

LATITUDE 39°20'00" 1,530'

5,422' TO BOTTOM HOLE

LATITUDE 39°20'00"

LONGITUDE 80°57'30"

12,281' TO BOTTOM HOLE

LONGITUDE 80°57'30"

Antero Resources Corporation  
Well No. Brook Unit 1H  
47-085-10185 (AS DRILLED)

NORTH ZONE  
GRID NORTH

**AS DRILLED DATA:**  
WELL 1H TOP HOLE INFORMATION:  
N: 294,611ft E: 1,585,781ft  
LAT: 39°17'58.62" LON: 80°57'49.46"  
BOTTOM HOLE INFORMATION:  
N: 301,956ft E: 1,582,007ft  
LAT: 39°19'10.60" LON: 80°58'39.00"  
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: 4,350,036m E: 503,141m  
BOTTOM HOLE INFORMATION:  
N: 4,352,254m E: 501,954m

JOB # 14-005WA  
DRAWING # BROOKUNIT1HAD  
SCALE 1" = 1000'  
MINIMUM DEGREE OF  
ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV.  
SUBMETER MAPPING GRADE GPS

**LEGEND**  
--- Surface Owner Boundary Lines +/-  
--- Interior Surface Tracts +/-  
--- Existing Fence  
--- Found monument, as noted  
--- Proposed Well Path  
--- As Drilled Well Path

DATE 01/29/16  
OPERATOR'S WELL# BROOK UNIT #1H

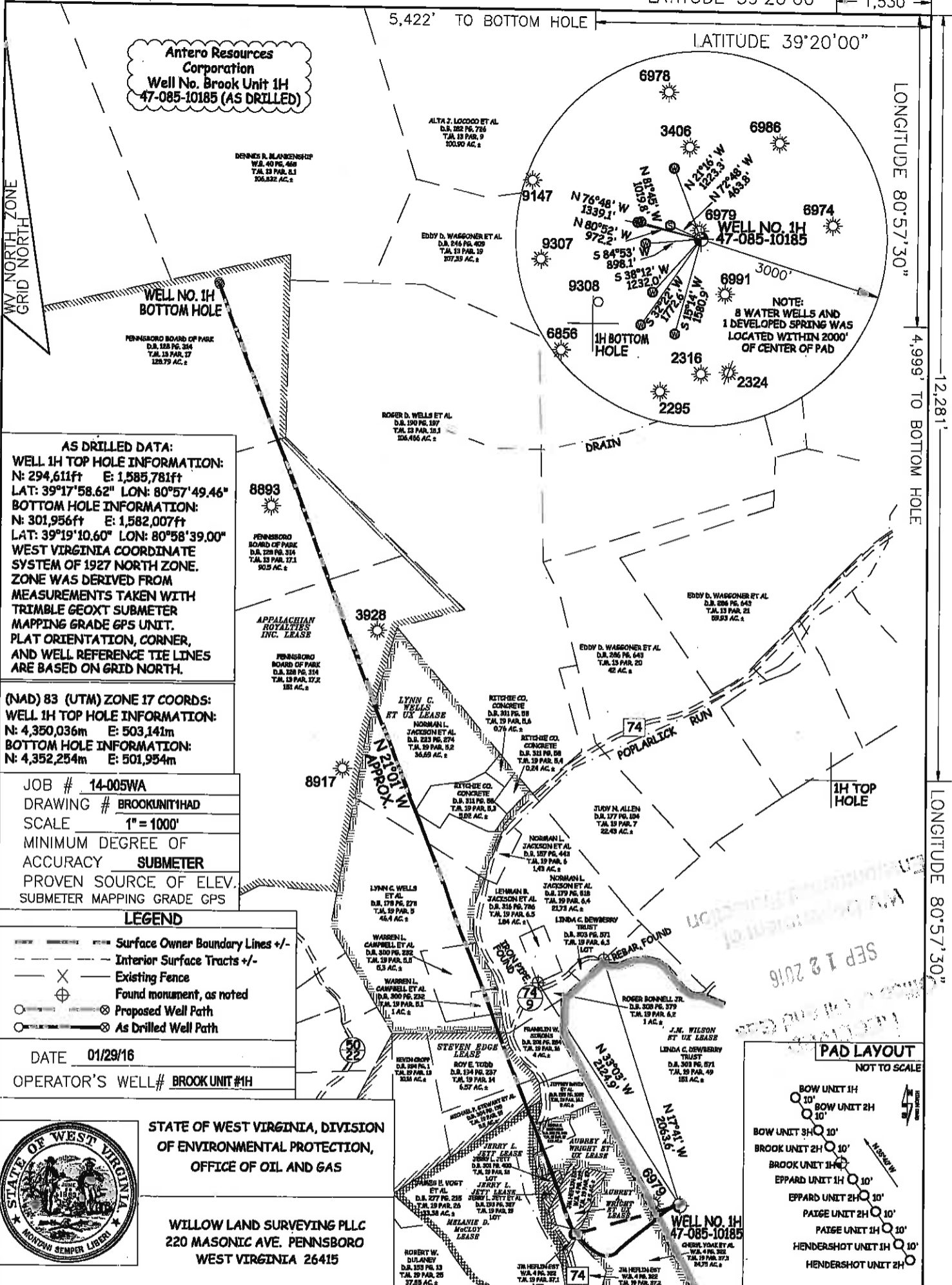
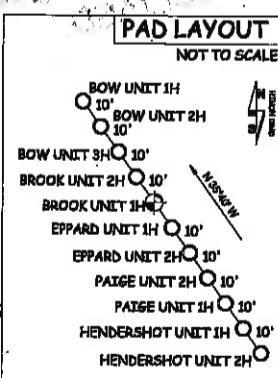


STATE OF WEST VIRGINIA, DIVISION  
OF ENVIRONMENTAL PROTECTION,  
OFFICE OF OIL AND GAS

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
API WELL # 47-085-10185  
STATE COUNTY PERMIT 47-085-10185  
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
LOCATION: ELEVATION 1,124'-ORIGINAL 1,118'-AS DRILLED WATERSHED NORTH FORK HUGHES RIVER  
QUADRANGLE PENNSBORO 7.5 DISTRICT CLAY COUNTY RITCHIE  
SURFACE OWNER LINDA C. DEWBERRY TRUST ACREAGE 151 ACRES +/-  
OIL & GAS ROYALTY OWNER J.M. WILSON ET UX; AUBREY A. WRIGHT ET UX; AUBREY A. WRIGHT ET UX; JERRY L. JETT; JERRY L. JETT;  
MELANIE D. McCLOY; STEVEN EDGE; LYNN C. WELLS ET UX; APPALACHIAN ROYALTIES INC.  
LEASE ACREAGE 700 AC±; 25.73 AC±; 4.25 AC±; 0.5 AC±; 0.92 AC±; 36 AC±; 36.48 AC±; 87.5 AC±; 372.5 AC±  
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE  
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) (X) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,402' TVD 14,741' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER  
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

**NOTE**  
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.  
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.  
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.  
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



SEP 12 2016

COUNTY NAME PERMIT