

1,739' to Bottom Hole

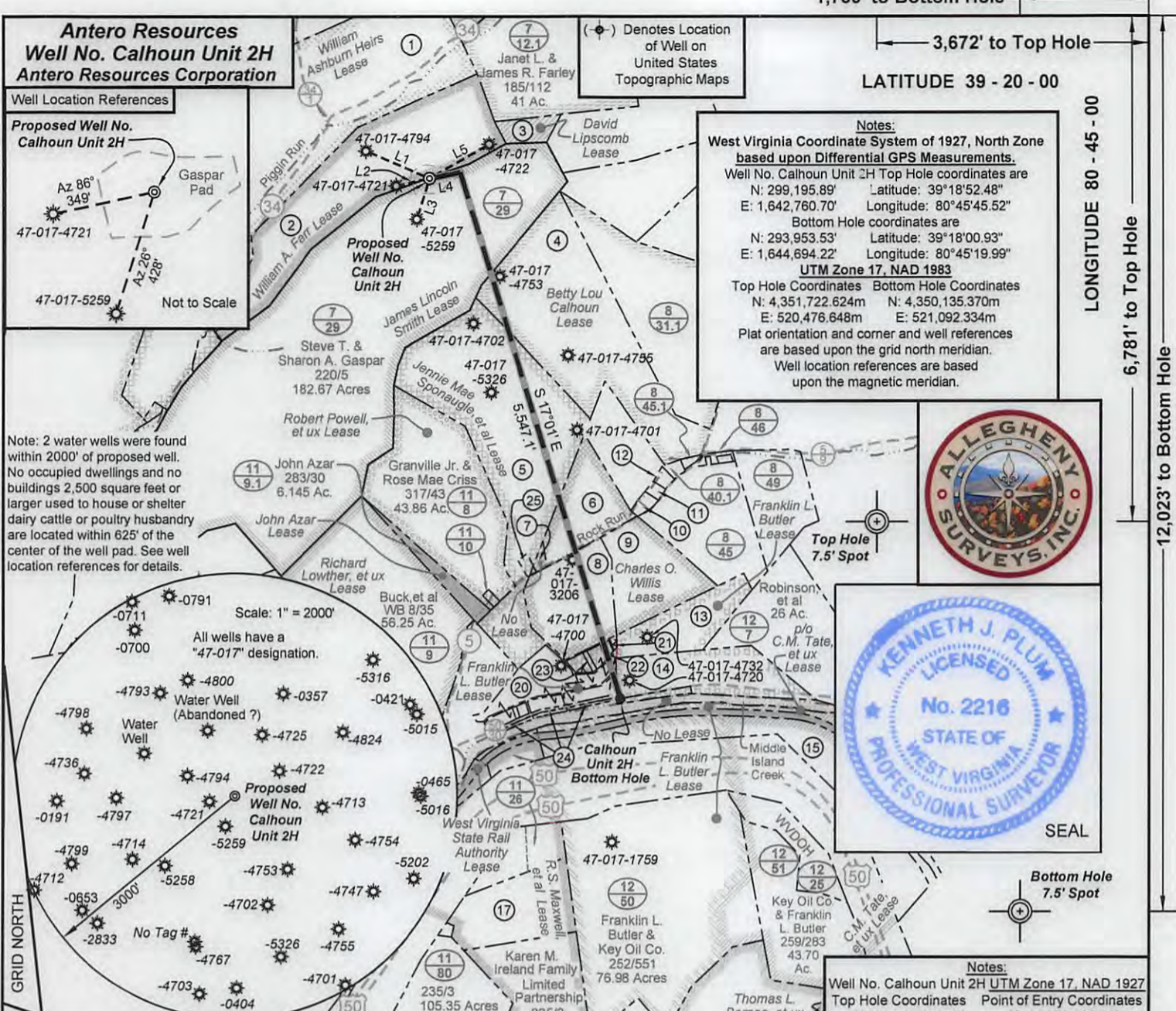
3,672' to Top Hole

LATITUDE 39 - 20 - 00

LONGITUDE 80 - 45 - 00

6,781' to Top Hole

12,023' to Bottom Hole



**Antero Resources**  
**Well No. Calhoun Unit 2H**  
**Antero Resources Corporation**

Well Location References

Proposed Well No. Calhoun Unit 2H

Az 86° 349'  
 Az 26° 428'

