

11,148' to Bottom Hole

4,627' to Top Hole

BOTTOM LATITUDE 39 - 32 - 30  
TOP LATITUDE 39 - 30 - 00

LONGITUDE 80 - 55 - 00

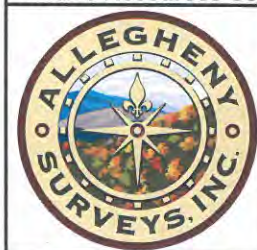
13,336' to Top Hole

14,763' to Bottom Hole

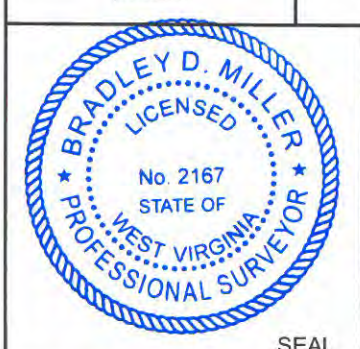
**Antero Resources**  
**Well No. Houser Unit 1H**  
**As-Drilled Plat**  
**Antero Resources Corporation**

(+) Denotes  
Location of Well on  
United States  
Topographic Maps

- Leases:**
- A. Karl E. Rine, et ux
  - B. David T. Cox
  - C. Carol J. Cox
  - D. Jerry A. & Nancy J. Haught, et al
  - E. Stanley M. LeMasters, et ux
  - F. Carol J. Cox

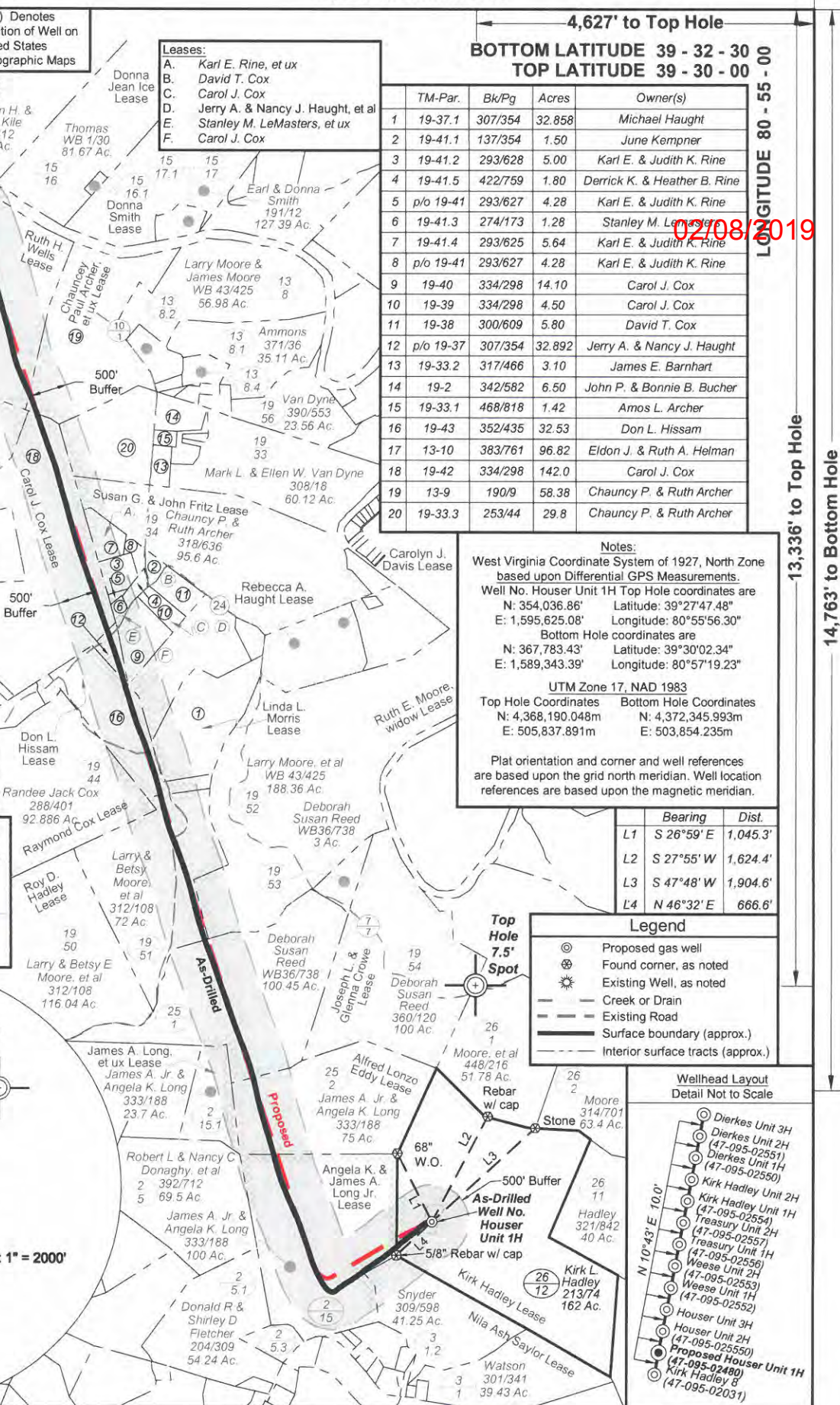
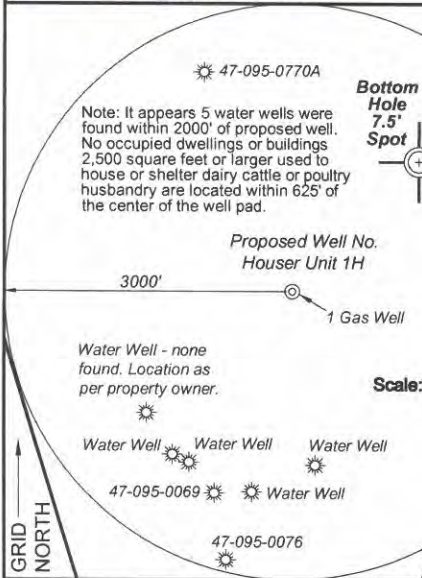


