

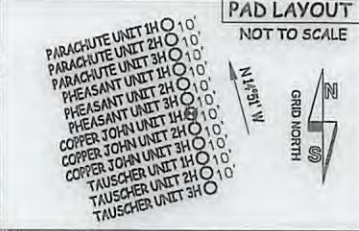
LATITUDE 39°27'30" 1,711'

LATITUDE 39°25'00" 412' TO BOTTOM HOLE

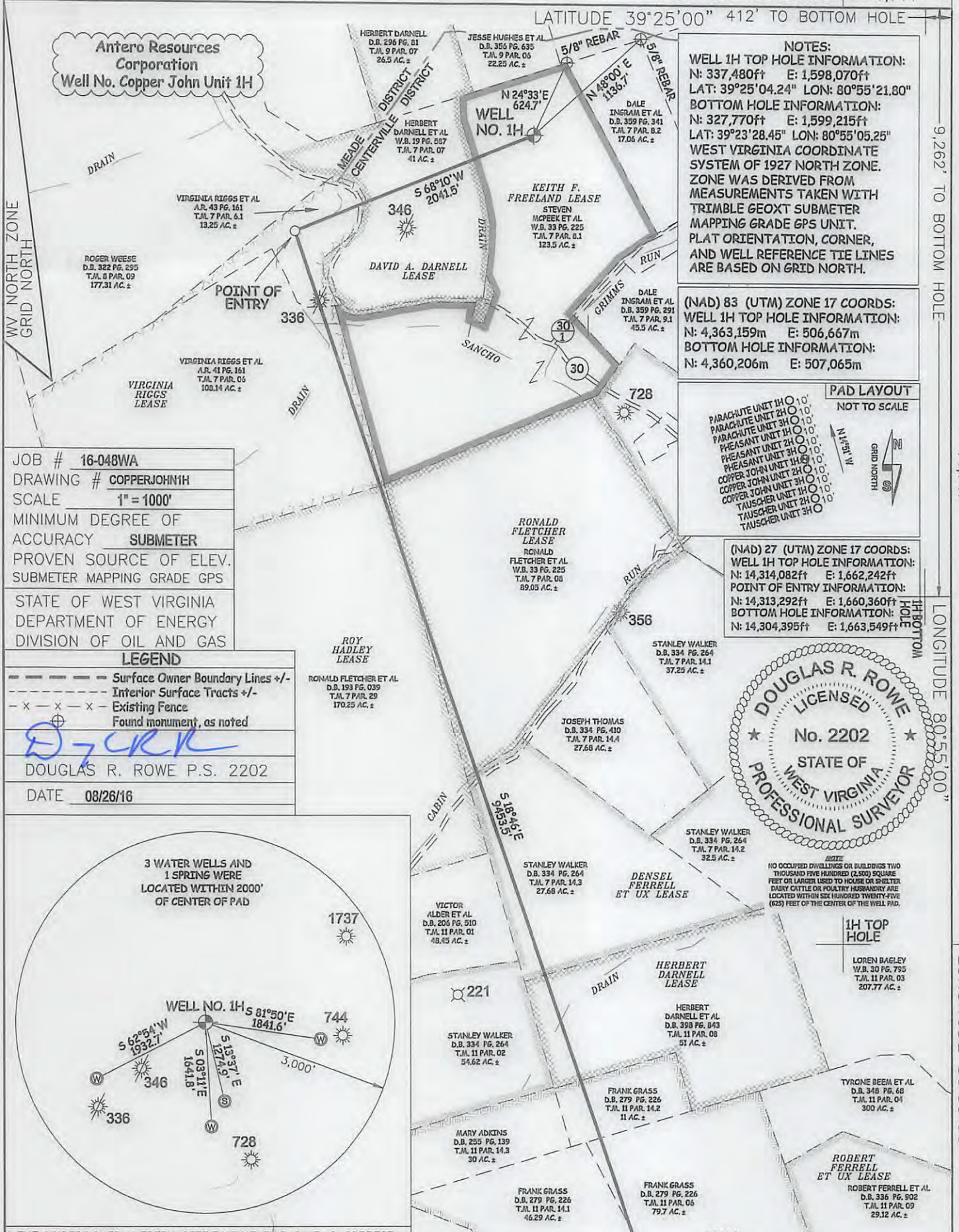
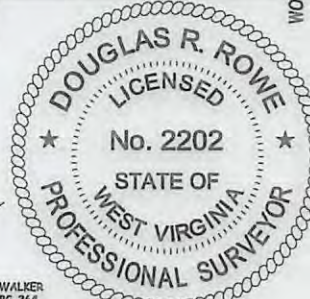
Antero Resources Corporation
Well No. Copper John Unit 1H

