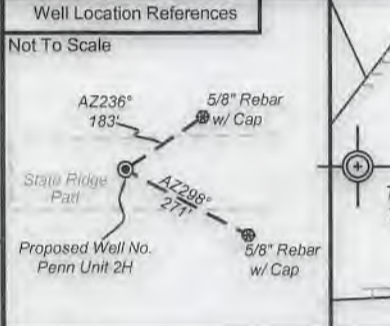


**Notes:**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Penn Unit 2H Top Hole coordinates are  
 N: 370,247.34' Latitude: 39°30'30.25"  
 E: 1,612,229.51' Longitude: 80°52'27.77"  
 Bottom Hole coordinates are  
 N: 363,864.16' Latitude: 39°29'27.59"  
 E: 1,615,045.39' Longitude: 80°51'55.05"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,373,213.233m N: 4,371,282.906m  
 E: 510,814.055m E: 511,704.357m  
 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. Penn Unit 2H UTM Zone 17, NAD 1927  
 Top Hole Coordinates  
 N: 14,347,069.42'  
 E: 1,675,848.26'  
 Point of Entry Coordinates  
 N: 14,348,257.12'  
 E: 1,676,181.64'  
 Bottom Hole Coordinates  
 N: 14,340,736.30'  
 E: 1,678,769.30'

- Legend**
- ⊙ Proposed gas well
  - ⊛ Found corner, as noted
  - ⊙ Existing Well, as noted
  - ⊙ Digitized Well
  - Creek or Drain
  - Existing Road
  - Surface boundary (approx.)
  - Interior surface tracts (approx.)

	Bearing	Dist.
L1	S 56°16' W	2,974.1'
L2	N 78°03' W	3,441.8'
L3	N 59°24' E	2,688.0'
L4	N 66°59' E	3,854.5'
L5	N 16°38' E	1,234.0'



ID	TM/Par	Owner	Bk/Pg	Acres
1	10/62	Haessley Land & Timber, LLC	334/833	268.91
2	15/1	Martin L. Blair Jr. & Ronald K. Blair Sr.	WB18/361	47.00
3	15/37	John D. Mendenhall & Jeffrey A. Davis	444/531	154.17
4	15/3	John W. Eddy Estate	77/319	40.33
5	15/16	Robert M. Feldmeier	330/109	52.37
6	15/18	John W. Eddy Estate	398/670	26.18
7	15/17	David Mendenhall, et al	288/662	85.71
8	15/22	Donald Jr. & Marlene A. MacNaughtan	366/289	99.56
9	15/23	David Mendenhall, et al	326/13	97.25
10	15/15	David Mendenhall, et al	289/4	50.00
11	15/25	Charles Loy Jr., et al	358/610	20.00
12	15/24	Charles & Wilda Lee Fruner	300/342	97.50
13	21/2	Donald K. Baker	WB36/545	130.45
14	21/3	Douglas O. & Monna K. Cooper	287/390	60.46
15	21/5	Michael & Bente H. Biddle	294/537	223.77
16	15/34	Michael & Bente H. Biddle	294/537	82.34
17	21/6	Carl E. & Elsie M. Taylor	391/181	63.50
18	21/18	Ridgetop Capital II, LP	385/781	83.68
19	21/19	Ridgetop Capital II, LP	385/781	20.00
20	21/5.2	Alfred B. & Elizabeth J. Briddle	319/408	6.582
21	21/5.1	Alfred B. & Elizabeth J. Briddle	319/408	1.062
22	21/4	Martha E. & Timothy Ruble	274/236	1.036
23	21/20	Charles O. Conaway	WB17/354	95.50
24	21/44	Tyler County Home	77/672	189.36

Note: 0 water wells or 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.