Top Hole Coordinates, As-drilled data and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.



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



	TM-Par.	Bk/Pg	Acres	Owner(s)
1	19-37.1	307/354	32.858	Michael Haught
2	19-41.1	137/354	1.50	June Kempner
3	19-41.2	293/628	5.00	Karl E. & Judith K. Rine
4	19-41.5	422/759	1.80	Derrick K. & Heather B. Rine
5	p/o 19-41	293/627	4.28	Karl E. & Judith K. Rine
6	19-41.3	274/173	1.28	Stanley M. LeMasters
7	19-41.4	293/625	5.64	Karl E. & Judith K. Rine
8	p/o 19-41	293/627	4.28	Karl E. & Judith K. Rine
9	19-40	334/298	14.10	Carol J. Cox
10	19-39	334/298	4.50	Carol J. Cox
11	19-38	300/609	5.80	David T. Cox
12	p/o 19-37	307/354	32.892	Jerry A. & Nancy J. Haught
13	19-33.2	317/466	3.10	James E. Barnhart
14	19-2	342/582	6.50	John P. & Bonnie B. Bucher
15	19-33.1	468/818	1.42	Amos L. Archer
16	19-43	352/435	32.53	Don L. Hissam
17	13-10	383/761	96.82	Eldon J. & Ruth A. Helman
18	19-42	334/298	142.0	Carol J. Cox
19	13-9	190/9	58.38	Chauncy P. & Ruth Archer
20	19-33.3	253/44	29.8	Chauncy P. & Ruth Archer

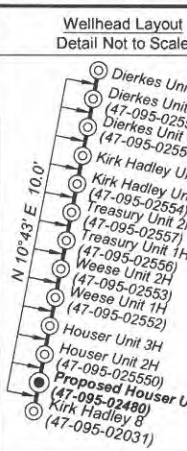
**Notes:**  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Houser Unit 1H Top Hole coordinates are  
N: 354,036.86' Latitude: 39°27'47.48"  
E: 1,595,625.08' Longitude: 80°55'56.30"  
Bottom Hole coordinates are  
N: 367,783.43' Latitude: 39°30'02.34"  
E: 1,589,343.39' Longitude: 80°57'19.23"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates N: 4,368,190.048m E: 505,837.891m  
Bottom Hole Coordinates N: 4,372,345.993m E: 503,854.235m

Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

	Bearing	Dist.
L1	S 26°59' E	1,045.3'
L2	S 27°55' W	1,624.4'
L3	S 47°48' W	1,904.6'
L4	N 46°32' E	666.6'

**Legend**

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



FILE NO: 218-54-E-16  
DRAWING NO: Houser 1H As-Drilled Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: WV DOT, Harrisville, WV

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

DATE: December 27 2018  
OPERATOR'S WELL NO. Houser Unit 1H  
API WELL NO  
47 - 095 - 02480  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 912' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne  
DISTRICT: Meade & Ellsworth COUNTY: Tyler 97.5; 88.18;  
SURFACE OWNER: Kirk L. Hadley Roy D. Hadley; James A. Jr. & Angela K. Long; 100; 32.53;  
Chauncy Paul Archer, et ux; Ruth H. Wells; ACREAGE: 162 291.5; 202;  
ROYALTY OWNER: Kirk Hadley; Alfred Lonzo Eddy; Don L. Hissam; Carol J. Cox (2); LEASE NO: ACREAGE: 142; 21; 75;

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,150' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,706' 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