

1,121' to Top Hole

2,401' to Bottom Hole

LATITUDE 39 - 32 - 30.00

LONGITUDE 80 - 50 - 00

12,071' to Bottom Hole

13,782' to Top Hole

Antero Resources Well No. Friend 1H

Antero Resources Corporation



	Bearing	Dist.
L1	S 34°17' E	1,271.4'
L2	S 75°31' W	2,075.4'
L3	N 76°09' W	1,520.1'
L4	N 48°05' W	1,155.2'
L5	S 62°50' W	668.7'

Legend

- Proposed gas well
- Found corner, as noted
- Existing Well, as noted
- Digitized Well
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

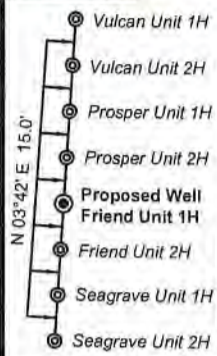
Notes:

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Friend Unit 1H Top Hole coordinates are
 N: 368,424.05' Latitude: 39°30'13.79"
 E: 1,622,664.26' Longitude: 80°50'14.30"
 Bottom Hole coordinates are
 N: 370,153.26' Latitude: 39°30'30.69"
 E: 1,621,409.94' Longitude: 80°50'30.63"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,372,710.910m N: 4,373,231.336m
 E: 514,002.295m E: 513,611.385m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Notes:

Well No. Friend Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,345,421.13'
 E: 1,686,308.42'
 Point of Entry Coordinates
 N: 14,345,106.02'
 E: 1,685,718.90'
 Bottom Hole Coordinates
 N: 14,347,128.58'
 E: 1,685,025.85'

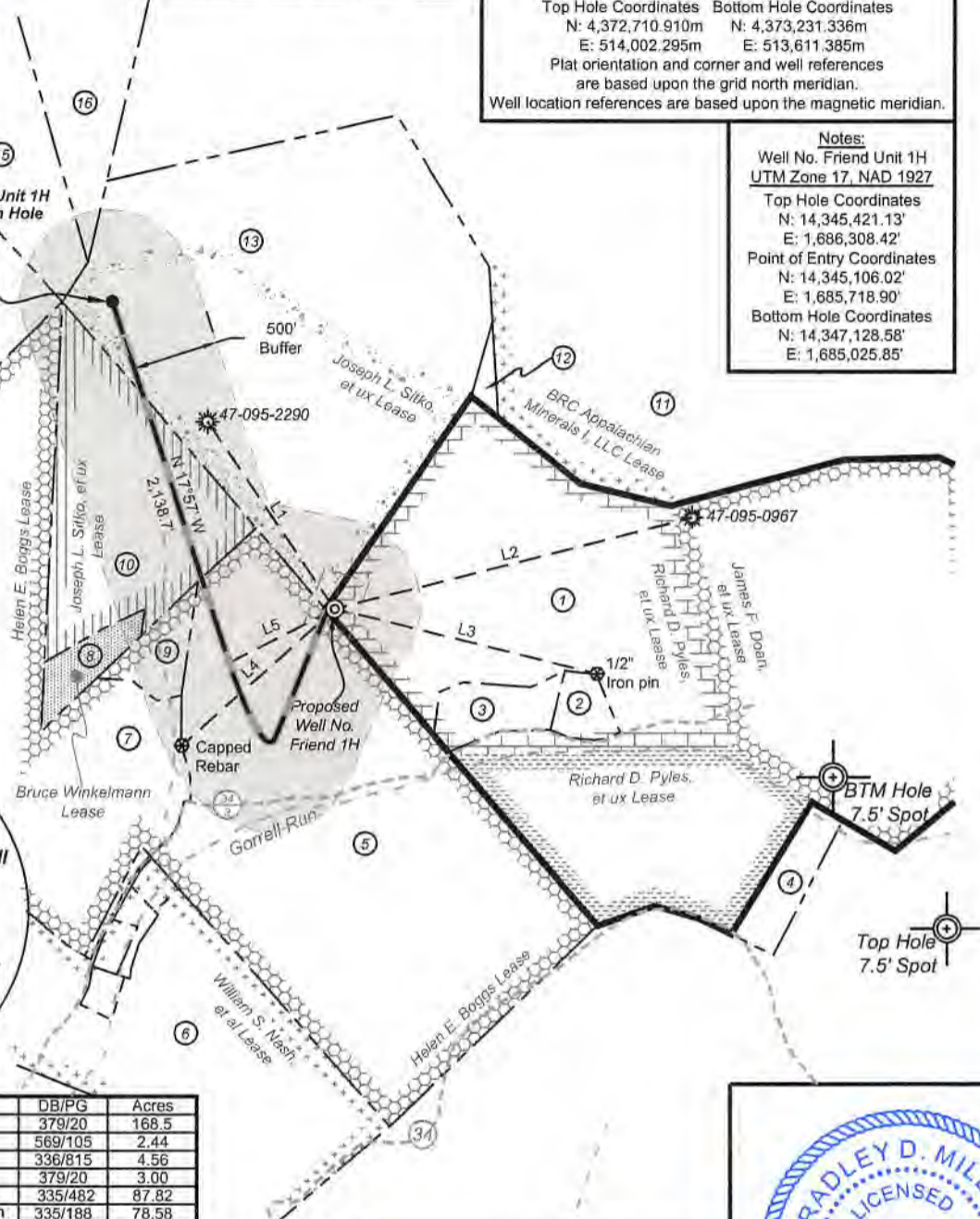
Wellhead Layout



Well Location References



Note: 3 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.



ID	T/M/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.5
2	16-42.2	Bonnie J. Hair	569/105	2.44
3	16-42.1	Richard D. Pyles	336/815	4.56
4	16-42.3	Richard D. Pyles	379/20	3.00
5	16-44	Robert A. Pyles, et al	335/482	87.82
6	15-32	William S. & Opal Marie Nash	335/188	78.58
7	15-38	Rodney A. & Candis L. Nash	351/701	85.48
8	16-23.1	Bruce Winkelmann	334/195	3.30
9	16-44.1	Carl Straight	543/ 598	3.70
10	16-23	Joseph L. Sitko	314/462	29.70
11	16-24	James K. Eastham II	379/34	64.00
12	16-21	Henry Louis Croasmun	531/56	61.73
13	16-22	Joseph L. Sitko, Jr., et ux	296/13	64.00
14	15-30.1	Roger D. Blizzard, et al	343/427	101.38
15	15-10	Darrell J. Sorrell	335/155	34.13
16	16-1	Darrell J. Sorrell	335/155	35.25

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, P.S. 2167



FILE NO: 45-54-E-19
 DRAWING NO: Friend Unit 1H Well Plat
 SCALE: 1" = 1000'
 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: April 14 2020
 OPERATOR'S WELL NO. Friend 1H
 API WELL NO. 47-095-01695
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 Proposed 1,081'
 LOCATION: ELEVATION: Existing 1,113' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Richard D. Pyles ACREAGE: 168.5 81,482; 177;
 ROYALTY OWNER: Richard D. Pyles, et ux; Helen E. Boggs; Joseph L. Sitko, et ux (2) LEASE NO: ACREAGE: 29.7; 45
 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: Marcellus Shale ESTIMATED DEPTH: 7,100' TVD 10,400' 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