

LATITUDE 39°12'30"

6,862'

298' TO BOTTOM HOLE
LATITUDE 39°10'00"

LONGITUDE 80°52'30"

11,692' TO BOTTOM HOLE

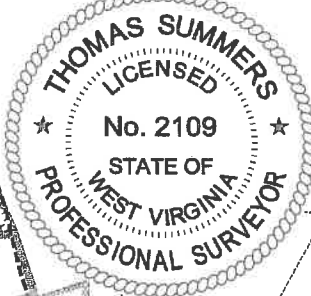
12,983'

LONGITUDE 80°52'30"

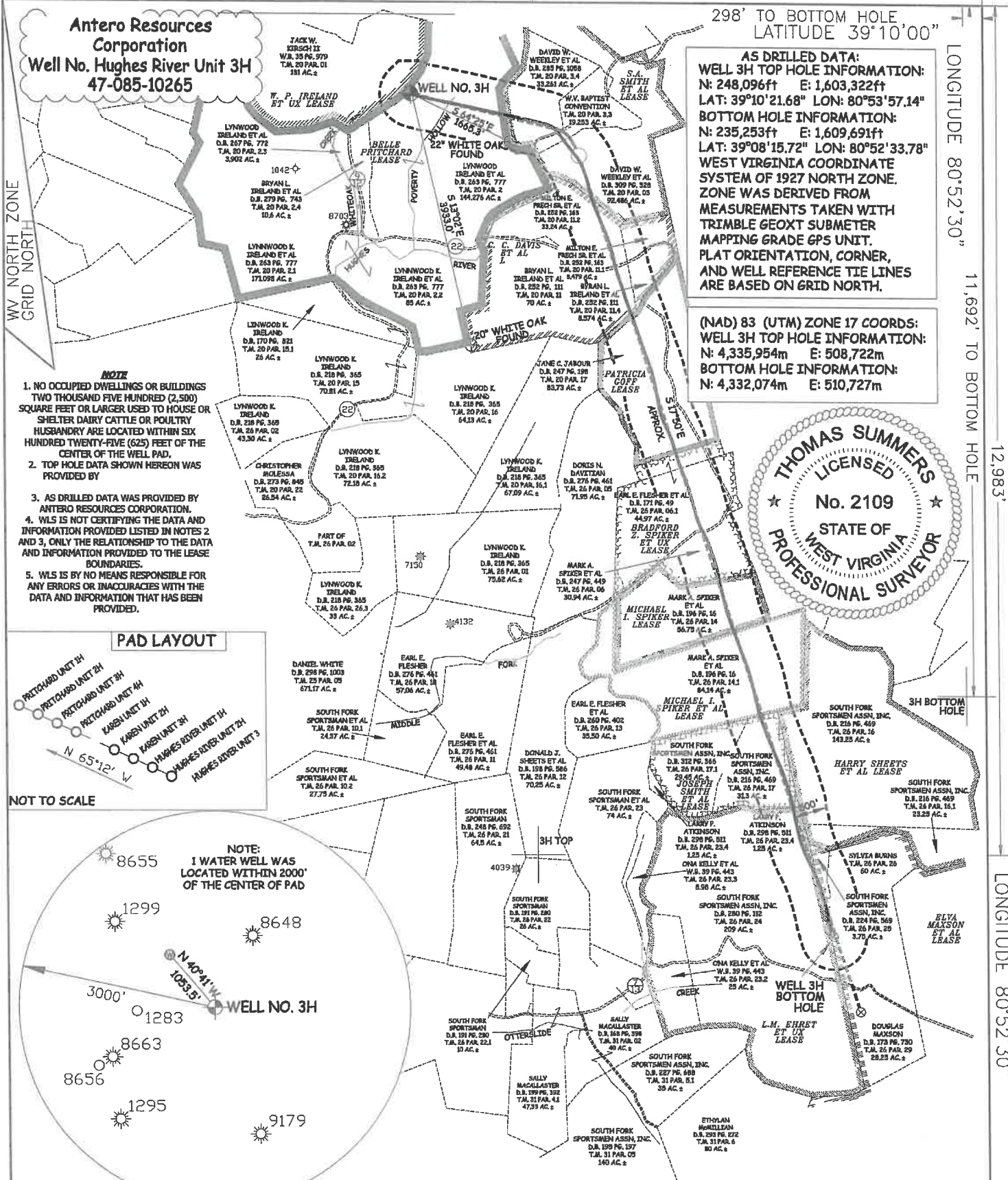
Antero Resources Corporation
Well No. Hughes River Unit 3H
47-085-10265

