

LATITUDE 39°15'00"

6,316'

10,358' TO BOTTOM HOLE

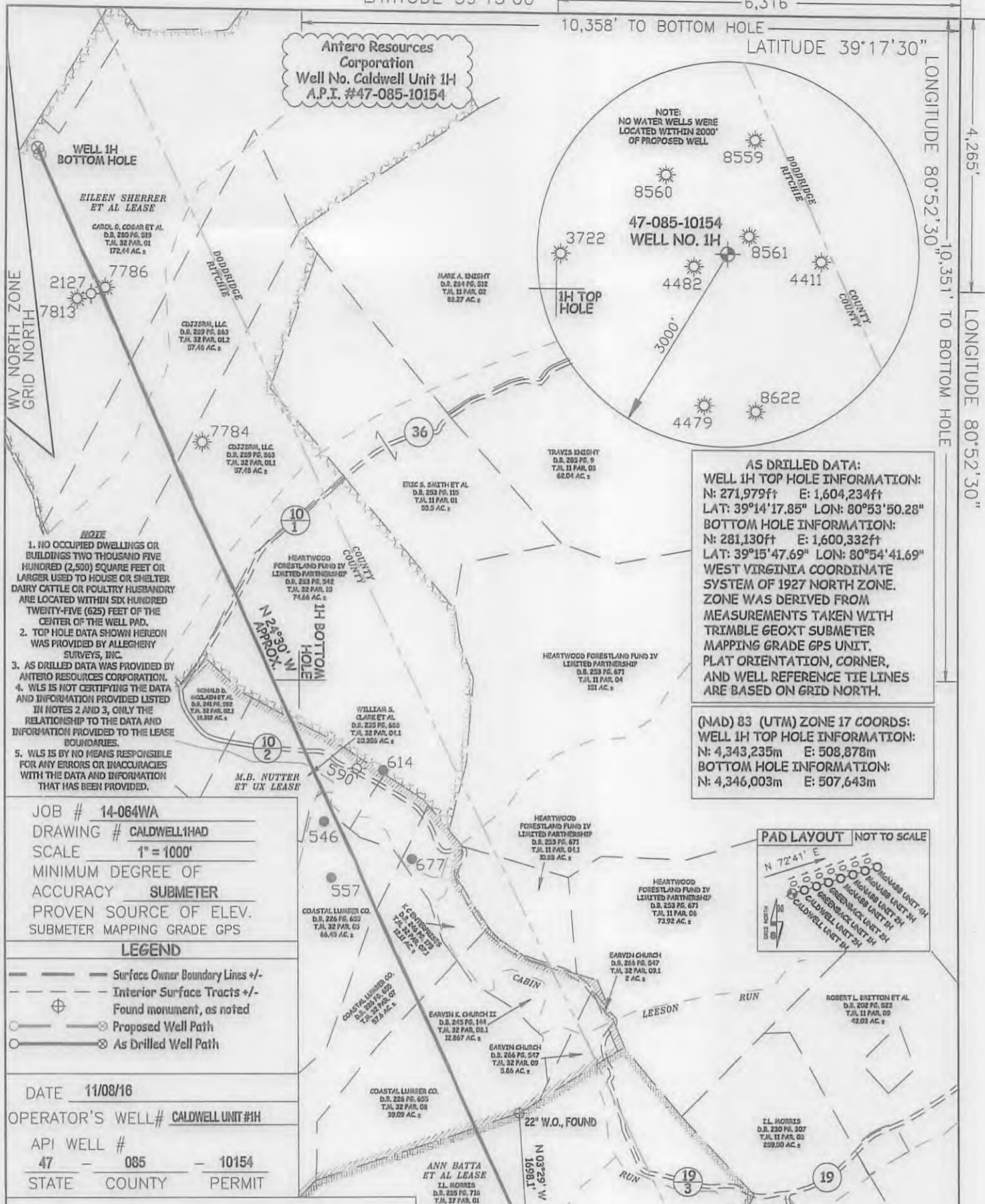
LATITUDE 39°17'30"

LONGITUDE 80°52'30"

4,265'

LONGITUDE 80°52'30"

**Antero Resources Corporation**  
Well No. Caldwell Unit 1H  
A.P.I. #47-085-10154



**AS DRILLED DATA:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 271,979ft E: 1,604,234ft  
 LAT: 39°14'17.85" LON: 80°53'50.28"  
**BOTTOM HOLE INFORMATION:**  
 N: 281,130ft E: 1,600,332ft  
 LAT: 39°15'47.69" LON: 80°54'41.69"  
 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.

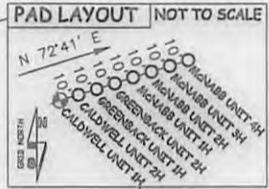
**(NAD) 83 (UTM) ZONE 17 COORDS:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 4,343,235m E: 508,878m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,346,003m E: 507,643m

- 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.

JOB # 14-064WA  
 DRAWING # CALDWELL1HAD  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

DATE 11/08/16  
 OPERATOR'S WELL# CALDWELL UNIT #1H  
 API WELL # 47 - 085 - 10154  
 STATE COUNTY PERMIT



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 DEPT. 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 1,128' (ORIGINAL) - 1,100' (AS DRILLED) WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PULLMAN 7.5' (TH) PENNSBORO 7.5' (BH) DISTRICT CLAY COUNTY RITCHIE  
 SURFACE OWNER JACK D. MACKAY ET AL ACREAGE 235.03 ACRES +/-  
 OIL & GAS ROYALTY OWNER WM. VANCAMPEN; ANN BATT A ET AL; M.B. NUTTER ET UX; LEASE ACREAGE 312 AC±; 111 AC±; 400 AC±;  
EILEEN SHERRER ET AL 500 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 6,424' TVD 16,250' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313

05/26/2017