

8,428' to Bottom Hole  
4,840' to Top Hole

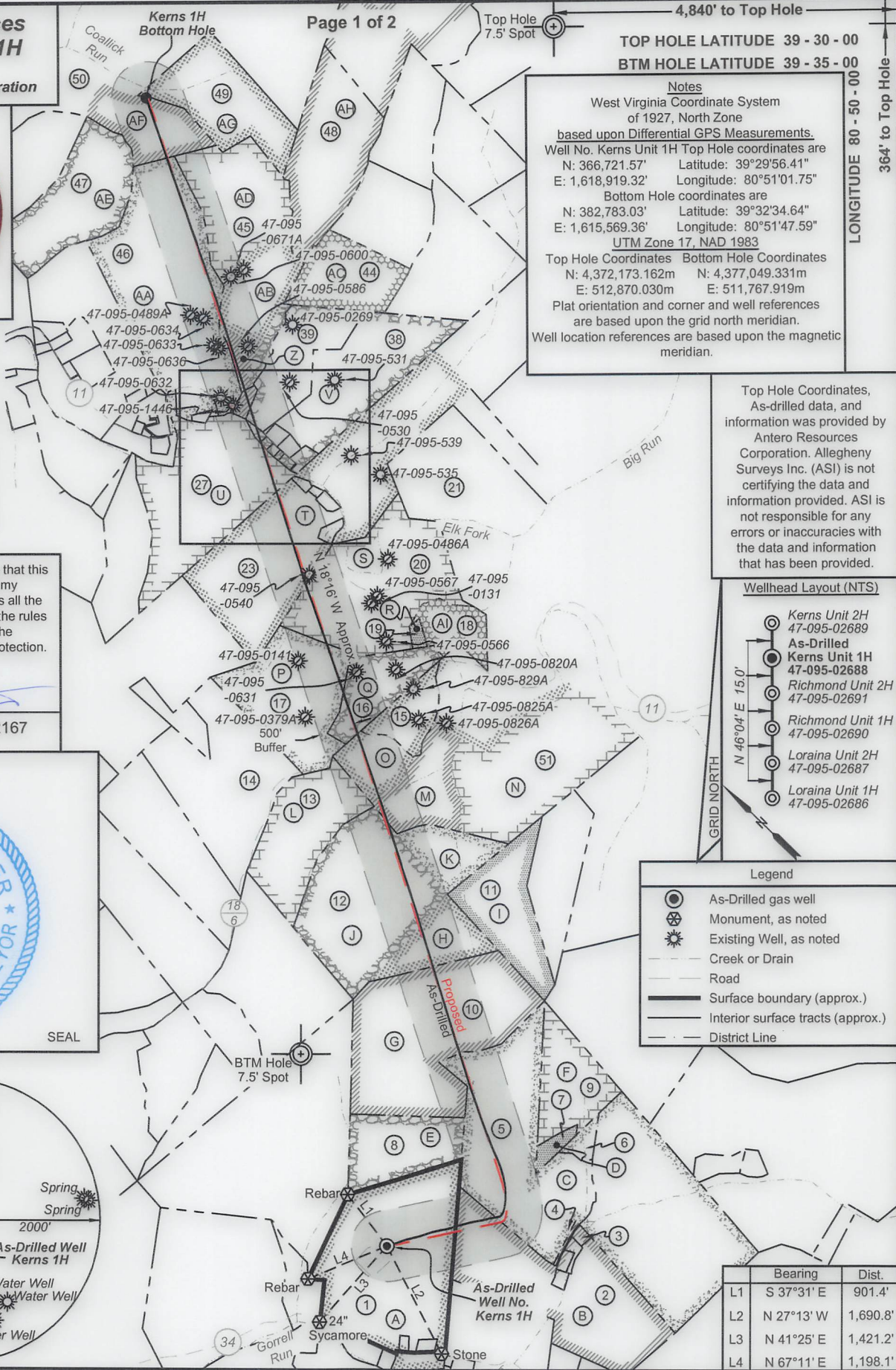
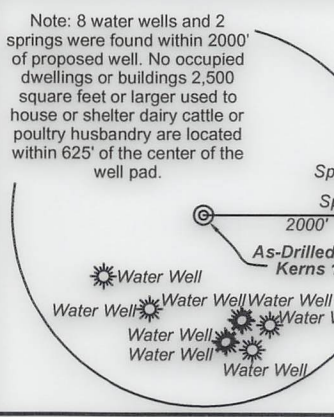
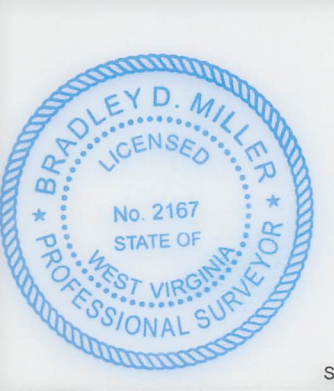
**Antero Resources**  
**Well No. Kerns 1H**  
As-Drilled  
Antero Resources Corporation



