

LATITUDE 39°15'00"

6,296'

9,265' TO BOTTOM HOLE

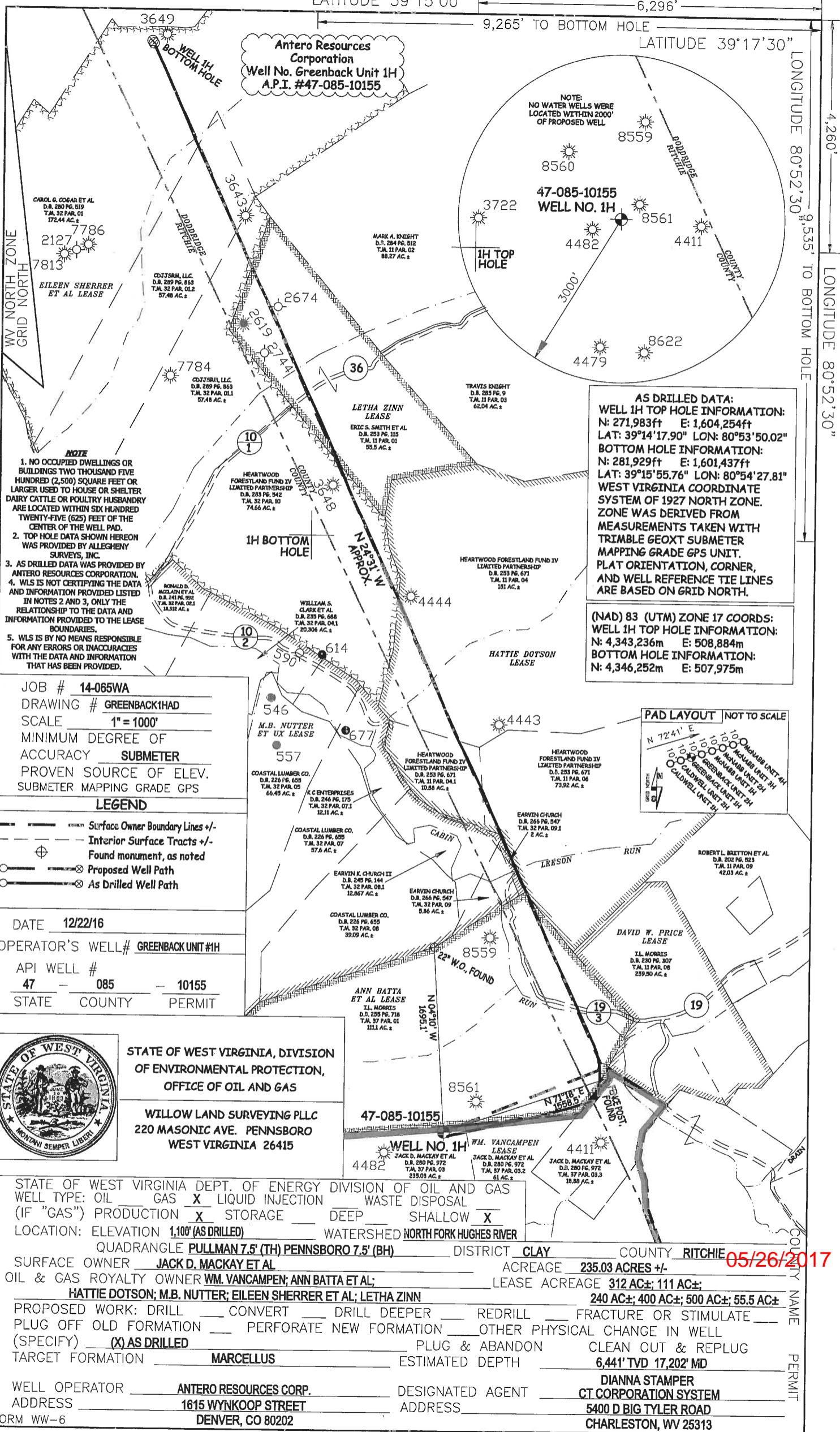
LATITUDE 39°17'30"

LONGITUDE 80°52'30"

4,260'

9,535' TO BOTTOM HOLE

LONGITUDE 80°52'30"



Antero Resources Corporation  
Well No. Greenback Unit 1H  
A.P.I. #47-085-10155

NOTE:  
NO WATER WELLS WERE  
LOCATED WITHIN 2000'  
OF PROPOSED WELL

**AS DRILLED DATA:**  
WELL 1H TOP HOLE INFORMATION:  
N: 271,983ft E: 1,604,254ft  
LAT: 39°14'17.90" LON: 80°53'50.02"  
BOTTOM HOLE INFORMATION:  
N: 281,929ft E: 1,601,437ft  
LAT: 39°15'55.76" LON: 80°54'27.81"  
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.

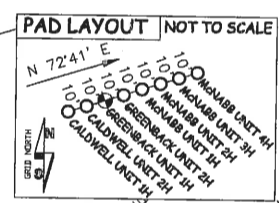
(NAD) 83 (UTM) ZONE 17 COORDS:  
WELL 1H TOP HOLE INFORMATION:  
N: 4,343,236m E: 508,884m  
BOTTOM HOLE INFORMATION:  
N: 4,346,252m E: 507,975m

- 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 # **14-065WA**  
DRAWING # **GREENBACK1HAD**  
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 **12/22/16**  
OPERATOR'S WELL # **GREENBACK UNIT #1H**  
API WELL # **47 - 085 - 10155**  
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 \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW **X**  
LOCATION: ELEVATION **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 BATTA ET AL;** LEASE ACREAGE **312 AC±; 111 AC±;**

**HATTIE DOTSON; M.B. NUTTER; EILEEN SHERRER ET AL; LETHA ZINN** **240 AC±; 400 AC±; 500 AC±; 55.5 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 **6,441' TVD 17,202' MD**

WELL OPERATOR **ANTERO RESOURCES CORP.** DESIGNATED AGENT **DIANNA STAMPER**  
ADDRESS **1615 WYNKOOP STREET** ADDRESS **CT CORPORATION SYSTEM**  
**DENVER, CO 80202** ADDRESS **5400 D BIG TYLER ROAD**  
**CHARLESTON, WV 25313**

05/26/2017