AS DRILLED DATA:
WELL 3H TOP HOLE INFORMATION:
N: 248,096ft E: 1,603,322ft
LAT: 39°10'21.68" LON: 80°53'57.14"
BOTTOM HOLE INFORMATION:
N: 235,253ft E: 1,609,691ft
LAT: 39°08'15.72" LON: 80°52'33.78"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE 6PS UNIT.
PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 3H TOP HOLE INFORMATION:
N: 4,335,954m E: 508,722m
BOTTOM HOLE INFORMATION:
N: 4,332,074m E: 510,727m

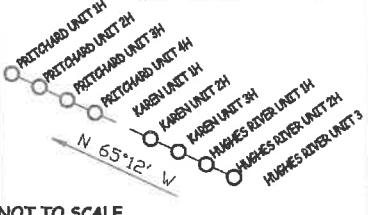


WV NORTH ZONE GRID NORTH

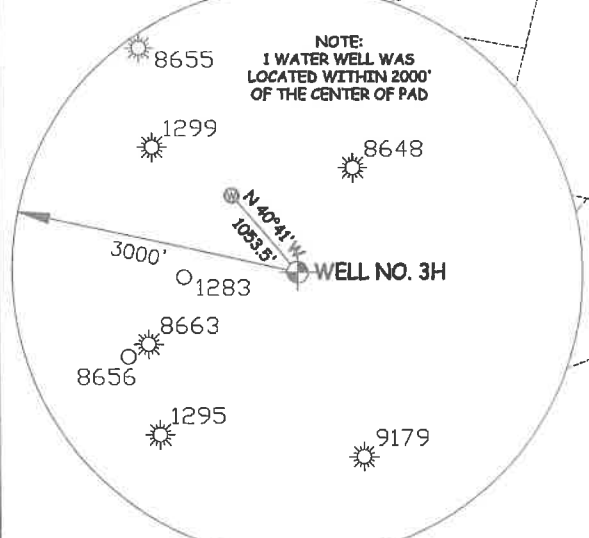


- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY. HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

PAD LAYOUT



NOT TO SCALE



JOB # **14-127WA**
DRAWING # **HUGHESRIVER3HAD**
SCALE **1" = 2000'**
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

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

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

Thomas Summers
 THOMAS SUMMERS P.S. 2109
 DATE **11/20/19**
 OPERATOR'S WELL# **HUGHES RIVER UNIT #3H**

API WELL # **47 - 085 - 10265**
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION **945.5' AS BUILT** WATERSHED **SOUTH FORK HUGHES RIVER**
 QUADRANGLE **PULLMAN 7.5' (TH) OXFORD 7.5' (BH)** DISTRICT **UNION**
 SURFACE OWNER **LYNWOOD IRELAND ET AL**
 OIL & GAS ROYALTY OWNER **BELLE PRITCHARD; S. A. SMITH ET AL;**
C. C. DAVIS ET AL; PATRICIA GOFF; BRADFORD Z. SPIKER ET UX; MICHAEL I. SPIKER;
MICHAEL I. SPIKER ET AL; JOSEPH SMITH ET AL; L. M. EHRET ET UX; ELVA MAXSON ET AL
 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 **6,358' TVD 19,531' MD**
 WELL OPERATOR **ANTERO RESOURCES CORP.** DESIGNATED AGENT **DIANNA STAMPER**
 ADDRESS **1615 WYNKOOP STREET** ADDRESS **CT CORPORATION SYSTEM**
DENVER, CO 80202 **5400 D BIG TYLER ROAD**
CHARLESTON, WV 25313

COUNTY **RITCHIE**
 ACREAGE **144.276 ACRES +/-**
 LEASE ACREAGE **415 AC±; 77 AC±;**
130 AC±; 82 AC±; 80 AC±; 56 AC±;
84.14 AC±; 63 AC±; 234 AC±; 240 AC±

FORM WW-6