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

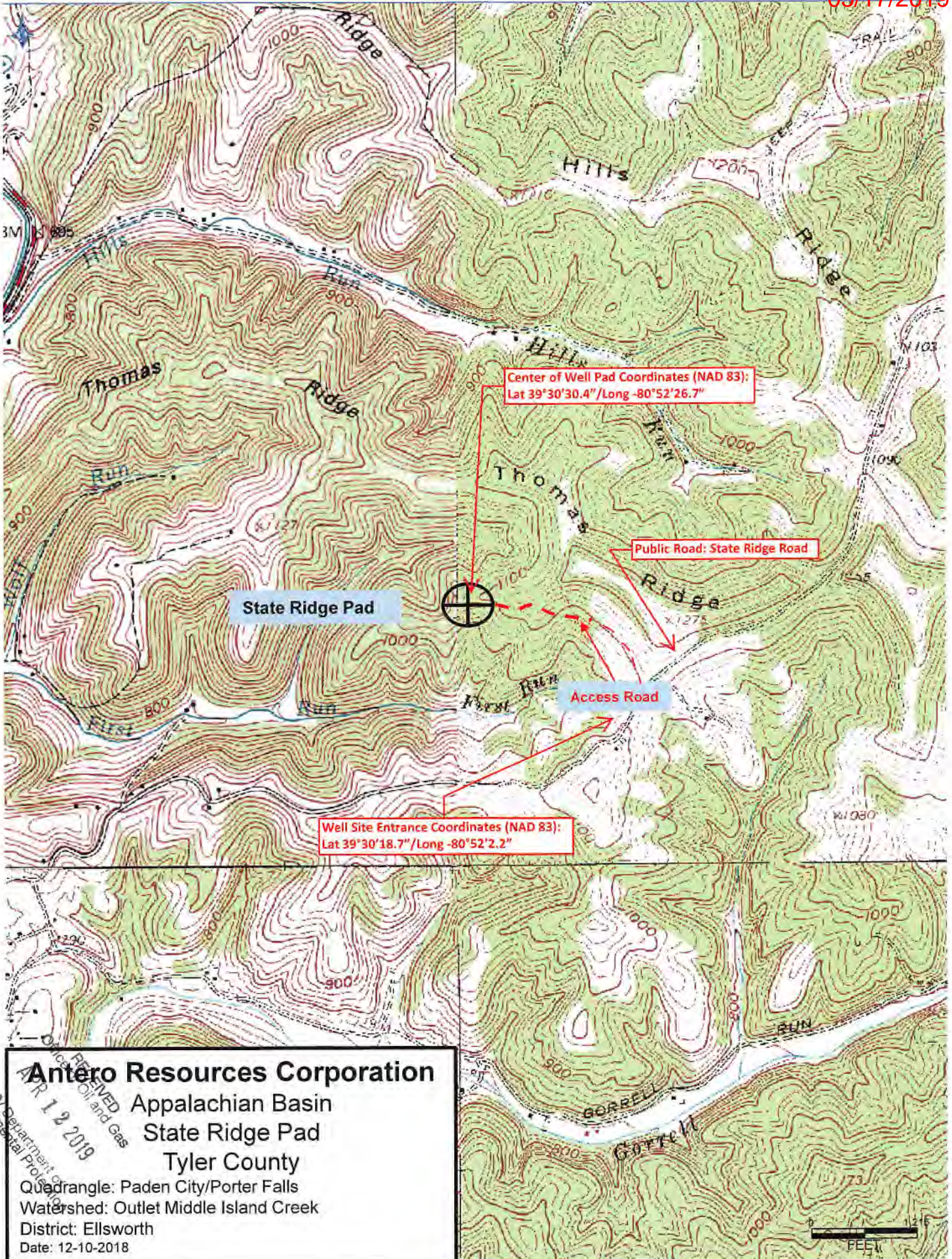
FILE NO: 05-54-E-16  
 DRAWING NO: Penn 2H Well Plat  
 SCALE: 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: April 9 2019  
 OPERATOR'S WELL NO. Penn Unit 2H  
 API WELL NO  
 47 - 095 - 02615  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: Proposed 1,064' Existing 1,090' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley/Paden City/Porter Falls  
 DISTRICT: Ellsworth COUNTY: Tyler  
 SURFACE OWNER: John D. Mendenhall & Jeffrey A. Davis Cliff & Virginia Perkins Irrevocable Trust; ACREAGE: 154.17 154.17; 97.25; 20; 97.5; 63.5;  
 ROYALTY OWNER: Dianne T. Carpenter; Gina Pastors; Piney Holdings Inc.; LEASE NO: ACREAGE: 231.42344  
 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 16,700' 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



**Antero Resources Corporation**  
 Appalachian Basin  
 State Ridge Pad  
 Tyler County  
 Quadrangle: Paden City/Porter Falls  
 Watershed: Outlet Middle Island Creek  
 District: Ellsworth  
 Date: 12-10-2018

APR 12 2019  
 WV Department of Environmental Protection  
 RECEIVED  
 Office of Oil and Gas