

LATITUDE 39°20'00"

6,816'

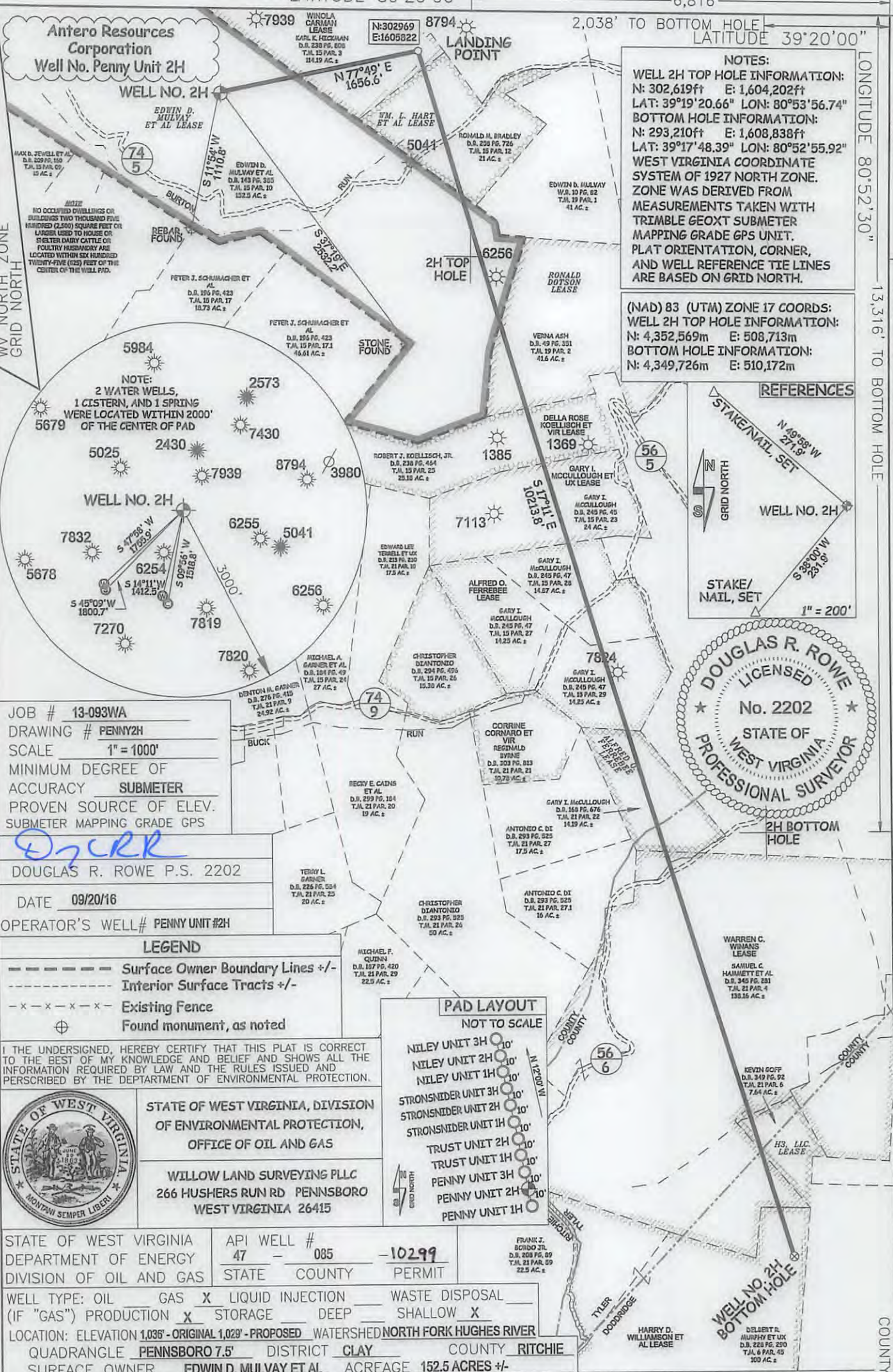
LATITUDE 39°20'00"

LONGITUDE 80°52'30"

3,980'

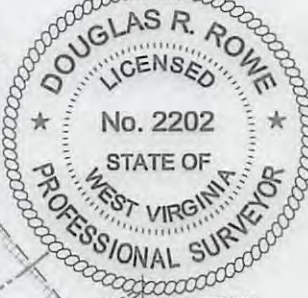
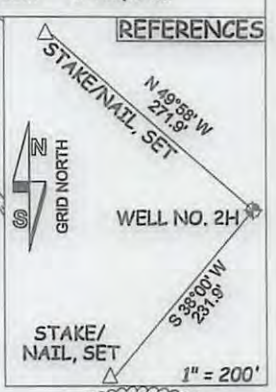
LONGITUDE 80°52'30"

13,316' TO BOTTOM HOLE



NOTES:
 WELL 2H TOP HOLE INFORMATION:
 N: 302,619ft E: 1,604,202ft
 LAT: 39°19'20.66" LON: 80°53'56.74"
 BOTTOM HOLE INFORMATION:
 N: 293,210ft E: 1,608,838ft
 LAT: 39°17'48.39" LON: 80°52'55.92"
 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: 4,352,569m E: 508,713m
 BOTTOM HOLE INFORMATION:
 N: 4,349,726m E: 510,172m



JOB # 13-093WA
 DRAWING # PENNY2H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

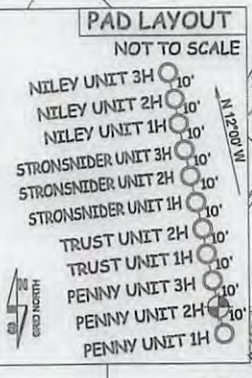
D.R. Rowe
 DOUGLAS R. ROWE P.S. 2202
 DATE 09/20/16
 OPERATOR'S WELL# PENNY UNIT #2H

LEGEND
 - - - - - Surface Owner Boundary Lines +/-
 - - - - - Interior Surface Tracts +/-
 - x - x - x - Existing Fence
 ⊕ Found monument, as noted

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 API WELL # 47 - 085 - 10299
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,035' - ORIGINAL 1,029' - PROPOSED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER EDWIN D. MULVAY ET AL ACREAGE 152.5 ACRES +/-
 OIL & GAS ROYALTY OWNER EDWIN DELMAR MULVAY ET AL; WINOLA CARMAN; WM L. HART ET AL; RONALD DOTSON; LEASE ACREAGE 152 AC.; 23.94 AC.; 21.56 AC.; 41.594 AC.; 25 AC.; 24 AC.; 45 AC.; 15 AC.; 143 AC.; 1.6 AC.; 178 AC.
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,600' TVD 18,400' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313

12/23/2016