

10,589' to Bottom Hole

4,218' to Top Hole

TOP HOLE LATITUDE 39 - 22 - 30
BTM HOLE LATITUDE 39 - 20 - 00

TOP HOLE LONGITUDE 80 - 47 - 30
BTM HOLE LONGITUDE 80 - 45 - 00

15,063' to Top Hole

GRID NORTH

11,056' to Bottom Hole

Antero Resources
Well No. Michels Unit 1H
As-Drilled Plat
Antero Resources Corporation



Note: It appears 13 water wells, 7 springs and a pond were found within 2000' of proposed well. No occupied dwellings and no 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. See well location references for details.



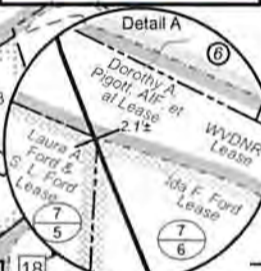
TM/Par	Owner	Bk/Pg	Acres
1	Antero Resources Corp.	349/553	25.90
2	Antero Resources Corp.	358/562	9.90
3	Charles & Carol Cottrill	256/479	3.00
4	Addie Marie Leadmon	250/84	19.84
5	Mason Memorial Park	96/487	6.55
6	Robert P. Holden & Sherri M. Bailey	301/464	6.14
7	Robert P. Holden & Sherri M. Bailey	301/466	5.49
8	Lucia P. Anderson	267/687	Lot 11
9	Michael C. & Mildred R. Sheets	358/75	Lot 199
10	Jon, Sandra, Jared Bonnell	254/703	Lot 198
11	Richard David Williams	250/79	Lot 197
12	Sandra Sue Pristas	262/362	Lot 196
13	Sandra Sue Pristas	262/362	Lot 195
14	Jeffrey T. Harvey	287/338	Lot 194
15	Mark W. & Lisa D. Ball	355/648	Lot 193
16	Lucia P. Anderson	267/687	Lot 12
17	Ronald M. & Karen M. Owens	330/488	Lot 13
18	Ronald M. & Karen M. Owens	297/241	Lot 14
19	Elizabeth Anne Spencer, et al	AP 41/583	1.43
20	Elizabeth Anne Spencer, et al	AP 41/583	0.35



Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Michels Unit 1H Top Hole coordinates are
N: 306,254.23' Longitude: 39°20'00.52"
E: 1,630,647.99' Longitude: 80°48'20.93"
Bottom Hole coordinates are
N: 294,920.80' Longitude: 39°18'09.28"
E: 1,635,843.91' Longitude: 80°47'12.74"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,353,811.301m N: 4,350,385.003m
E: 516,750.637m E: 518,391.361m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

- Leases**
- A. Champion Agate Co., Inc. Lease
 - B. Champion Agate Co., Inc. Lease
 - C. Andrew Lett, et ux Lease
 - D. Champion Agate Co., Inc. Lease

Top Hole Coordinates verified by survey grade GPS. 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.

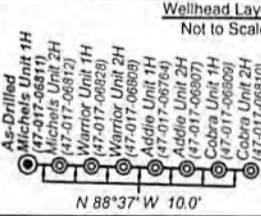


- Legend**
- Proposed gas well
 - Found corner, as noted
 - Existing Well, as noted
 - Creek or Drain
 - Existing Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

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

Bearing	Dist.
L1 S 75°33' E	1051.3'
L2 N 20°46' E	1159.8'
L3 S 68°16' W	534.0'
L4 S 50°29' W	698.1'



FILE NO: 53-30-WU-15
DRAWING NO: Michels 1H As-Drilled 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: October 5 20 18
OPERATOR'S WELL NO. Michels Unit 1H
API WELL NO
47 - 017 - 06811
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 891' As-Drilled WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
DISTRICT: West Union COUNTY: Doddridge

SURFACE OWNER: Antero Resources Corp. ACREAGE: 25.9
ROYALTY OWNER: S. N. Montgomery, et ux; Black Gold Group, LTD; Dorothy A. Pigott, AIF, et al; J.C. Smith, Agent for Jacob Smith Estate; Ida F. Ford (2); Joseph Freeman, et ux LEASE NO: ACREAGE: 600; 58.70; 82.21

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: 19,040' 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