

LATITUDE 39°20'00"

4,833'

139' TO BOTTOM HOLE  
LATITUDE 39°17'30" 1H BOTTOM HOLE

LONGITUDE 80°42'30"

6,852'

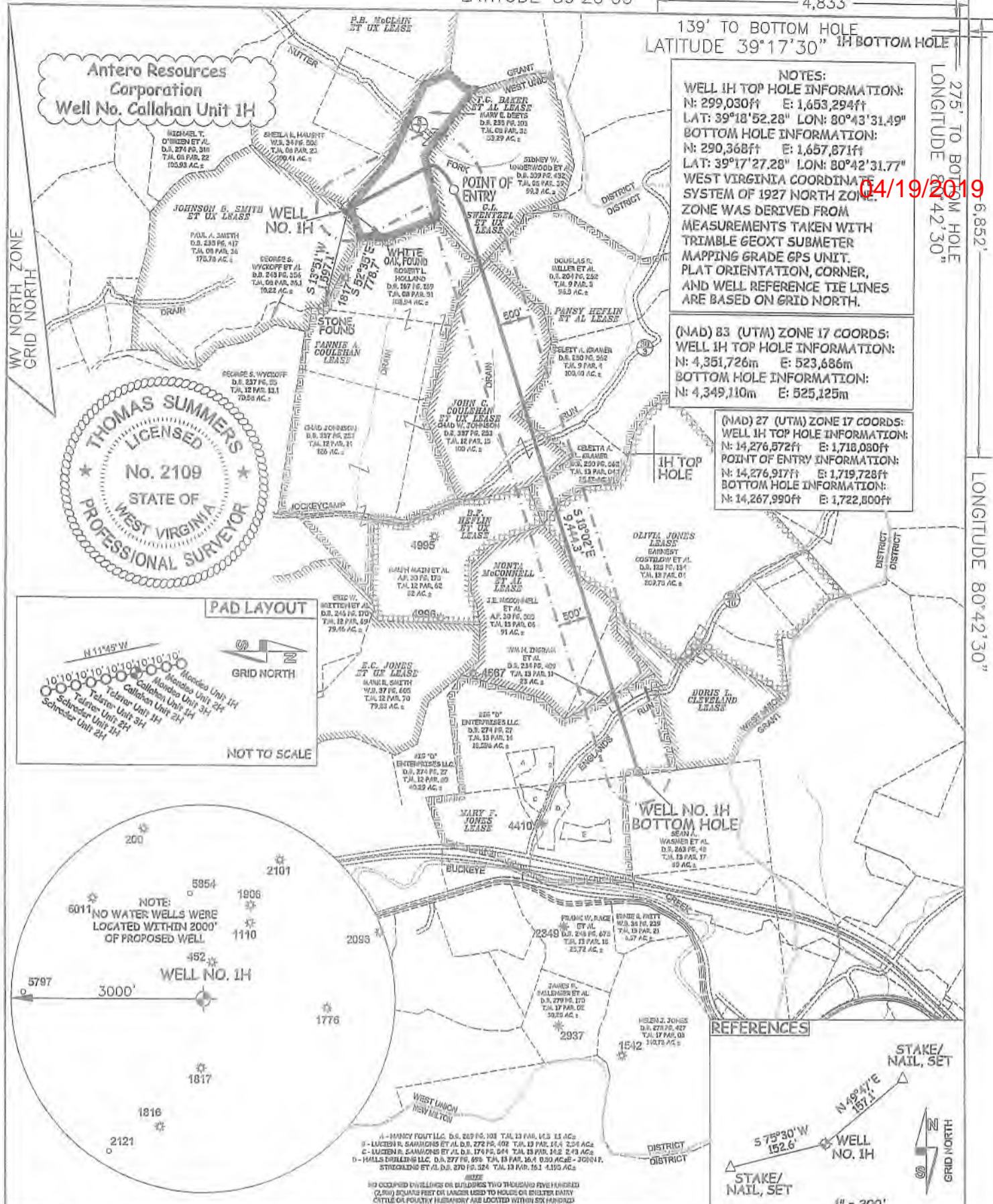
LONGITUDE 80°42'30"

NOTES:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 299,030ft E: 1,653,294ft  
 LAT: 39°18'52.28" LON: 80°43'31.49"  
 BOTTOM HOLE INFORMATION:  
 N: 290,368ft E: 1,657,871ft  
 LAT: 39°17'27.28" LON: 80°42'31.77"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.  
 ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

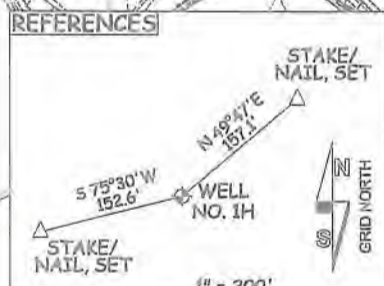
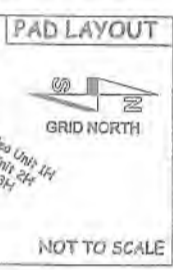
(NAD) 83 (UTM) ZONE 17 COORDS:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 4,351,726m E: 523,686m  
 BOTTOM HOLE INFORMATION:  
 N: 4,349,110m E: 525,125m

(NAD) 27 (UTM) ZONE 17 COORDS:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 14,276,572ft E: 1,718,080ft  
 POINT OF ENTRY INFORMATION:  
 N: 14,276,917ft E: 1,719,728ft  
 BOTTOM HOLE INFORMATION:  
 N: 14,267,990ft E: 1,722,800ft

04/19/2019



Antero Resources Corporation  
 Well No. Callahan Unit 1H



JOB # 13-028WA  
 DRAWING # CALLAHAN1HR5  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

LEGEND  
 - - - - - Surface Owner Boundary Lines +/-  
 - - - - - Interior Surface Tracts +/-  
 - - - - - Existing Fence  
 ⊕ Found monument, as noted

*Thomas Summers*  
 THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1,422'-ORIGINAL 1,376'-PROPOSED WATERSHED HEADWATERS MIDDLE ISLAND CREEK  
 QUADRANGLE SMITHBURG 7.5' DISTRICT WEST UNION COUNTY DODDRIDGE

SURFACE OWNER MARY E. DEETS AND/OR PAUL A. SMITH ACREAGE 53.29 ACRES +/- AND/OR 175.78 ACRES±  
 OIL & GAS ROYALTY OWNER JOHNSON B. SMITH ET UX; T.G. BAKER ET AL; G.L. SWENTZEL ET UX; LEASE ACREAGE 180 ACRES±; 53.46 ACRES±; 103 ACRES±;  
 FANNIE A. COULEHAN; JOHN C. COULEHAN ET UX; PANSY HEFLIN ET AL; OLIVIA JONES; MONTA MCCONNELL ET AL; MARY F. JONES 260 ACRES±; 116 ACRES±; 222.5 ACRES±; 260 ACRES±; 114 ACRES±; 194 ACRES±

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER X REDRILL \_\_\_ FRACTURE OR STIMULATE X  
 PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL  
 (SPECIFY) MOD-POE PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,600' TVD 19,300' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPLER-CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

DATE 03/08/19 OPERATOR'S WELL# CALLAHAN UNIT #1H  
 API WELL # 47 - 017 - 06873 Mod  
 STATE COUNTY PERMIT