

1,085' to Bottom Hole

4,228' to Top Hole

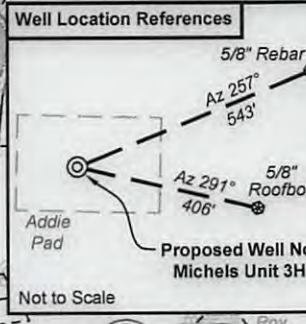
TOP HOLE LATITUDE 39 - 22 - 30  
BTM HOLE LATITUDE 39 - 20 - 00

Antero Resources  
Well No. Michels Unit 3H  
Antero Resources Corporation



**Notes:**  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Michels Unit 3H Top Hole coordinates are  
N: 306,254.57' Latitude: 39°20'00.53"  
E: 1,630,638.02' Longitude: 80°48'21.05"  
Bottom Hole coordinates are  
N: 301,658.81' Latitude: 39°19'15.52"  
E: 1,633,562.92' Longitude: 80°47'42.99"  
**UTM Zone 17, NAD 1983**  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,353,811.353m N: 4,352,426.137m  
E: 516,747.598m E: 517,662.028m  
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  
E. Claude L. Smith, et ux Lease



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.

(●) Denotes Location of Well on United States Topographic Maps

TMPAr	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	6.54
6	Robert P. Holden & Sherri M. Bailey	301/464	6.14
7	Elizabeth Anne Spencer, et al	AP 41/583	14.00
8	John C. Farr	205/192	0.4791
9	Marshall G. Tolliver	272/366	0.2404
10	Guy B., III & Cynthia K. Oldaker	279/125	0.2395
11	Guy B., III & Cynthia K. Oldaker	279/125	0.2378
12	Guy B. Oldaker, Jr., Trustee	149/68	0.2378
13	John S. & Sandra L. McKinney	282/89	0.2112
14	John & Sandra L. McKinney	WB 40/315	0.2112
15	Michelle D. Newton	360/468	0.2112
16	Freeman Cemetery	79/39	1.90
17	Masonic Memorial Park, Inc.	237/371	8.78
18	Andrew E. & Lona A. Lett	297/311	12.00
19	Rebecca H. Nicholson	248/185	2.29 Total
20	Barbara Travis & Sharon Weekley	WB 62/674	1.74 Total
21	Brandon Rogers	264/421	2.31 Total
22	Sharon K. & Paul D. Weekley	220/499	12.00
23	Genevieve V. Freeman	228/15	16.50

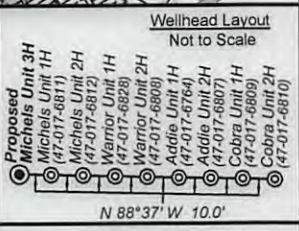
Bearing	Dist.
L1 S 75°26' E	1041.6'
L2 N 20°18' E	1156.6'
L3 Varies	1440.0'
L4 S 68°42' W	543.1'
L5 S 51°01' W	705.6'

**Notes:**  
Well No. Michels Unit 3H  
UTM Zone 17, NAD 1927  
Top Hole Coordinates  
N: 14,283,414.75'  
E: 1,695,315.41'  
Point of Entry Coordinates  
N: 14,283,577.69'  
E: 1,696,358.59'  
Bottom Hole Coordinates  
N: 14,278,870.01'  
E: 1,698,315.52'

**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.

*Kenneth J. Plum*  
Kenneth J. Plum, P.S. 2216



FILE NO: 53-30-WU-15  
DRAWING NO: Michels 3H 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: June 6 20 17  
OPERATOR'S WELL NO. Michels Unit 3H  
API WELL NO  
47 - 017 - 06852H/A  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built 891' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union COUNTY: Doddridge  
SURFACE OWNER: Antero Resources Corp. WV Division of Natural Resources  
ROYALTY OWNER: J.C. Smith, Agent for Jacob Smith Estate; Ida F. Ford; Joseph B. Hammond  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Burket Shale ESTIMATED DEPTH: 12,700' 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

