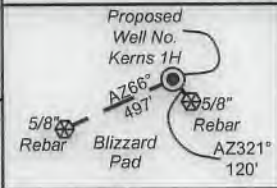


**Antero Resources
Well No. Kerns 1H**

Antero Resources Corporation



Well Location References (NTS)



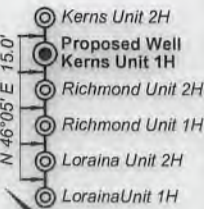
Top Hole
7.5' Spot

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

Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Kerns Unit 1H Top Hole coordinates are N: 366,721.59' Latitude: 39°29'56.41" E: 1,618,919.60' Longitude: 80°51'01.75" Bottom Hole coordinates are N: 370,582.71' Latitude: 39°30'34.66" E: 1,619,566.30' Longitude: 80°50'54.24" UTM Zone 17, NAD 1983
Top Hole Coordinates N: 4,372,173.170m E: 512,870.115m
Bottom Hole Coordinates N: 4,373,352.780m E: 513,047.533m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

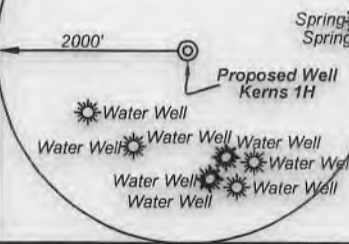
Notes:
Well No. Kerns Unit 1H UTM Zone 17, NAD 1927
Top Hole Coordinates N: 14,343,657.00' E: 1,682,593.97'
Point of Entry Coordinates N: 14,344,672.28' E: 1,684,158.87'
Bottom Hole Coordinates N: 14,347,527.06' E: 1,683,175.93'

Wellhead Layout (NTS)



	Bearing	Dist.
L1	S 37°32' E	901.6'
L2	N 27°12' W	1,690.7'
L3	N 41°25' E	1,421.4'
L4	N 67°11' E	1,198.3'
L5	N 57°59' E	1,866.0'

Note: 8 water wells and 2 springs 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.



- Legend**
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - District Line

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: 46-54-E-19
DRAWING NO: Kerns 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: January 27 2020
OPERATOR'S WELL NO. Kerns 1H
API WELL NO
47 - 095 - 02688
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As-Built 1,004' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley; Porter Falls
DISTRICT: Ellsworth COUNTY: Tyler
SURFACE OWNER: Roger D. Blizzard & Ruth E. Spencer ACREAGE: 102.62
ROYALTY OWNER: Heritage Resources Marcellus Minerals, LLC; Helen E. Boggs; LEASE NO: 79.919; 177; ACREAGE: 101.38; 90.168
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: 7,000' TVD
12,400' 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