

14709502701
1,000' to Top Hole
1,000' to Bottom Hole

**Antero Resources
Well No. Vulcan 1H**

Antero Resources Corporation



	Bearing	Dist.
L1	S 36°01' E	1,224.7'
L2	S 77°07' W	2,057.4'
L3	N 73°56' W	1,531.8'
L4	N 46°04' E	1,198.8'
L5	S 51°19' W	732.9'

Legend

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

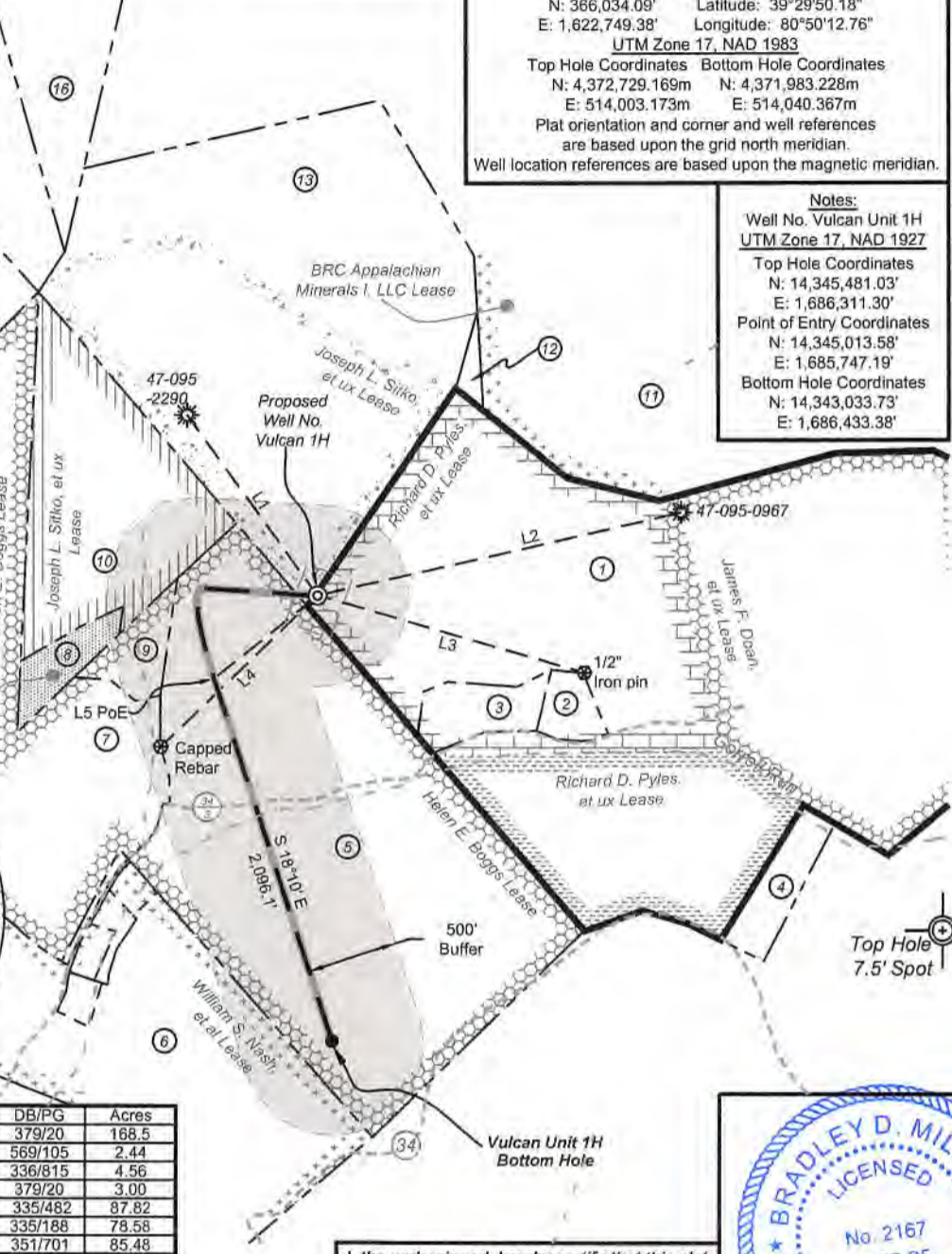
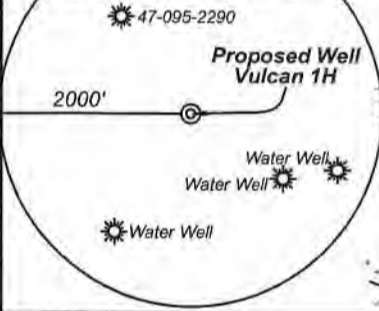
TOP HOLE LATITUDE 39 - 32 - 30
BTM HOLE LATITUDE 39 - 30 - 00

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Vulcan Unit 1H Top Hole coordinates are
N: 368,483.92' Longitude: 80°50'14.26"
E: 1,622,668.14'
Bottom Hole coordinates are
N: 366,034.09' Longitude: 80°50'12.76"
E: 1,622,749.38'
UTM Zone 17, NAD 1983
Top Hole Coordinates N: 4,372,729.169m E: 514,003.173m
Bottom Hole Coordinates N: 4,371,983.228m E: 514,040.367m
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 1H UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,345,481.03'
E: 1,686,311.30'
Point of Entry Coordinates
N: 14,345,013.58'
E: 1,685,747.19'
Bottom Hole Coordinates
N: 14,343,033.73'
E: 1,686,433.38'



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: 190-54-E-19
DRAWING NO: Vulcan 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. Vulcan 1H
API WELL NO. H604
47 - 095 - 02701
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 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