

LATITUDE 39°22'30"

11,514'

4,195' TO BOTTOM HOLE

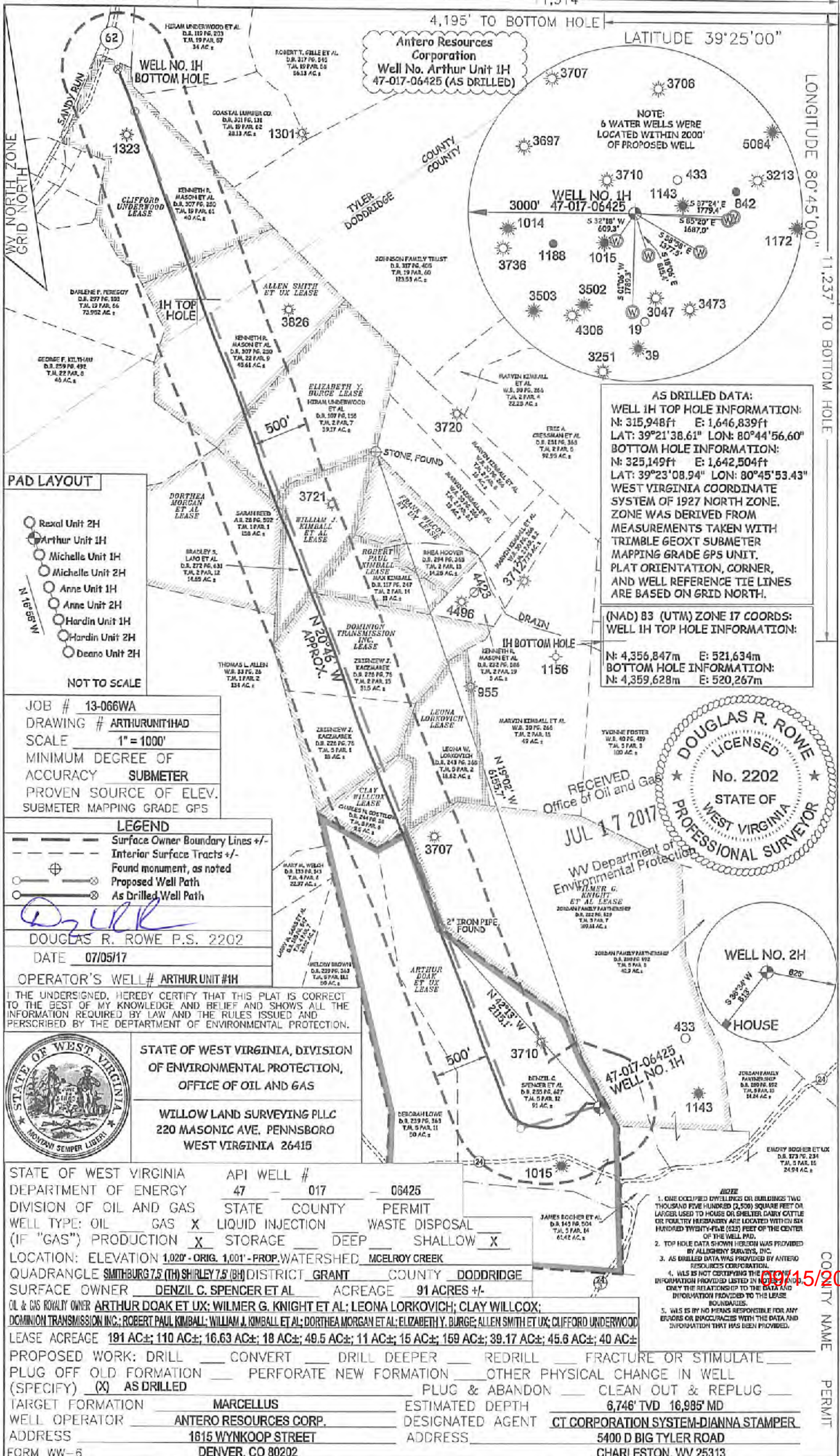
LATITUDE 39°25'00"

LONGITUDE 80°45'00"

5,200' TO BOTTOM HOLE

1,123' TO BOTTOM HOLE

LONGITUDE 80°42'30"



Antero Resources Corporation
 Well No. Arthur Unit 1H
 47-017-06425 (AS DRILLED)

NOTE:
 6 WATER WELLS WERE
 LOCATED WITHIN 2000'
 OF PROPOSED WELL

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 315,948ft E: 1,646,839ft
 LAT: 39°21'38.61" LON: 80°44'56.60"
BOTTOM HOLE INFORMATION:
 N: 325,149ft E: 1,642,504ft
 LAT: 39°23'08.94" LON: 80°45'53.43"
 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: 4,356,847m E: 521,634m
BOTTOM HOLE INFORMATION:
 N: 4,359,628m E: 520,267m



RECEIVED
 Office of Oil and Gas
 JUL 17 2017
 WV Department of
 Environmental Protection

JOB # 13-066WA
 DRAWING # ARTHURUNIT1HAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF
 ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV.
 SUBMETER MAPPING GRADE GPS

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

Drill
 DOUGLAS R. ROWE P.S. 2202
 DATE 07/05/17
 OPERATOR'S WELL# ARTHUR UNIT #1H

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 API WELL # 47-017-06425
 STATE COUNTY PERMIT
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,020' - ORIG. 1,001' - PROP. WATERSHED MCELROY CREEK
 QUADRANGLE SMITHBURG 7.5 (TH) SHIRLEY 7.5 (BH) DISTRICT GRANT COUNTY DODDRIDGE
 SURFACE OWNER DENZIL C. SPENCER ET AL ACREAGE 91 ACRES +/-
 OIL & GAS ROYALTY OWNER ARTHUR DOAK ET UX; WILMER G. KNIGHT ET AL; LEONA LORKOVICH; CLAY WILLCOX;
 DOMINION TRANSMISSION INC.; ROBERT PAUL KIMBALL; WILLIAM J. KIMBALL ET AL; DORTHEA MORGAN ET AL; ELIZABETH Y. BURGE; ALLEN SMITH ET UX; CLIFFORD UNDERWOOD

- NOTE
- ONE OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER CATTLE OR OTHER LIVESTOCK ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 - TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
 - AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 - WLS IS NOT CERTIFYING THE ACCURACY OF THE INFORMATION PROVIDED LISTED IN THIS PLAT AND OWNS THE RELIANCE UP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
 - WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

LEASE ACREAGE 191 AC±; 110 AC±; 16.63 AC±; 18 AC±; 49.5 AC±; 11 AC±; 15 AC±; 159 AC±; 39.17 AC±; 45.6 AC±; 40 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 ESTIMATED DEPTH 6,746' TVD 16,985' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME

PERMIT

09/15/2017