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 337,480ft E: 1,598,070ft
 LAT: 39°25'04.24" LON: 80°55'21.80"
 BOTTOM HOLE INFORMATION:
 N: 327,770ft E: 1,599,215ft
 LAT: 39°23'28.45" LON: 80°55'05.25"
 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: 4,363,159m E: 506,667m
 BOTTOM HOLE INFORMATION:
 N: 4,360,206m E: 507,065m



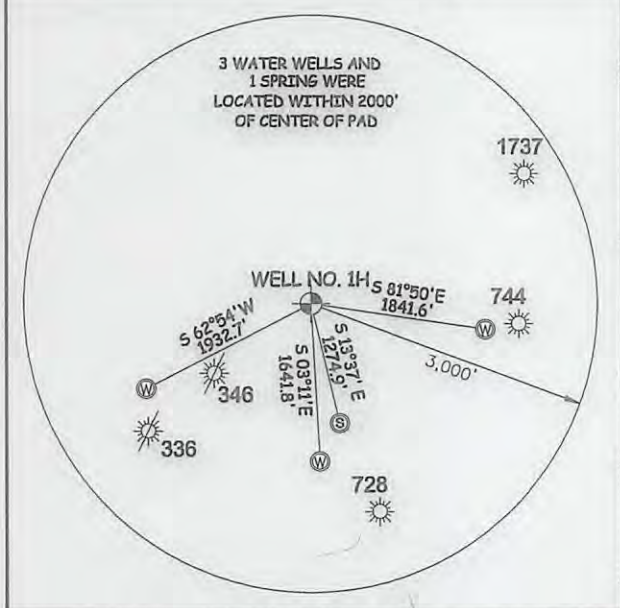
(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,314,082ft E: 1,662,242ft
 POINT OF ENTRY INFORMATION:
 N: 14,313,292ft E: 1,660,360ft
 BOTTOM HOLE INFORMATION:
 N: 14,304,395ft E: 1,663,549ft



JOB # 16-048WA
 DRAWING # COPPERJOHN1H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

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

DOUGLAS R. ROWE P.S. 2202
 DATE 08/26/16



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
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

REFERENCES



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 992' - ORIGINAL 982' - PROPOSED _____ WATERSHED OUTLET MIDDLE ISLAND CREEK STATE _____ COUNTY _____ PERMIT _____
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT CENTERVILLE COUNTY TYLER
 SURFACE OWNER STEVEN MCPEEK ET AL ACREAGE 123.5 ACRES +/-
 OIL & GAS ROYALTY OWNER KEITH F. FREELAND; DAVID A. DARNELL; VIRGINIA RIGGS; ROY HADLEY; RONALD FLETCHER; DENSEL FERRELL ET UX; HERBERT DARNELL; FRANK GRASS ET AL LEASE ACREAGE 123.5 AC±; 68.33AC±; 123 AC±; 178.25 AC±; 93 AC±; 248 AC±; 51 AC±; 431.29 AC±
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ PLUG & ABANDON _____ CLEAN OUT & REPLUG _____
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,600' TVD 16,800' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

