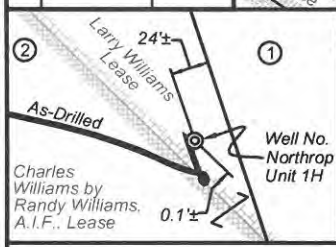


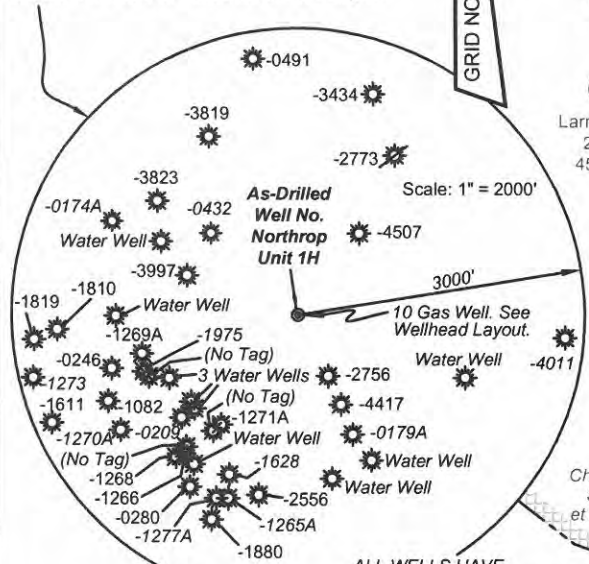
Antero Resources
Well No. Northrop Unit 1H
As-Drilled Plat
Antero Resources Corporation

	Bearing	Dist.	
L1	N 37°00' E	1,369.6'	47-017-1269A
L2	N 25°48' W	979.8'	47-017-1975
L3	N 45°21' W	739.7'	
L4	N 67°55' W	633.7'	



No.	Par	Tax Map 4 Owner	Bk/Pg	Acres
1	34.4	Matthew W. Alexander & Linda M. Muhly	320/629	4.50
2	32	Matthew W. Alexander & Linda Marie Muhly	241/412	43.94
3	30	Kathryn J. Sisler, et al	211/302	30.50
4	34.3	Allen Kendall Jones	167/68	54.0
5	32.1	Andy H. & Carrie Kurtz	349/322	20.0
6	37.4	Larry Williams	302/410	1.16

Note: 9 water wells were found within 2000' of proposed well. No occupied dwellings or 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.



ALL WELLS HAVE A "47-017" DESIGNATION

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



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



FILE NO: 48-30-WU-14
 DRAWING NO: Northrop 1H Well 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: October 8 20 18
 Operator's Well No. Northrop Unit 1H
 API WELL NO
 47 - 017 - 06791
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Drilled Grade - 1181' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union COUNTY: Doddridge
 SURFACE OWNER: Matthew W. Alexander & Linda Marie Muhly Freeman P. Smith, et ux; H. Ross Swiger, et ux B. J. (Sally) Underwood; Lois Jean Braun; Larry Williams ACREAGE: 43.94 48.36; 6.25
 Charles C. Smith, et al; William Ashburn Heirs 45.8; 120; 31
 ROYALTY OWNER: William A. Farr; Charles Williams by Randy Williams, A.I.F.; Joseph Freeman, et ux LEASE NO: ACREAGE: 36; 450; 67; 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 6,901' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,875' 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

7,378' to Top Hole
 4,949' to Bottom Hole
 TOP HOLE LATITUDE 39 - 22 - 30
 BTM HOLE LATITUDE 39 - 20 - 00
 Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Northrop Unit 1H Top Hole coordinates are
 N: 306,913.94' Latitude: 39°20'08.27"
 E: 1,639,266.02' Longitude: 80°46'31.38"
 Bottom Hole coordinates are
 N: 298,485.62' Latitude: 39°18'45.28"
 E: 1,641,483.98' Longitude: 80°46'01.64"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,354,056.156m N: 4,351,499.740m
 E: 519,372.770m E: 520,091.305m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

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.

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

- Wellhead Layout**
 Detail Not to Scale
- Edgar Unit 3H (47-017-6856)
 - Edgar Unit 2H (47-017-6855)
 - Edgar Unit 1H (47-017-6854)
 - Scorpio Unit 2H (47-017-6861)
 - Scorpio Unit 1H (47-017-6860)
 - Convair Unit 3H (47-017-6853)
 - Convair Unit 2H (47-017-6859)
 - Convair Unit 1H (47-017-6858)
 - Northrop Unit 2H (47-017-6857)
 - As-Drilled Northrop Unit 1H (47-017-6791)

05/03/2019

LONGITUDE 80 - 45 - 00
 7,491' to Bottom Hole
 14,237' to Top Hole