Kerns Unit 1H  
POE Coordinates  
West Virginia  
Coordinate System  
of 1927, North Zone  
N: 367,880.65'  
E: 1,620,491.77'  
Latitude: 39°30'08.10"  
Longitude: 80°50'41.91"  
UTM Zone 17, NAD 1983  
N: 4,372,534.294m  
E: 513,343.197m

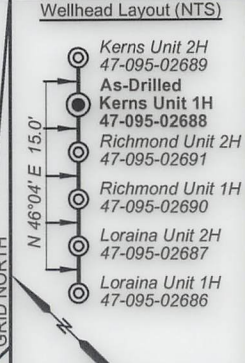
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



**Notes**  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Well No. Kerns Unit 1H Top Hole coordinates are  
N: 366,721.57' Latitude: 39°29'56.41"  
E: 1,618,919.32' Longitude: 80°51'01.75"  
Bottom Hole coordinates are  
N: 382,783.03' Latitude: 39°32'34.64"  
E: 1,615,569.36' Longitude: 80°51'47.59"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,372,173.162m N: 4,377,049.331m  
E: 512,870.030m E: 511,767.919m  
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.



**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

	Bearing	Dist.
L1	S 37°31' E	901.4'
L2	N 27°13' W	1,690.8'
L3	N 41°25' E	1,421.2'
L4	N 67°11' E	1,198.1'

FILE NO: 46-54-E-19  
DRAWING NO: Kerns 1H 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. Kerns 1H  
API WELL NO  
47 - 095 - 02688  
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 90.168; 79.919; 177; 101.38; 20;  
DISTRICT: Ellsworth BRC Appalachian Minerals I, LLC; Nina A. Whitefield; J&N Management Enterprises, LLC COUNTY: Tyler 75.47; 29.1151; 70; 66.65;  
SURFACE OWNER: & Ruth E. Spencer Roger D. Blizzard Charles Eugene Friend, et ux; Allen Smith; Susan Ertel; B&C Oil and Gas Company; ACREAGE: 90.17 22.1188; 68.86; 119; 100; 100; 9.0;  
ROYALTY OWNER: Heritage Resources-Marcellus Minerals, LLC; William S. Nash, et al; Helen E. Boggs; Dennis M. Strode LEASE NO: ACREAGE: 29.13; 100; 30

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: 22,923' MD 6,425' TVD

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

14,707' to Bottom Hole

LONGITUDE 80 - 50 - 00  
364' to Top Hole





ID	TM/Par	Owner	Bk/Pg	Acres
1	15-33	Roger D. Blizzard, et al	340/170	90.17
2	15-32	William S. & Opal Marie Nash	335/187	76.92
3	16-54	David M. & Amanda B. Trimble	447/110	1.00
4	16-60	Rodney & Candis Nash	378/815	0.56
5	15-38	Rodney A. & Candis L. Nash	351/701	85.48
6	16-44.1	Carl Straight	543/598	3.70
7	16-23.1	Bruce Winkelmann	334/234	3.30
8	15-31	Roger D. Blizzard, et al	342/782	25.00
9	16-23	Joseph L. & Karen Sitko	314/462	29.70
10	15-30.1	Roger D. Blizzard, et al	343/427	101.38
11	15-10	Darrell J. Sole	617/739	34.13
12	15-11	Roger Matthes, et al	528/764	115.47
13	15-7	Roger Matthes, et al	528/764	41.72
14	15-6	Eric D. Wykert, et al	632/832	59.50
15	15-8	William A. & Joyce L. Caputo	245/485	14.00
16	10-56	Mary K. Neff	413/731	22.06
17	10-58	Jeffery A. & Cheryl A. Ferrell	325/334	66.66
18	10-54	Michael W. & Brenda S. Schmidt	244/409	14.06
19	10-55	Shirley E. Neff	218/46	1.47
20	10-57	Charles E. & Laura L. Friend	334/836	68.86
21	10-49	Charles E. & Laura Lynn Friend	334/839	71.52
22	10-48	Charles E. & Laura Lynn Friend	334/839	1.40
23	10-46	Opal Carol Tallman	282/383	115.52
24	10-46.1	Opal Carol Tallman	282/383	1.36
25	10-46.2	William F. Ferrell	W47/233	0.50

