
	Creek or Drain
	Road
	Surface boundary (approx.)
	Interior surface tracts (approx.)
	District Line



TOP HOLE LATITUDE 39 - 30 - 00
BTM HOLE LATITUDE 39 - 32 - 30
LONGITUDE 80 - 50 - 00

Notes
 West Virginia Coordinate System
 of 1927, North Zone
 based upon Differential GPS Measurements.
 Well No. Loraina Unit 2H Top Hole coordinates are
 N: 366,690.25' Latitude: 39°29'56.09"
 E: 1,618,886.88' Longitude: 80°51'02.15"
 Bottom Hole coordinates are
 N: 382,051.27' Latitude: 39°32'27.05"
 E: 1,613,182.62' Longitude: 80°52'17.91"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,372,163.455m N: 4,376,814.237m
 E: 512,860.306m E: 511,044.502m
 Plat orientation and corner and well references
 are based upon the grid north meridian.
 Well location references are based upon the magnetic
 meridian.

Top Hole Coordinates,
 As-drilled data, and
 information was provided by
 Antero Resources
 Corporation. Allegheny
 Surveys Inc. (ASI) is not
 certifying the data and
 information provided. ASI is
 not responsible for any
 errors or inaccuracies with
 the data and information that
 has been provided.



	Bearing	Dist.
L1	S 34°41' E	907.6'
L2	N 28°41' W	1,678.3'
L3	N 41°16' E	1,376.3'
L4	N 68°00' E	1,156.1'

FILE NO: 43-54-E-19
 DRAWING NO: Loraina 2H As-Drilled
 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: December 28 2020
 OPERATOR'S WELL NO. Loraina 2H
 API WELL NO
 47 - 095 - 02687
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,004' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
 DISTRICT: Ellsworth Patrica Ann Heintzman; Rockford Energy, LLC; Mary Carol Chamberlain;
 Roger D. Blizzard; Ridgewood Development, LLC; Donald Lee Sharps; Nina & Philip Whitefield;
 SURFACE OWNER: & Ruth E. Spencer Patsy J. Oliverio; A. Dewayne Matthews; Kevin S. Goff, et ux;
 BRC Appalachian Minerals I, LLC; Sandra E. Merrigan;
 ROYALTY OWNER: Heritage Resources Marcellus Minerals, LLC; B. Fred Hill Jr.; Reita Jane Hall; LEASE NO: ACREAGE: 32.28; 53.75; 76.25

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,403' TVD
 22,705' 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




ID	TM/Par	Owner	Bk/Pg	Acres
1	15-33	Roger D. Blizzard, et al	340/170	102.62
2	15-34.1	Randy & Pamela L. Lancaster	370/776	11.417
3	15-34	Michael & Bente H. Biddle	294/537	82.34
4	15-30	Thomas C. Grinage, et ux	458/73	124.078
5	15-31	Roger D. Blizzard, et al	342/782	25
6	15-27	Ronald & Martha J. Greathouse	217/571	26
7	15-28	Charles Loy Jr., et al	379/140	9
8	15-29	Ronald & Martha J. Greathouse	214/124	15.75
9	15-12	Roger Matthes	319/22	61
10	15-15	David Mendenhall, et al	284/4	50
11	15-15.1	Robert M. Feldmeier, et ux	575/690	30
12	15-14	John W. & Leah D. Starkey	345/93	50.75
13	15-5	Earl H., Jr. & Bernadette Warriner	306/141	48.5
14	15-6	James F. & Connie L. Billiter, et al	288/325	59.5
15	15-2	John W. Eddy, Estate	71/13	49
16	10-59	Goldie A. Mathews	115/485	10.08
17	10-60	J.S. & Goldie A. Matthews	129/58	101.14
18	10-43	Kevin S. & Melinda S. Goff	431/799	100
19	10-42	Kevin S. & Melinda S. Goff	431/799	25.5
20	10-65	Daniel R. Deetz, et al	321/713	131.94
21	10-41	Kevin S. & Melinda S. Goff	431/799	2.66
22	10-36	Randy Lee & Mary Lou Michael	230/499	24.65
23	10-37.4	Kevin S. & Melinda S. Goff	425/830	7.5
24	10-35	Michael E. Neff	299/601	105.56
25	10-35.1	James H. & Mildred G. Bassett	220/370	8.12
26	10-15	Kevin S. Goff & Melinda S. Goff	423/695	18.50
27	10-16	Ruby M. Watson	256/45	0.488

