

LATITUDE 39°15'00"

5,913'

9,483' TO BOTTOM HOLE

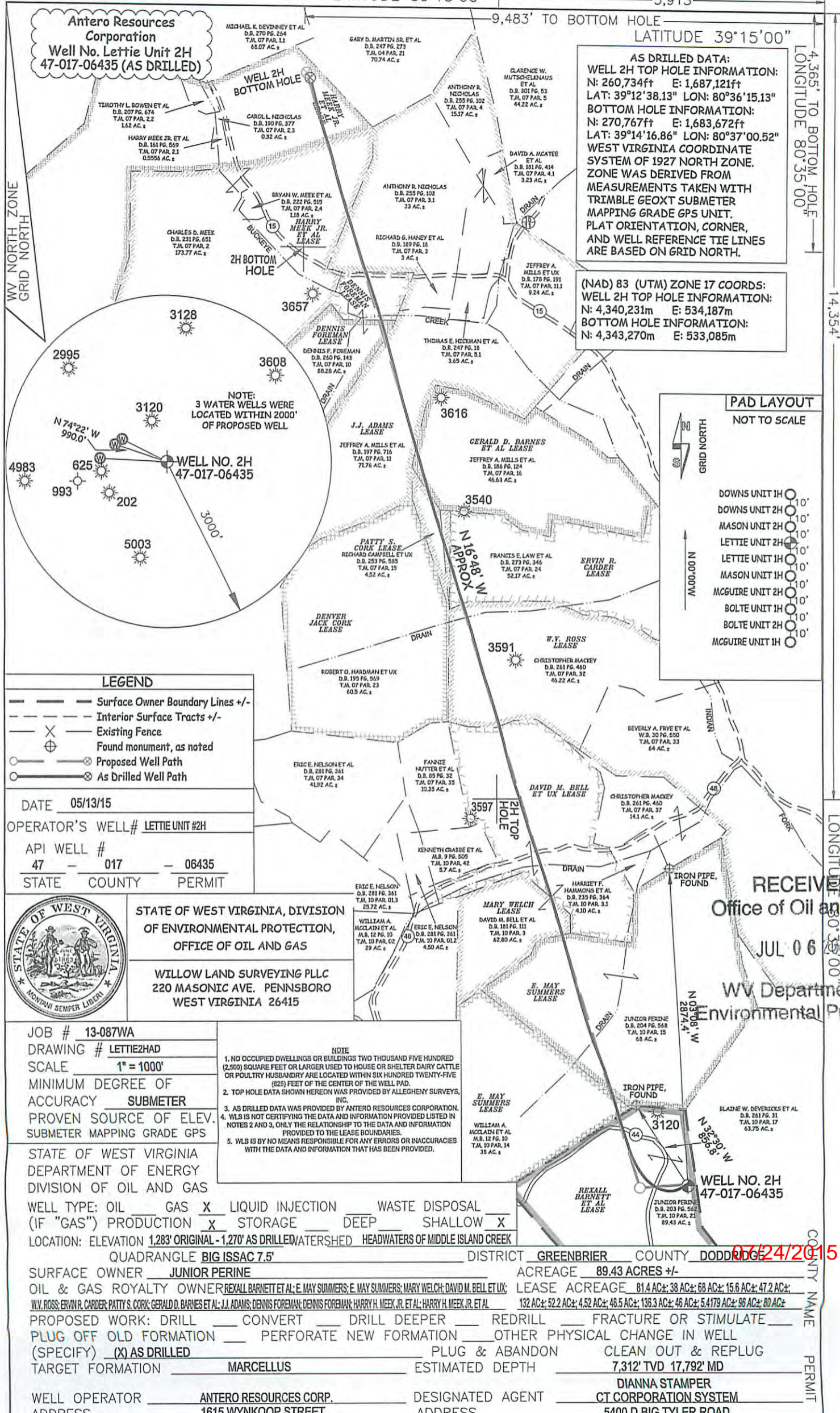
LATITUDE 39°15'00"

4,365' TO BOTTOM HOLE  
LONGITUDE 80°35'00"  
14,354'

Antero Resources Corporation  
Well No. Lettie Unit 2H  
47-017-06435 (AS DRILLED)

AS DRILLED DATA:  
WELL 2H TOP HOLE INFORMATION:  
N: 260,734ft E: 1,687,121ft  
LAT: 39°12'38.13" LON: 80°36'15.13"  
BOTTOM HOLE INFORMATION:  
N: 270,767ft E: 1,683,672ft  
LAT: 39°14'16.86" LON: 80°37'00.52"  
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 2H TOP HOLE INFORMATION:  
N: 4,340,231m E: 534,187m  
BOTTOM HOLE INFORMATION:  
N: 4,343,270m E: 533,085m



PAD LAYOUT  
NOT TO SCALE

- 10' DOWNS UNIT 1H
- 10' DOWNS UNIT 2H
- 10' MASON UNIT 2H
- 10' LETTIE UNIT 2H
- 10' LETTIE UNIT 1H
- 10' MASON UNIT 1H
- 10' MCGUIRE UNIT 2H
- 10' BOLTE UNIT 1H
- 10' BOLTE UNIT 2H
- 10' MCGUIRE UNIT 1H

LEGEND

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

DATE 05/13/15  
 OPERATOR'S WELL# LETTIE UNIT #2H  
 API WELL # 47 - 017 - 06435  
 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

JOB # 13-087WA  
 DRAWING # LETTIE2HAD  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

- 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.

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 1,283' ORIGINAL - 1,270' AS DRILLED WATERSHED HEADWATERS OF MIDDLE ISLAND CREEK

QUADRANGLE BIG ISSAC 7.5' DISTRICT GREENBRIER COUNTY DODDGE  
 SURFACE OWNER JUNIOR PERINE ACREAGE 89.43 ACRES +/-  
 OIL & GAS ROYALTY OWNER REXALL BARNETT ET AL; E. MAY SUMMERS; E. MAY SUMMERS; MARY WELCH; DAVID M. BELL ET UX; LEASE ACREAGE 81.4 AC±; 38 AC±; 68 AC±; 15.6 AC±; 47.2 AC±;  
 W.V. ROSS; ERVIN R. CORDER; PATTY S. CORK; GERALD D. BARNES ET AL; J.J. ADAMS; DENNIS FOREMAN; DENNIS FOREMAN; HARRY H. MEEK JR. ET AL; HARRY H. MEEK JR. ET AL; 132 AC±; 52.2 AC±; 4.52 AC±; 48.5 AC±; 136.3 AC±; 46 AC±; 5.4179 AC±; 96 AC±; 60 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 7,312' TVD 17,792' 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

RECEIVED  
 Office of Oil and Gas  
 JUL 06 2015  
 WV Department of Environmental Protection

06/24/2015