ID	TM/Par	Owner	Bk/Pg	Acres
26	10-47	William F. Ferrell	W47/233	0.72
27	10-43	Kevin S. & Melinda S. Goff	431/799	100.00
28	10-45.3	Patricia Spencer	345/134	0.04
29	10-45.1	Richard S. & Clara Sue Baker	345/134	0.65
30	10-43.1	Patricia Spencer	345/134	1.76
31	10-45	Richard S. & Clara Sue Baker	342/536	0.25
32	10-45.2	Michael E. & Mary B. Neff	532/812	0.71
33	10-44	James R. Dawson	AR48/228	0.40
34	10-10.3	Paul Richard Baker	612/603	1.32
35	10-10.1	William F. & Paula S. Ferrell	312/454	1.23
36	10-44.1	Nile Dean Harris	290/234	0.71
37	10-10.2	Sandra K. Metz	376/458	0.15
38	10-10	Ronald D. & Sandra Sue Martin	344/279	58.36
39	10-12	Sandra K. Metz	376/458	30.50
40	10-13.1	Brian E. & Barbara J. Courtney	377/792	1.90
41	10-14.1	Triad Energy Corp. of WV Inc.	329/604	1.00
42	10-14.3	Elk Fork Church	299/126	1.49
43	10-14.2	Triad Energy Corp. of WV Inc.	329/604	0.17
44	10-11	J.R. Schamp	318/543	30.00
45	10-13	Kevin S. & Melinda S. Goff	597/808	87.19
46	10-14	Kevin S. & Melinda S. Goff	597/808	96.84
47	10-3	Kevin S. & Melinda S. Goff	597/808	53.75
48	10-4	Stefan L. & Alberta B. Smolski	356/467	56.08
49	6-49	Dennis & Clista A. Heintzman	297/637	45.00
50	6-36	Dennis & Clista Heintzman	297/640	417.6
51	15-9	Antero Midstream LLC	586/544	153.90



Leases	
A	Heritage Resources Marcellus Minerals, LLC
B	William S. Nash, et al
C	Helen E. Boggs
D	Bruce Winkelmann
E	Jerry R. Brown
F	Joseph L. Silko, et ux
G	Roger D. Blizzard
H	Samuel Rogers
I	BRC Appalachian Mineral I LLC
J	Linda Lou Moore
K	James Matthes
L	Dale E. Pipes
M	Trustees of James L. Newsom Revocable Trust
N	Will E. Morris Heirs Trust
O	Joseph Shoemaker
P	J&N Management Enterprises, LLC
Q	Kenneth R. Barker
R	Shirley E. Neff
S	Charles Eugene Friend, et ux
T	Allen Smith
U	Susan Ertel
V	B&C Oil and Gas Company
Y	Elk Fork Church of Christ
Z	Will E. Morris Heirs
AA	Dennis M. Strode
AB	BRC Appalachian Minerals I, LLC
AC	Sharon Rose Faini
AD	Bounty Minerals, LLC
AE	Nina & Phillip Whitefield
AF	Nina Whitefield
AG	Dennis R. & Clista Heintzman
AH	Rose Enterprises, LLC
AI	Michael W. Schmidt, et ux

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

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 API WELL NO  
 47 - 095 - 02688  
 STATE COUNTY PERMIT

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 LEASE NO: \_\_\_\_\_ ACREAGE: \_\_\_\_\_

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