

LATITUDE 39°22'30" -974-

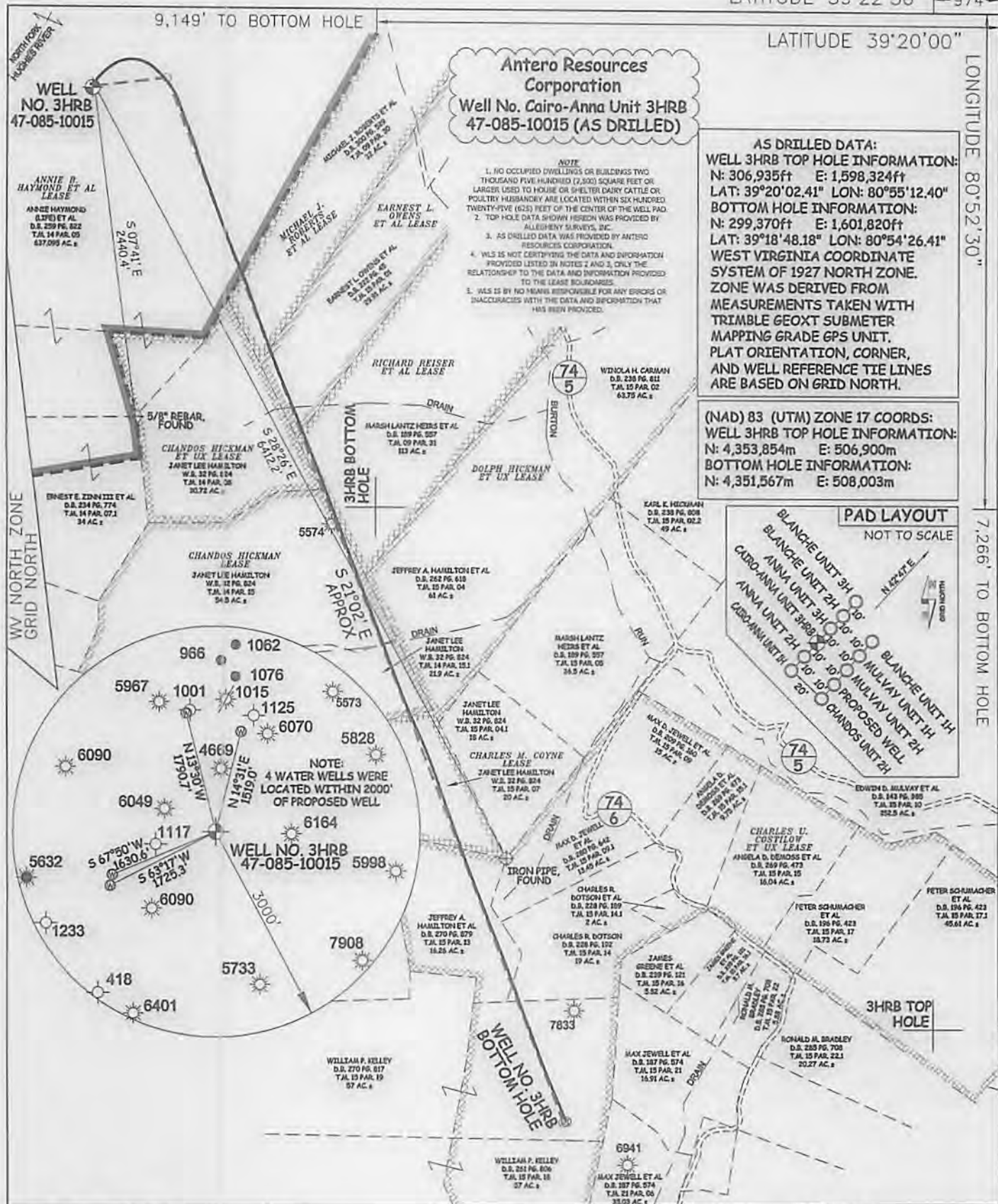
LATITUDE 39°20'00"

LONGITUDE 80°52'30"

LONGITUDE 80°55'00"

14,932'

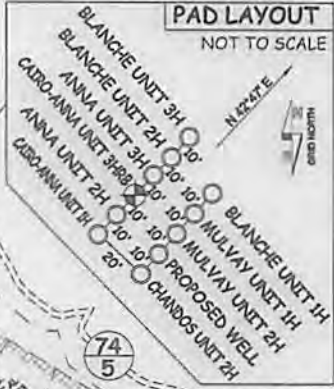
7,266' TO BOTTOM HOLE



**Antero Resources Corporation**  
**Well No. Cairo-Anna Unit 3HRB**  
**47-085-10015 (AS DRILLED)**

**AS DRILLED DATA:**  
**WELL 3HRB TOP HOLE INFORMATION:**  
 N: 306,935ft E: 1,598,324ft  
 LAT: 39°20'02.41" LON: 80°55'12.40"  
**BOTTOM HOLE INFORMATION:**  
 N: 299,370ft E: 1,601,820ft  
 LAT: 39°18'48.18" LON: 80°54'26.41"  
**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 3HRB TOP HOLE INFORMATION:**  
 N: 4,353,854m E: 506,900m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,351,567m E: 508,003m



JOB # 12-127WA  
 DRAWING # CAIRO-ANNA3HRBAD  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY **SUBMETER**  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW

LOCATION: ELEVATION 992' ORIGINAL - 971' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER ANNIE B. HAYMOND, ET AL ACREAGE 637.095 ACRES +/-  
 OIL & GAS ROYALTY OWNER ANNIE B. HAYMOND, ET AL; MICHAEL J. ROBERTS ET AL; EARNEST L. OWENS ET AL; RICHARD REISER ET AL; CHANDOS HICKMAN ET UX; CHANDOS HICKMAN; CHARLES M. COYNE; CHARLES U. COSTLOW ET UX LEASE ACREAGE 700 ACRES +/-; 34.638 ACRES +/-; 113 ACRES +/-; 35 ACRES +/-; 75.5 ACRES +/-; 18.5 ACRES +/-; 200 ACRES +/-

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_  
 PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL  
 (SPECIFY)  AS DRILLED \_\_\_ PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,323' TVD 14,692' 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

10/16/2015