

10,603' 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

11,059' to Bottom Hole

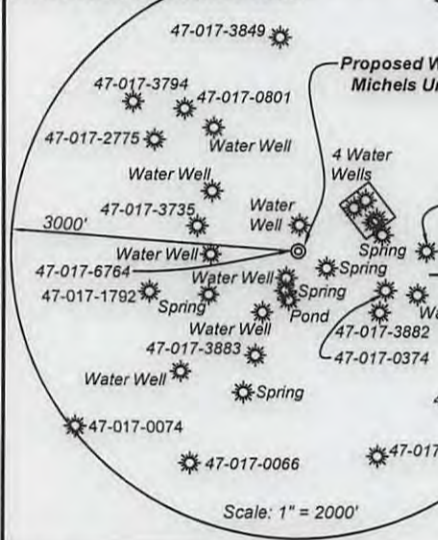
15,063' to Top Hole

GRID NORTH

Antero Resources
Well No. Michels Unit 1H
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.



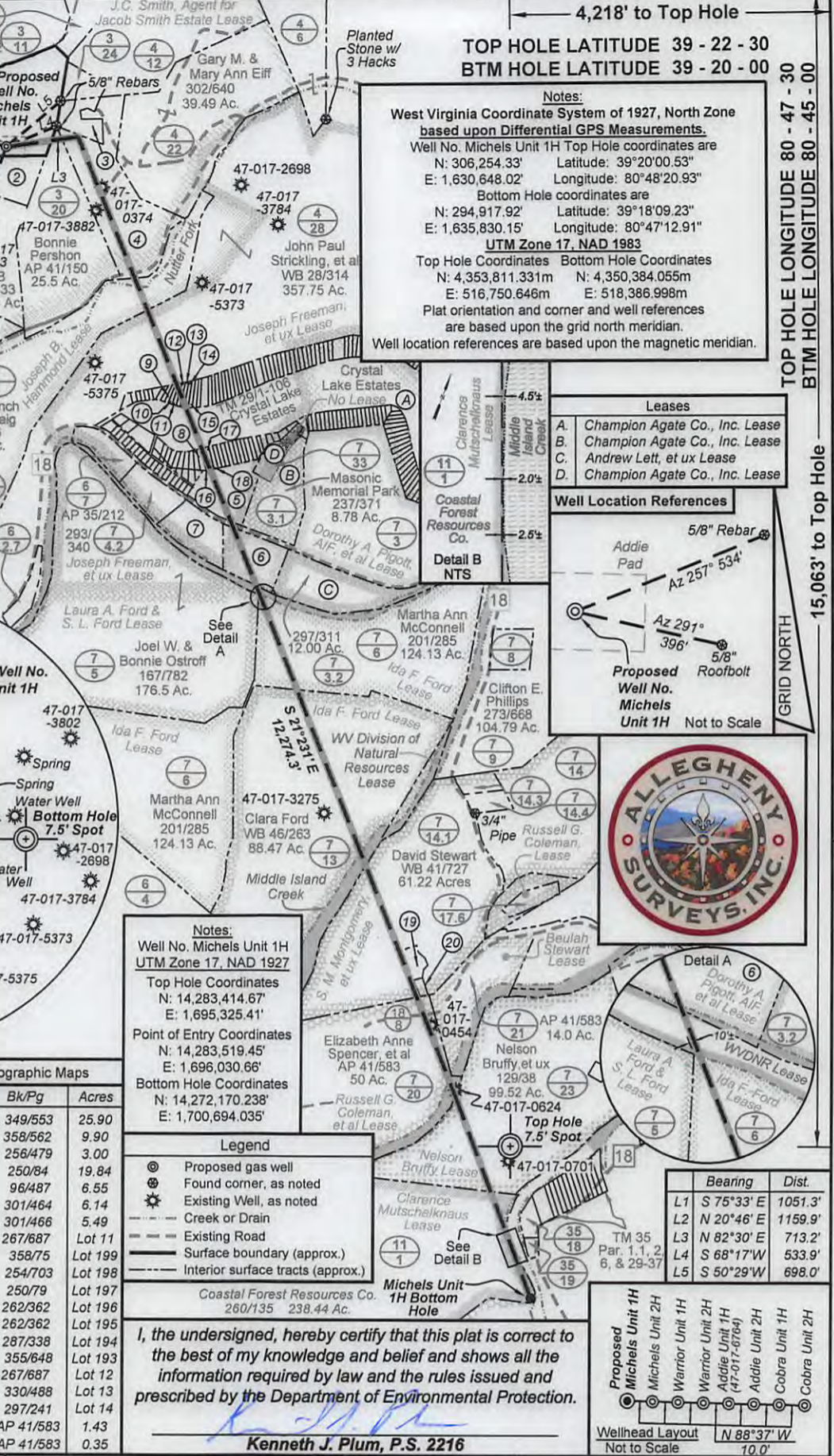
Scale: 1" = 2000'

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	6.55
6 7/4	Robert P. Holden & Sherri M. Bailey	301/464	6.14
7 7/4.1	Robert P. Holden & Sherri M. Bailey	301/466	5.49
8 29/56	Lucia P. Anderson	267/687	Lot 11
9 29/4	Michael C. & Mildred R. Sheets	358/75	Lot 199
10 29/5	Jon, Sandra, Jared Bonnell	254/703	Lot 198
11 29/6	Richard David Williams	250/79	Lot 197
12 29/7	Saundra Sue Pristas	262/362	Lot 196
13 29/8	Saundra Sue Pristas	262/362	Lot 195
14 29/9	Jeffrey T. Harvey	287/338	Lot 194
15 29/10	Mark W. & Lisa D. Ball	355/648	Lot 193
16 29/57	Lucia P. Anderson	267/687	Lot 12
17 29/58	Ronald M. & Karen M. Owens	330/488	Lot 13
18 29/59	Ronald M. & Karen M. Owens	297/241	Lot 14
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

