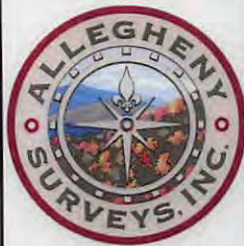


10,364' to Bottom Hole

4,208' to Top Hole

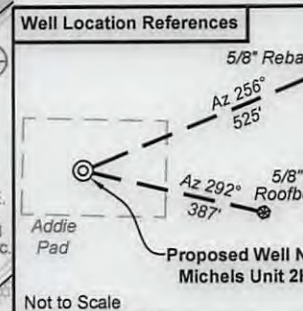
TOP HOLE LATITUDE 39 - 22 - 30  
BTM HOLE LATITUDE 39 - 20 - 00

Antero Resources  
Well No. Michels Unit 2H  
Antero Resources Corporation



Notes:  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Michels Unit 2H Top Hole coordinates are  
N: 306,254.09' Latitude: 39°20'00.52"  
E: 1,630,658.02' Longitude: 80°48'20.80"  
Bottom Hole coordinates are  
N: 296,271.77' Latitude: 39°18'22.64"  
E: 1,636,069.36' Longitude: 80°47'10.12"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,353,811.309m N: 4,350,797.73m  
E: 516,753.693m E: 518,452.99m  
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



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

TM/Par	Owner	Bk/Pg	Acres
1 3/17	Antero Resources Corp.	349/553	25.90
2 3/17.1	Antero Resources Corp.	358/562	9.90
3 3/21.1	Charles & Carol Cottrill	256/479	3.00
4 3/21	Addie Marie Leadmon	250/84	19.84
5 7/1	Mason Memorial Park	96/487	6.54
6 7/4	Robert P. Holden & Sherri M. Bailey	301/464	6.14
7 7/21	Elizabeth Anne Spencer, et al	AP 41/583	14.00
8 29/22	Imogen E. Lynch	WB 40/123	Lot 180
9 29/23	Imogen E. Lynch	WB 40/123	Lot 179
10 29/24	James L. & Martha Williams	182/265	Lot 178
11 29/25	James L. & Martha Williams	160/443	Lot 177
12 29/26	James L. & Martha Williams	182/265	Lot 176
13 29/72	Joseph L. & Marla B. McConnell	301/507	Lot 27
14 29/73	James & Charlotte Marsden	266/195	Lot 28
15 29/74	James & Charlotte Marsden	266/195	Lot 29
16 7/33	Freeman Cemetery	79/39	1.90
17 7/3.1	Masonic Memorial Park, Inc.	237/371	8.78
18 7/3.2	Andrew E. & Loria A. Lett	297/311	12.00
19 7/14.2	Elizabeth Anne Spencer, et al	AP 41/583	1.43
20 7/14.5	Elizabeth Anne Spencer, et al	AP 41/583	0.35
21 7/17.4	Charity Gas, Inc.	264/421	2.27

Notes:  
Well No. Michels Unit 2H  
UTM Zone 17, NAD 1927  
Top Hole Coordinates  
N: 14,283,414.60'  
E: 1,695,335.41'  
Point of Entry Coordinates  
N: 14,283,635.98'  
E: 1,696,686.78'  
Bottom Hole Coordinates  
N: 14,273,527.41'  
E: 1,700,910.55'

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

	Bearing	Dist.
L1	S 75°40' E	1061.1'
L2	N 21°14' E	1163.3'
L3	N 81°39' E	1369.9'
L4	S 67°51' W	524.7'
L5	S 49°56' W	690.4'

Wellhead Layout Not to Scale N 88°37' W 10.0'

FILE NO: 53-30-WU-15  
DRAWING NO: Michels 2H 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: February 9 20 17  
OPERATOR'S WELL NO. Michels Unit 2H  
API WELL NO  
47 - 017 - 06812  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: Existing 895' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union COUNTY: Doddridge  
SURFACE OWNER: Antero Resources Corp. ACREAGE: 25.9  
ROYALTY OWNER: J.C. Smith, Agent for Jacob Smith Estate; Ida F. Ford (2); Joseph B. Hammond LEASE NO: ACREAGE: 58.70, 112, 82.21  
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: 18,300' MD

