

259' to Bottom Hole

BTM Hole  
7.5' Spot

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

Antero Resources Corporation



	Bearing	Dist.
L1	S 35°34' E	1,236.3'
L2	S 76°43' W	2,061.8'
L3	N 74°29' W	1,528.7'
L4	N 46°34' E	1,187.8'
L5	S 50°46' E	299.3'

**Legend**

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

**TOP HOLE LATITUDE 39 - 32 - 30  
BTM HOLE LATITUDE 39 - 30 - 00**

**Notes:**  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Vulcan Unit 2H Top Hole coordinates are  
N: 368,468.95' Longitude: 39°30'14.23"  
E: 1,622,667.17' Longitude: 80°50'14.27"  
Bottom Hole coordinates are  
N: 366,451.39' Longitude: 39°29'54.41"  
E: 1,623,496.71' Longitude: 80°50'03.31"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,372,724.604m N: 4,372,114.167m  
E: 514,002.953m E: 514,265.921m  
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. Vulcan Unit 2H  
UTM Zone 17, NAD 1927  
Top Hole Coordinates  
N: 14,345,466.05'  
E: 1,686,310.58'  
Point of Entry Coordinates  
N: 14,345,280.70'  
E: 1,686,545.43'  
Bottom Hole Coordinates  
N: 14,343,463.30'  
E: 1,687,173.39'

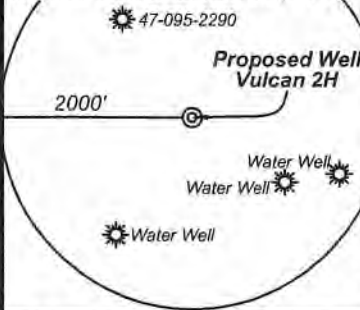
**Wellhead Layout**



**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. Blizard, 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: 190-54-E-19  
DRAWING NO: Vulcan 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. Vulcan 2H  
API WELL NO. H&A  
47 - 095 - 02702  
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  
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)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,100' TVD  
9,800' 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