

FILE NO: 44-30-WU-14
 DRAWING NO: Smithers 1H As-Drilled Plat
 SCALE: 1" = 1200'
 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 27 2018
 OPERATOR'S WELL NO. Smithers Unit 1H
 API WELL NO
 47 - 017 - 06845
 STATE COUNTY PERMIT

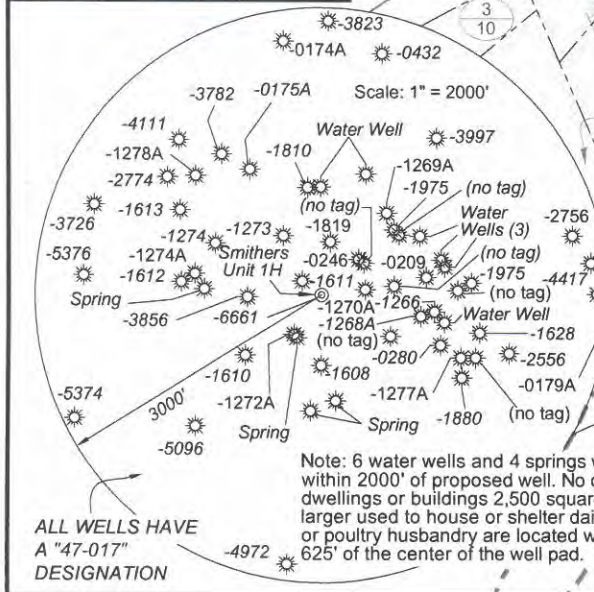
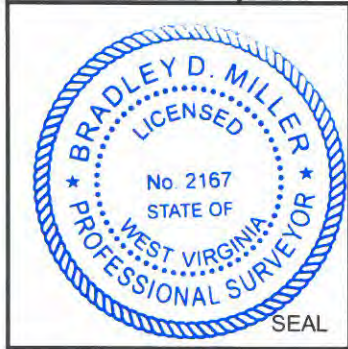
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Drilled - 1065' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union COUNTY: Doddridge
 SURFACE OWNER: John Paul Strickling, et al Acreage: 357.75
 ROYALTY OWNER: Bell Smith, et al; Joseph Freeman, et ux; W. F. Smith, et al LEASE NO: Acreage: 23; 45; 79; 368; 600

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,665' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,959' 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 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.



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.

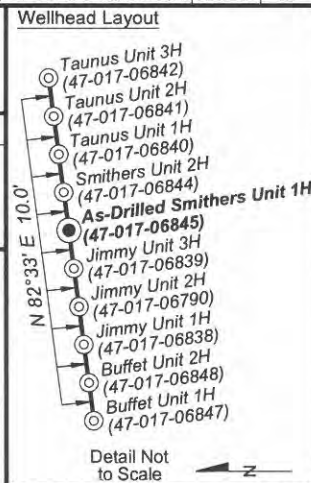
Bradley D. Miller
Bradley D. Miller, P.S. 2167

Leases

A	Jeffrey W. Smith Lease
B	Sam Horton Lease
C	Kendra K. Cottrill Wyke Lease
D	Thomas Lee White Lease
E	Jack R. Guthrie Lease

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Smithers Unit 1H Top Hole coordinates are
 N: 305,690.13' Latitude: 39°19'55.83"
 E: 1,636,860.13' Longitude: 80°47'01.77"
 Bottom Hole coordinates are
 N: 314,917.52' Latitude: 39°21'26.22"
 E: 1,631,095.96' Longitude: 80°48'16.83"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,353,671.072m N: 4,356,452.873m
 E: 518,646.034m E: 516,843.075m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

ID	TM 1	Owner	Bk/Pg	Acres
1	9	Jeffrey Lee & Beth Ann Myer	227/1	1
2	6.1	James M. Friend, et al	241/281	0.88
3	2	Charles & Roberta Beagle	224/546	17
4	7	Perry B. Gains & Aaron Gain	329/229	20



02/15/2019

BTM HOLE LATITUDE 39 - 22 - 30
 TOP HOLE LATITUDE 39 - 20 - 00
 BTM HOLE LONGITUDE 80 - 47 - 30
 TOP HOLE LONGITUDE 80 - 45 - 00
 9,573' to Top Hole
 3,771' to Bottom Hole
 286' to Top Hole
 6,400' to Bottom Hole