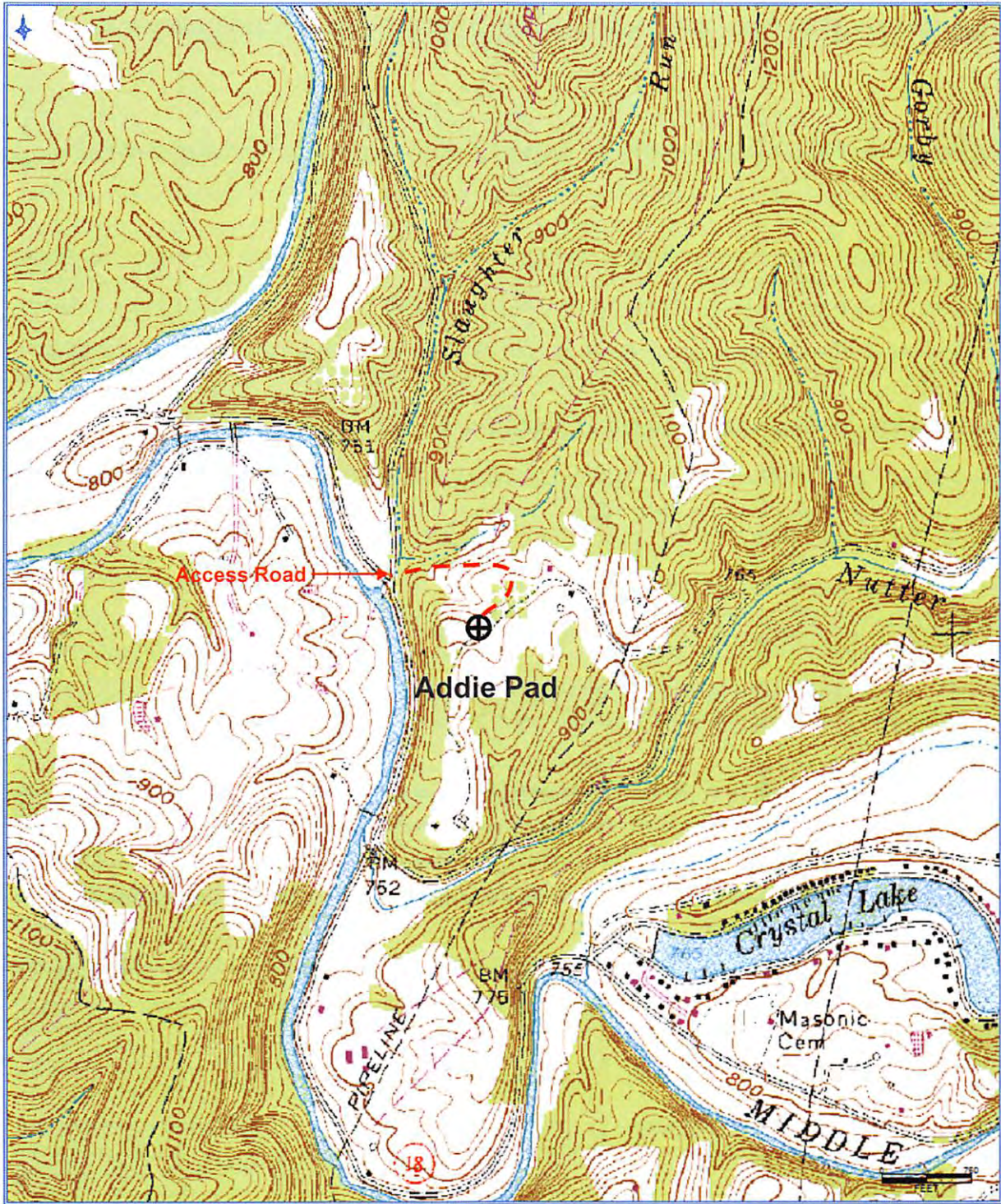
TOP HOLE LONGITUDE 80 - 47 - 30

4,485' to Bottom Hole

15,063' to Top Hole

09/08/2017





RECEIVED  
Office of Oil and Gas

JUN 27 2017

WV Department of  
Environmental Protection

**Antero Resources Corporation**

Appalachian Basin

Michels Unit 3H

Doddridge County

Quadrangle: West Union 7.5'

Watershed: Headwaters Middle Island Creek

District: West Union

Date: 11-3-2015