03/17/2017

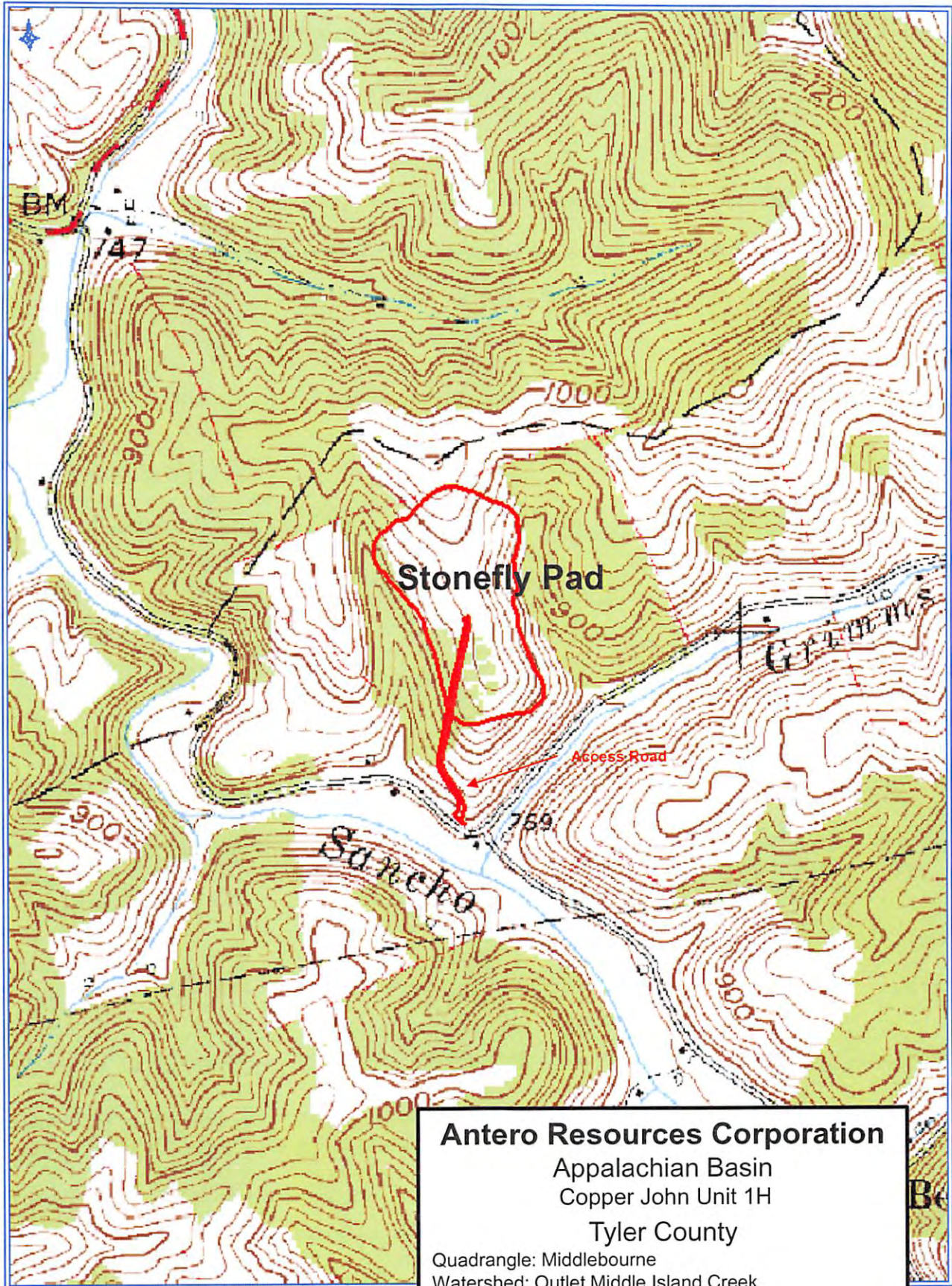
9,262' TO BOTTOM HOLE

LONGITUDE 80°55'00"

LONGITUDE 80°55'00"

14,747'

COUNTY NAME PERMIT



Antero Resources Corporation
Appalachian Basin
Copper John Unit 1H
Tyler County
Quadrangle: Middlebourne
Watershed: Outlet Middle Island Creek
District: Centerville
Date: 04-25-2016