

LATITUDE 39°15'00"

8,111'

LATITUDE 39°12'30"

LONGITUDE 80°55'00"

13,189'

8,507' TO BOTTOM HOLE

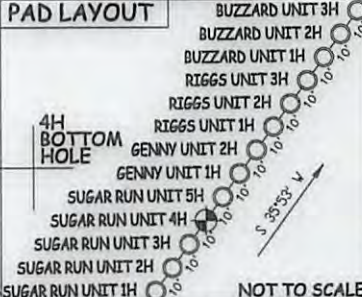
LONGITUDE 80°55'00"

Antero Resources Corporation Well No. Sugar Run Unit 4H

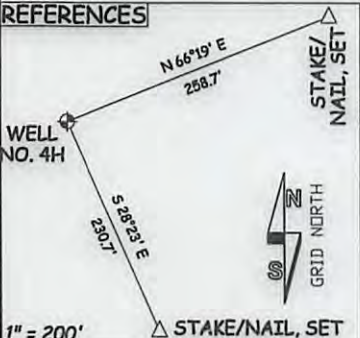
NOTES:
WELL 4H TOP HOLE INFORMATION:
 N: 263,271ft E: 1,590,498ft
 LAT: 39°12'49.64" LON: 80°56'43.05"
BOTTOM HOLE INFORMATION:
 N: 252,714ft E: 1,594,362ft
 LAT: 39°11'05.92" LON: 80°55'51.83"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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 4H TOP HOLE INFORMATION:
 N: 4,340,512m E: 504,738m
BOTTOM HOLE INFORMATION:
 N: 4,337,316m E: 505,968m

NOTE:
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HERDS/ANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

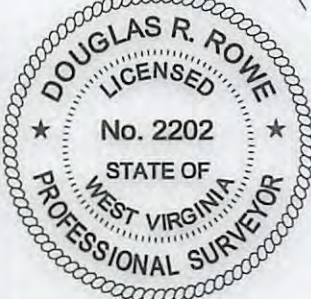


(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 4H TOP HOLE INFORMATION:
 N: 14,239,783ft E: 1,655,912ft
POINT OF ENTRY INFORMATION:
 N: 14,239,870ft E: 1,656,445ft
BOTTOM HOLE INFORMATION:
 N: 14,229,296ft E: 1,659,950ft



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

DOUGLAS R. ROWE P.S. 2202
 DATE 12/21/16
 OPERATOR'S WELL # SUGAR RUN UNIT #4H



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

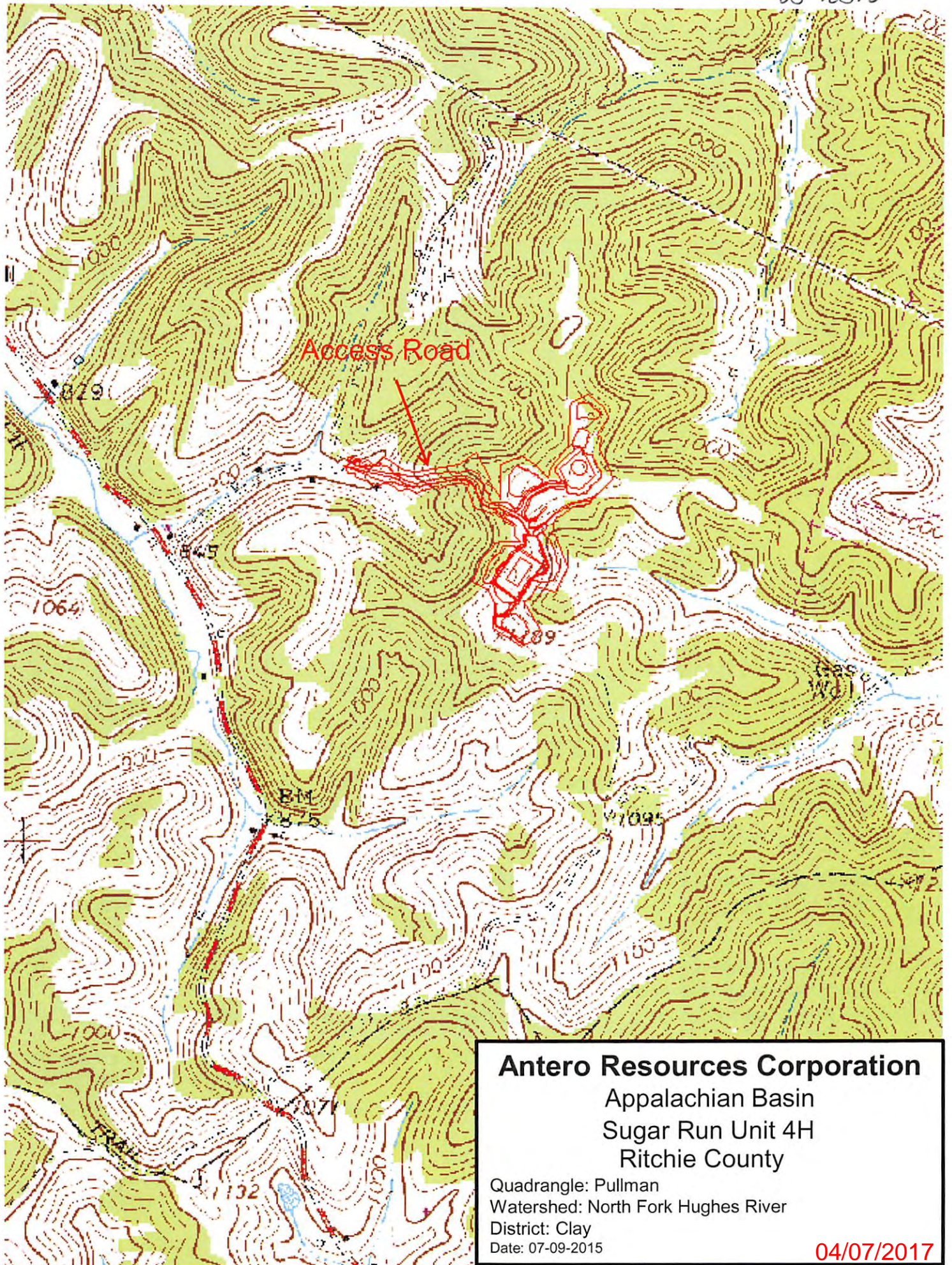
JOB # 12-063WA
 DRAWING # SUGARRUN4HR3
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 1,163' ORIGINAL - 1,149' PROPOSED
 WATERSHED NORTH FORK HUGHES RIVER QUADRANGLE PULLMAN 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER TERRY L. RICHARDS ACREAGE 60 ACRES +/-
 OIL & GAS ROYALTY OWNER LORETTA K. CLARK ET AL; HAUGHT FAMILY TRUST; LEASE ACREAGE 60 AC±; 38.7 AC±
 W.G. BURGAN ET AL; CLIFTON G. VALENTINE ET AL; O'NEIL FAMILY TRUST ET AL; JOHN A. CAMPBELL 154 AC±; 80.1 AC±; 571.83 AC±; 13.5 AC±
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL X
 (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,650' TVD 18,350' MD

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

47 - 085 - 10318 H6A
 API WELL # STATE COUNTY PERMIT
 COUNTY NAME PERMIT



Antero Resources Corporation
Appalachian Basin
Sugar Run Unit 4H
Ritchie County

Quadrangle: Pullman
Watershed: North Fork Hughes River
District: Clay
Date: 07-09-2015

04/07/2017