

LATITUDE 39°22'30"

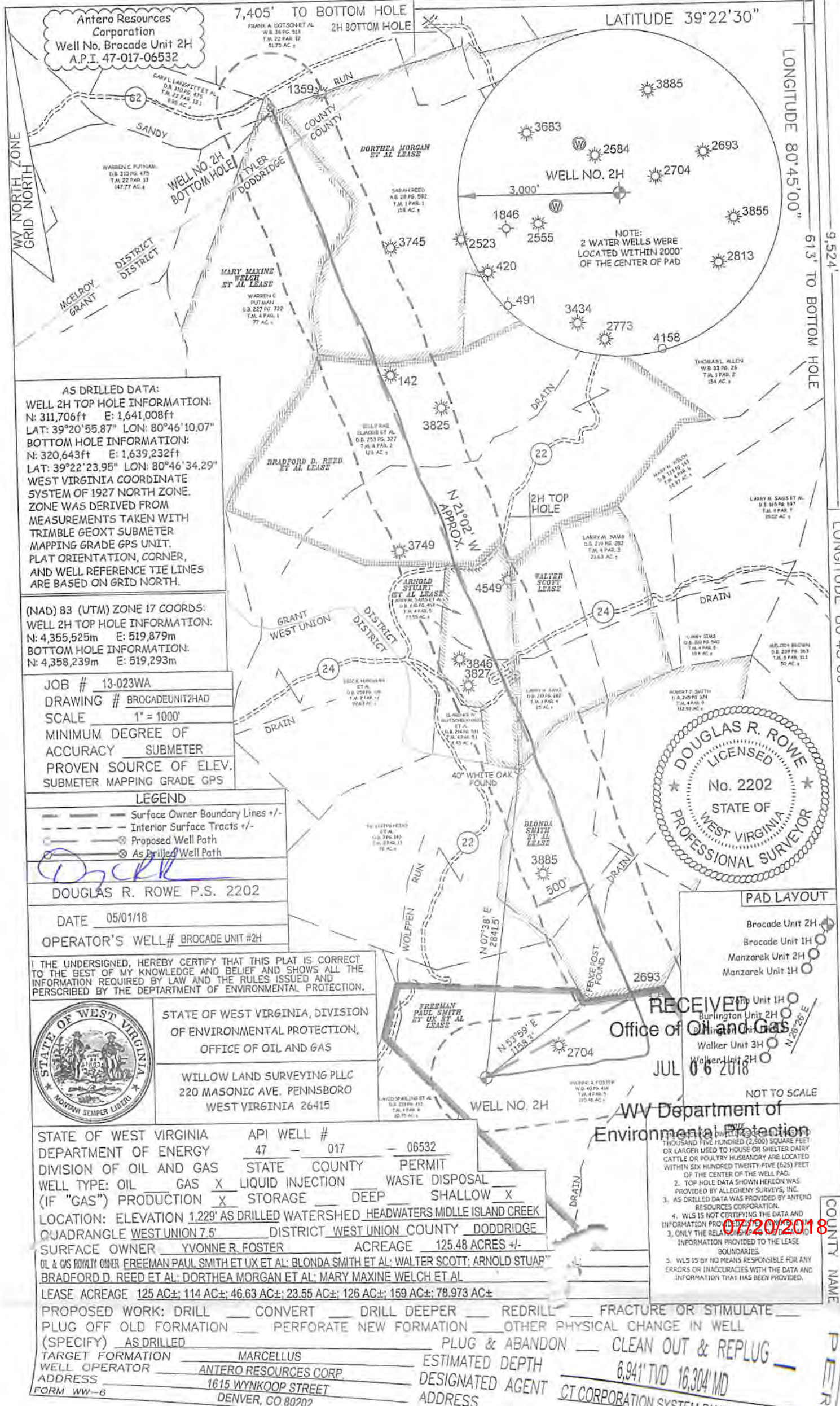
5,504'

LATITUDE 39°22'30"

LONGITUDE 80°45'00"

613' TO BOTTOM HOLE

LONGITUDE 80°45'00"



AS DRILLED DATA:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 311,706ft E: 1,641,008ft  
 LAT: 39°20'55.87" LON: 80°46'10.07"  
 BOTTOM HOLE INFORMATION:  
 N: 320,643ft E: 1,639,232ft  
 LAT: 39°22'23.95" LON: 80°46'34.29"  
 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: 4,355,525m E: 519,879m  
 BOTTOM HOLE INFORMATION:  
 N: 4,358,239m E: 519,293m

JOB # 13-023WA  
 DRAWING # BROCADEUNIT2HAD  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND  
 - - - Surface Owner Boundary Lines +/-  
 - - - Interior Surface Tracts +/-  
 - - - Proposed Well Path  
 - - - As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202  
 DATE 05/01/18  
 OPERATOR'S WELL# BROCADE UNIT #2H

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



PAD LAYOUT  
 Brocade Unit 2H  
 Brocade Unit 1H  
 Manzarek Unit 2H  
 Manzarek Unit 1H

RECEIVED  
 Office of Oil and Gas  
 JUL 06 2018

NOT TO SCALE  
 WV Department of Environmental Protection  
 1. THE TOTAL AREA OF THE WELL PAD IS APPROXIMATELY TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR PASTURE 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 BY ANTERO RESOURCES CORPORATION.  
 5. ONLY THE RELATIONSHIP OF THE WELL PAD TO THE BOUNDARIES OF THE SURVEYED TRACTS IS BEING CERTIFIED.  
 6. 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  
 API WELL # 47 - 017 - 06532  
 STATE COUNTY PERMIT  
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
 LOCATION: ELEVATION 1,229' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK QUADRANGLE WEST UNION 7.5' DISTRICT WEST UNION COUNTY DODDRIDGE  
 SURFACE OWNER YVONNE R. FOSTER ACREAGE 125.48 ACRES +/-  
 OIL & GAS ROYALTY OWNER FREEMAN PAUL SMITH ET UX ET AL; BLONDA SMITH ET AL; WALTER SCOTT; ARNOLD STUAR; BRADFORD D. REED ET AL; DORTHEA MORGAN ET AL; MARY MAXINE WELCH ET AL  
 LEASE ACREAGE 125 AC±; 114 AC±; 46.63 AC±; 23.55 AC±; 126 AC±; 159 AC±; 78.973 AC±  
 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  
 WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 6,941' TVD 16,304' MD  
 ADDRESS 1615 WYNKOOP STREET DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA  
 FORM WW-6 DENVER, CO 80202

COUNTY NAME

P E R M I T