Gaspar Pad

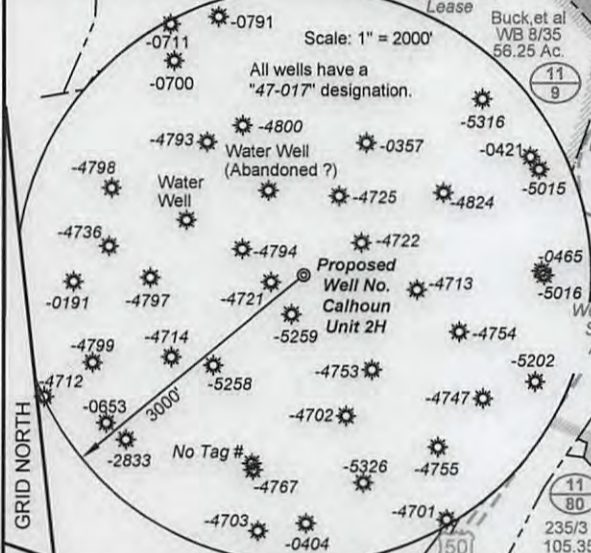
47-017-4721

47-017-5259

Not to Scale

**Notes:**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Calhoun Unit 2H Top Hole coordinates are  
 N: 299,195.89' Longitude: 80°45'45.52"  
 E: 1,642,760.70' Longitude: 80°45'19.99"  
 Bottom Hole coordinates are  
 N: 293,953.53' Longitude: 80°45'19.99"  
 E: 1,644,694.22' Longitude: 80°45'19.99"  
**UTM Zone 17, NAD 1983**  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,351,722.624m N: 4,350,135.370m  
 E: 520,476.648m E: 521,092.334m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.

Note: 2 water wells were found within 2000' of proposed well. No occupied dwellings and no 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. See well location references for details.



**Notes:**  
 Well No. Calhoun Unit 2H UTM Zone 17, NAD 1927  
 Top Hole Coordinates Point of Entry Coordinates  
 N: 14,276,561.67' N: 14,276,628.58'  
 E: 1,707,549.86' E: 1,707,858.33'  
 Bottom Hole Coordinates  
 N: 14,271,354.11'  
 E: 1,709,569.83'

ID	TM/Par	Owner	Bk/Pg	Acres
1	7/18	Christopher J. & Kathryn E. Salina	304/463	116.54
2	7/18.1	Antero Midstream, LLC	346/612	45.80
3	7/19	Janet L. & James R. Fraley	185/112	2.60
4	8/31	Jackson H. Calhoun	294/218	53.75
5	7/25	Robert Sponaugle, et al	WB 43/463	49.50
6	12/2	Frank Jr. & Doris E. Holtz	253/23	13.54
7	11/11.1	Robert W. Sponaugle, et al	WB 43/463	0.25
8	12/1	Eardene O. Spencer	WB 33/68	18.90
9	12/4	Sharon E. Walker & Ronald J. Burns	259/365	18.70
10	8/40.4	Kristen Thomas	362/507	0.81
11	8/40.3	Jonathan M. Johnson	305/616	0.48
12	8/40.2	Sharon K. & Robert W. Sponaugle	WB 37/387	0.56
13	12/6	Rossie & Eva Lowery	258/336	15.30
14	12/23	Rossie & Eva Lowery	258/336	14.63
15	12/103	Ellen L. Barnes	259/275	43.11
16	12/64	Frank L. Butler & Key Oil Co.	259/275	34.13
17	11/25.1	Kathryn Higdon Marshall, et al	MS 17/722	16.72
18	12/64.2	Frank L. Butler & Key Oil Co.	259/275	0.55
19	12/65	James Terrance Robinson, et al	309/761	10.86
20	34/98	Rossie & Eva Lowery	272/321	15.62
21	34/9	Roy F. Ruppert	122/141	0.32
22	34/116	W. W. Gaskins, Heirs	76/305	0.20
23	34/18	Ina Jessa Underwood, Heirs	WB 6/397	0.28
24	34/13	WV Department of Highways	None	1.36
25	7/25.1	Elden C. & Teresa A. Sponaugle	349/701	0.50

Bearing	Dist.
L1 S 66°53' E	701.0'
L2 N 77°45' E	349.4'
L3 N 17°26' E	428.2'
L4 N 78°43' E	315.8'
L5 S 60°21' W	691.3'

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.