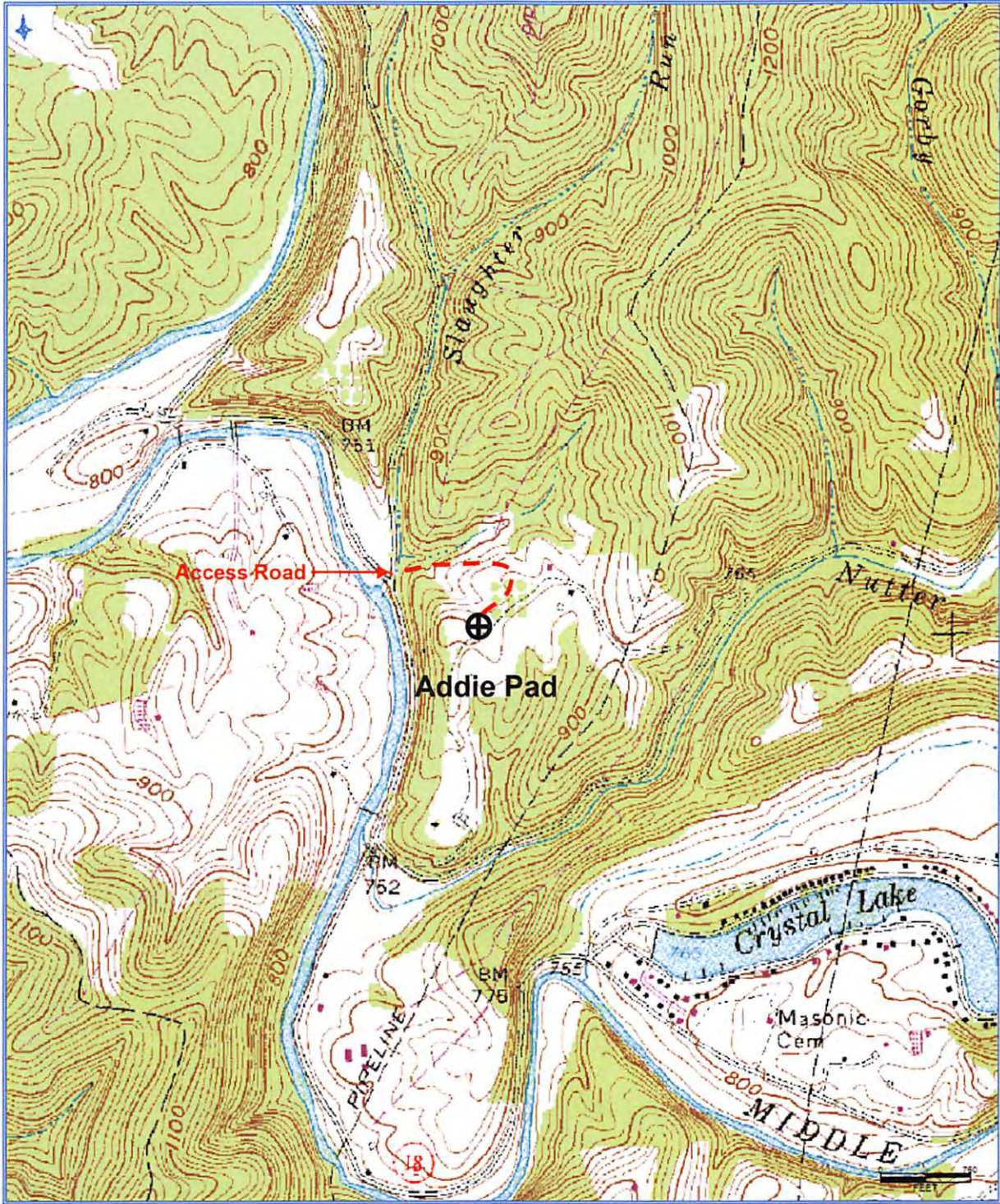
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313

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

15,064' to Top Hole

9,705' to Bottom Hole

05/12/2017



Received  
Office of Oil & Gas  
FEB 13 2017

**Antero Resources Corporation**  
Appalachian Basin  
Michels Unit 2H  
Doddridge County  
Quadrangle: West Union  
Watershed: Middle Island Creek  
District: West Union  
Date: 11-3-2015