ID	TM/Par	Owner	Bk/Pg	Acres
28	10-15.5	Ruby M. Watson	289/359	0.0292
29	10-15.7	Frank W., Jr. & Ruby M. Watson	317/383	5.226
30	10-15.4	Frank W., Jr. & Ruby M. Watson	343/309	0.65
31	10-35.2	Robert R. Bassett	269/703	0.48
32	10-35.6	Joseph C., Jr. & Vicky G. Snyder	317/551	0.24
33	10-35.3	James H. & Mildred G. Bassett	273/538	0.39
34	10-35.4	Mary Jane Woofler	319/73	0.75
35	10-35.5	Michael E. Neff	281/543	0.76
36	10-20	James & Mildred Bassett	311/637	0.72
37	10-15.3	Robert L. & Teresa Eddy	284/496	0.64
38	10-17	Sandra K. Metz	342/153	0.89
39	10-15.8	Frank & Ruby Watson	427/47	5.229
40	10-18	Wendy S. Gustavich	331/365	1.9
41	10-15.2	Sandra Metz	246/320	0.95
42	10-19.1	Sandra K. Metz	380/98	2.76
43	10-15.6	Wayne H. & Violet Mercer	317/378	35.82
44	10-19	James Bassett & Mildred Bassett	264/548	29.52
45	10-22	Michael V. and Debra K. Smith	335/619	59.42
46	10-21	Patricia Ann Heintzman	W13/384	3
47	10-3	Kevin S. & Melinda S. Goff	597/808	53.75
48	10-2	Patricia Ann Heintzman	W13/384	73.26
49	10-1	Patricia Ann Heintzman	150/15	48.50
50	10-64	John E Roberts	W30/108	100
51	6-36	Dennis & Clista Heintzman	297/640	417.6



Leases	
A	Heritage Resources Marcellus Minerals, LLC
B	Cliff & Virginia Perkins Irrevocable Trust
C	Jerry R. Brown
D	B. Fred Hill Jr.
E	Karen F. Quinn
F	United Spinal Association
G	Reita Jane Hall
H	John W. Starkey, et ux
I	BRC Appalachian Mineral I LLC
J	Dale E. Pipes
K	Sandra E. Merrigan
L	John W. Kerns Heir Trust
M	Allen Smith
N	David E. Bowyer
O	Rockford Energy, LLC
P	Mary Carol Chamberlain
Q	Bob Christen
R	Patsy J. Oliverio
S	Michael Allen Eddy
T	A. DeWayne Matthews
U	Susan Ertel
V	Kevin S. Goff, et ux
W	Kevin S. Goff, et ux
X	Michael E. Neff
Y	Ridgewood Development LLC
Z	James H. Bassett, et ux
AA	Richard Basset
AB	Melvin L. Nichols, et ux
AC	James H. Basset, et ux
AE	Paul A., Jr. & Phyllis V. Marks
AF	Donald Lee Sharps
AG	Nina & Phillip Whitefield
AH	Patricia Ann Heintzman
AI	Patricia Ann Heintzman
AJ	John E. Roberts
AK	Norma Smith

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 DISTRICT: Ellsworth COUNTY: Tyler 07/21/2023
 SURFACE OWNER: Roger D. Blizzard; Patricia Ann Heintzman; Rockford Energy, LLC; Mary Carol Chamberlain; 92.08; 23.578;
 & Ruth E. Spencer; Ridgewood Development, LLC; Donald Lee Sharps; Nina & Philip Whitefield; 68.5; 78; 39; 10.08;
 Patsy J. Oliverio; A. Dewayne Matthews; Kevin S. Goff, et ux; 131.94; 50.13542;
 BRC Appalachian Minerals I, LLC; Sandra E. Merrigan; 34.102; 30.7625; 100;
 ROYALTY OWNER: Heritage Resources Marcellus Minerals, LLC; B. Fred Hill Jr.; Reita Jane Hall; LEASE NO: ACREAGE: 32.28; 53.75; 76.25

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