*Kenneth J. Plum*  
 Kenneth J. Plum, P.S. 2216

**Legend**

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

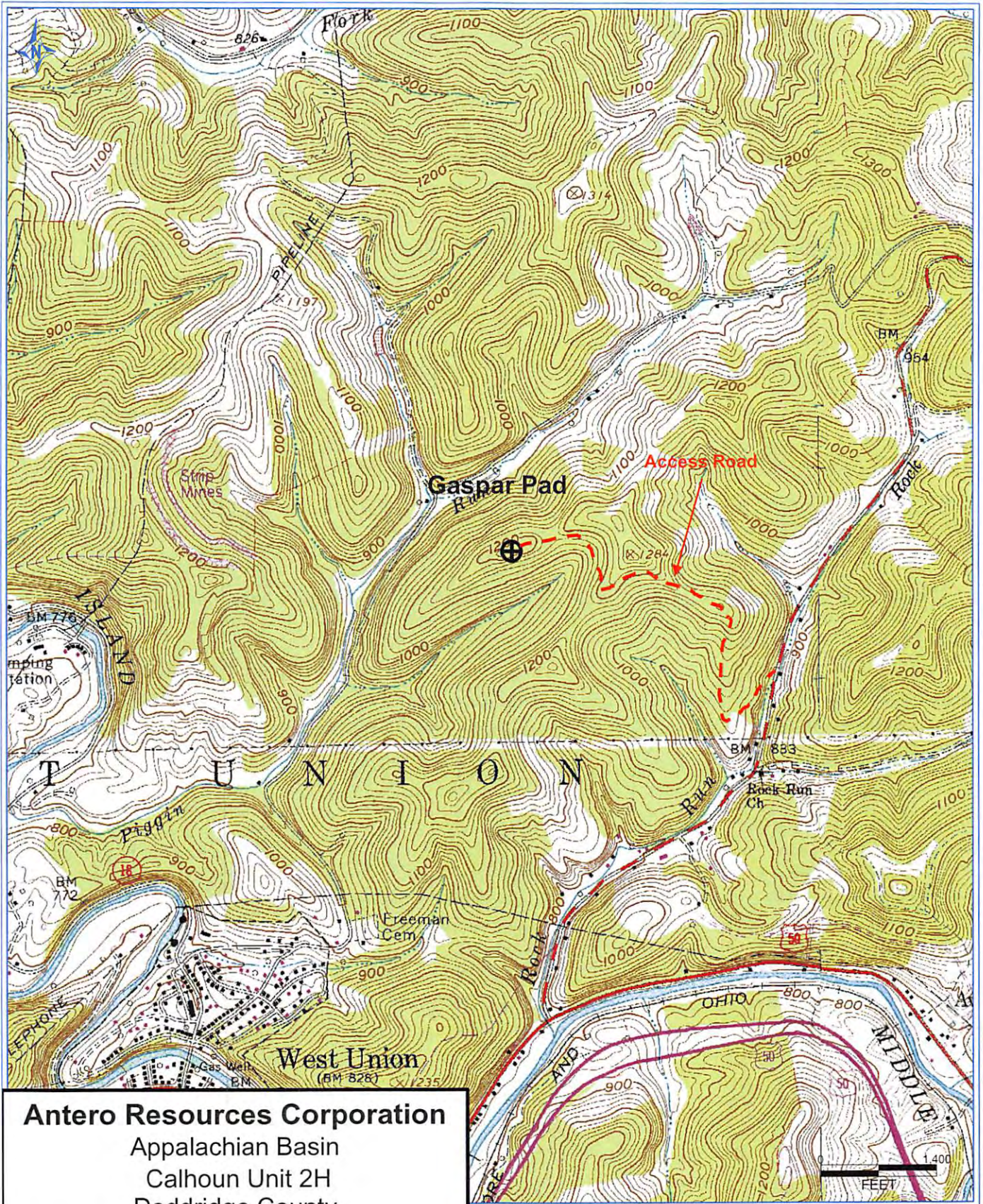
FILE NO: 54-30-WU-14  
 DRAWING NO: Calhoun 2H Well Plat  
 SCALE: 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: July 12 2017  
 OPERATOR'S WELL NO. Calhoun Unit 2H  
 API WELL NO  
 47 - 017 - 06832  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 Proposed Grade 1,193'  
 LOCATION: ELEVATION: Existing Grade 1,223' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union  
 DISTRICT: West Union COUNTY: Doddridge 07/21/2017  
 SURFACE OWNER: Steve T. & Sharon A. Gaspar ACREAGE: 182.67  
 ROYALTY OWNER: Jennie Mae Sponaugle, et al 51; 95.67; 50  
 Franklin L. Butler (2); Charles O. Willis; James Lincoln Smith; Betty Lou Calhoun LEASE NO: ACREAGE: 30; 180; 196.75  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,000' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 13,200' 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  
Calhoun Unit 2H  
Doddridge County

Quadrangle: West Union 7.5'  
Watershed: Headwaters Middle Island Creek  
District: West Union  
Date: 3-21-2017