

1,122' to Top Hole

1,467' to Bottom Hole

LATITUDE 39 - 32 - 30.00

LONGITUDE 80 - 50 - 00

12,222' to Bottom Hole

13,797' to Top Hole

**Antero Resources
Well No. Friend 2H**

Antero Resources Corporation



	Bearing	Dist.
L1	S 33°52' E	1,283.3'
L2	S 75°08' W	2,080.1'
L3	N 76°42' W	1,517.6'
L4	N 48°36' E	1,144.5'
L5	S 80°43' E	206.6'

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 2H Top Hole coordinates are
N: 368,409.08' Latitude: 39°30'13.64"
E: 1,622,663.29' Longitude: 80°50'14.31"
Bottom Hole coordinates are
N: 369,988.51' Latitude: 39°30'29.20"
E: 1,622,341.41' Longitude: 80°50'18.72"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,372,706.344m N: 4,373,185.889m
E: 514,002.075m E: 513,895.997m
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 2H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,345,406.15'
E: 1,686,307.70'
Point of Entry Coordinates
N: 14,345,376.21'
E: 1,686,512.07'
Bottom Hole Coordinates
N: 14,346,979.45'
E: 1,685,959.62'

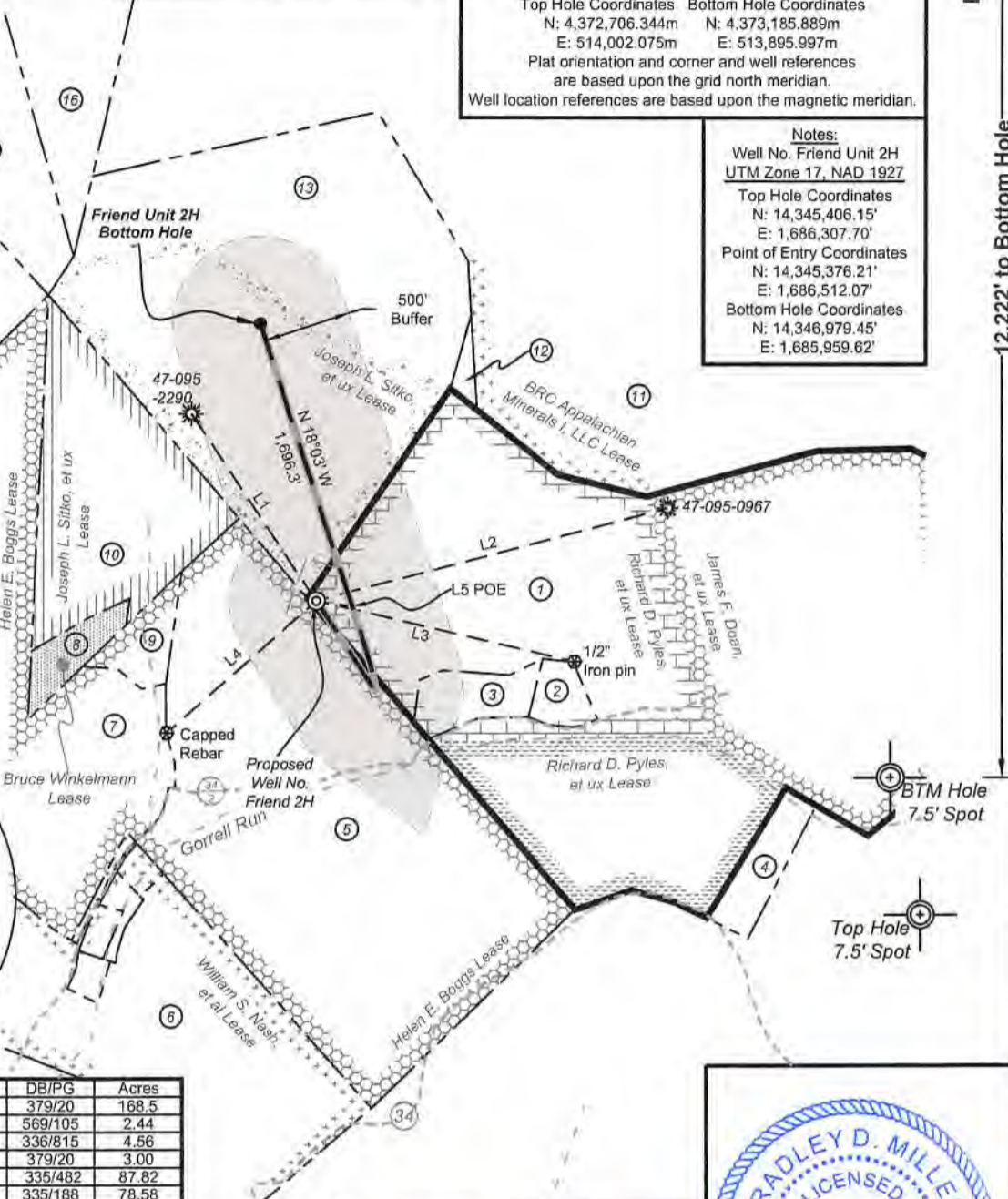
Wellhead Layout



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.

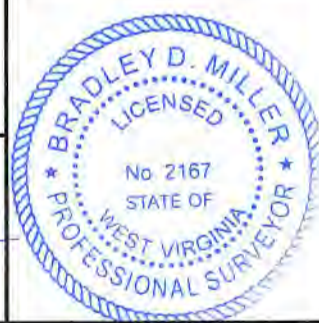


ID	TM/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.5
2	16-42.2	Bonnie J. Hair	569/105	2.44
3	16-42.1	Richard D. Pyles	336/815	4.56
4	16-42.3	Richard D. Pyles	379/20	3.00
5	16-44	Robert A. Pyles, et al	335/482	87.82
6	15-32	William S. & Opal Marie Nash	335/188	78.58
7	15-38	Rodney A. & Candis 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

Bradley D. Miller, P.S. 2167



FILE NO: 45-54-E-19

DRAWING NO: Friend Unit 2H 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 2H

API WELL NO. *Handwritten*

47 - 095 - 02696
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Existing 1,113' PROPOSED 1,081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls

DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Richard D. Pyles ACREAGE: 168.5

ROYALTY OWNER: Richard D. Pyles, et ux ; Helen E. Boggs; Joseph L. Sitko, et ux LEASE NO: ACREAGE: 81.482; 177; 45

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ESTIMATED DEPTH: 7,100' TVD 9,400' MD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale

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