FILE NO: 53-30-WU-15
DRAWING NO: 53-15 Michels 1H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

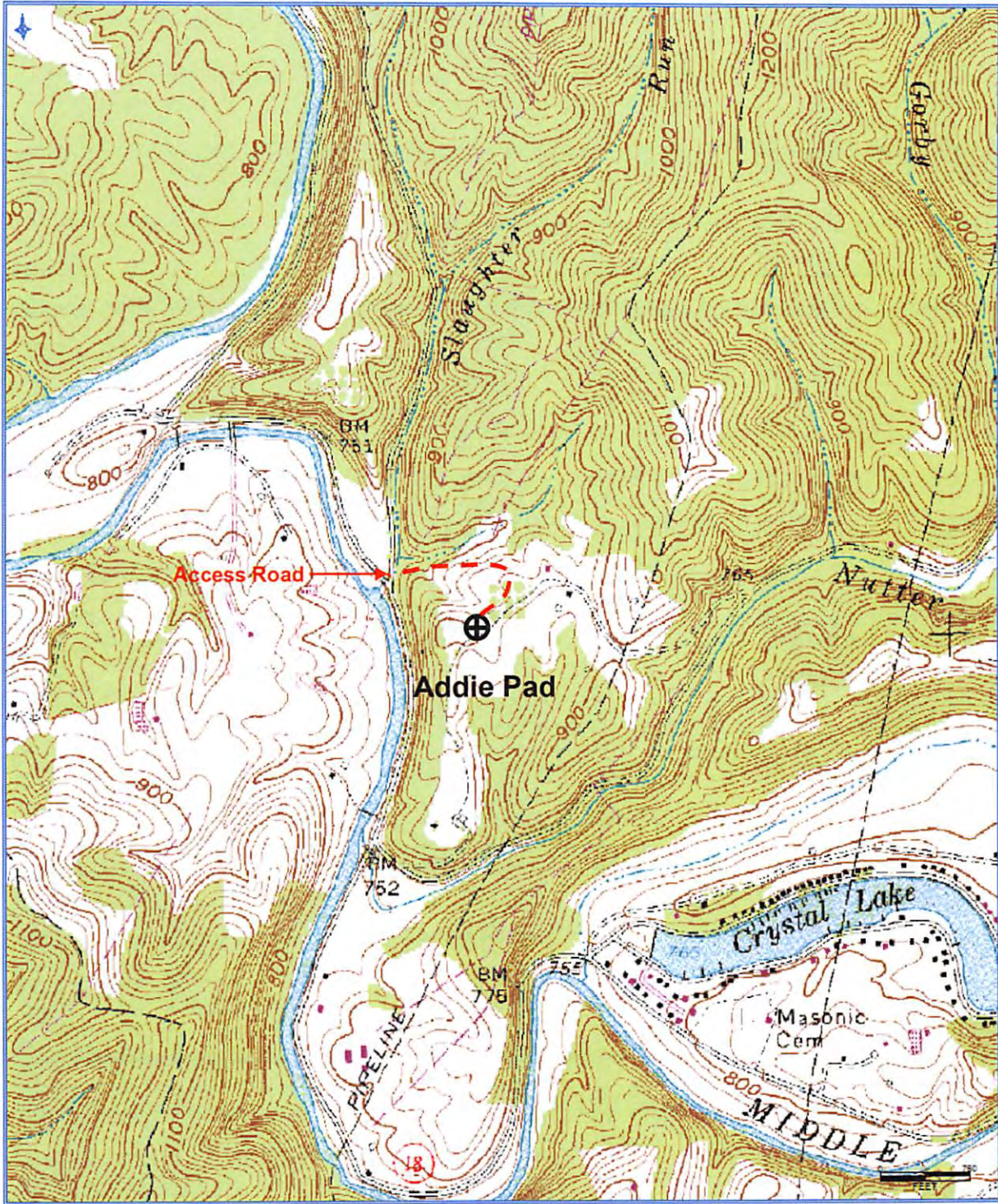
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
PROPOSED 890'
LOCATION: ELEVATION: Existing 895' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
DISTRICT: West Union COUNTY: Doddridge
SURFACE OWNER: Antero Resources Corp. ACREAGE: 25.9
ROYALTY OWNER: S. M. Montgomery, et ux; Joseph Freeman, et ux; Dorothy A. Pigott, AIF, et al
J.C. Smith, Agent for Jacob Smith Estate; Ida F. Ford (2); Joseph B. Hammond 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) 6,900' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,500' MD

WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Street
Denver, CO 80202



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: February 9 20 17
OPERATOR'S WELL NO. Michels Unit 1H
API WELL NO 47 - 017 - 06811
STATE COUNTY PERMIT
DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 5400 D Big Tyler Road
Charleston, WV 25313



Received
Office of Oil & Gas
FEB 13 2017

Antero Resources Corporation
Appalachian Basin
Michels Unit 1H
Doddridge County
Quadrangle: West Union
Watershed: Middle Island Creek
District: West Union
Date: 11-3-2015