

LATITUDE 39°12'30"

6,871'

LATITUDE 39°10'00" 1,676' TO BOTTOM HOLE

LONGITUDE 80°52'30"

9,525' TO BOTTOM HOLE

12,979'

LONGITUDE 80°52'30"

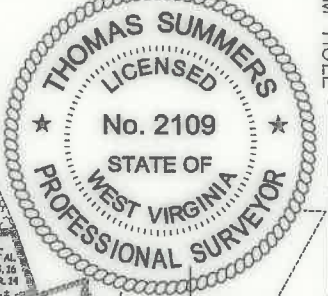
COUNTY NAME

PERMIT

Antero Resources Corporation  
Well No. Hughes River Unit 2H  
47-085-10214

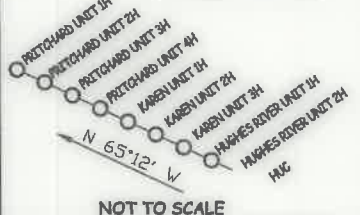
AS DRILLED DATA:  
WELL 2H TOP HOLE INFORMATION:  
N: 248,100ft E: 1,603,313ft  
LAT: 39°10'21.72" LON: 80°53'57.25"  
BOTTOM HOLE INFORMATION:  
N: 236,300ft E: 1,608,328ft  
LAT: 39°08'25.86" LON: 80°52'51.27"  
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. MEASUREMENTS TAKEN WITH TRIMBLE GEOXT 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: 4,335,956m E: 508,719m  
BOTTOM HOLE INFORMATION:  
N: 4,332,386m E: 510,307m



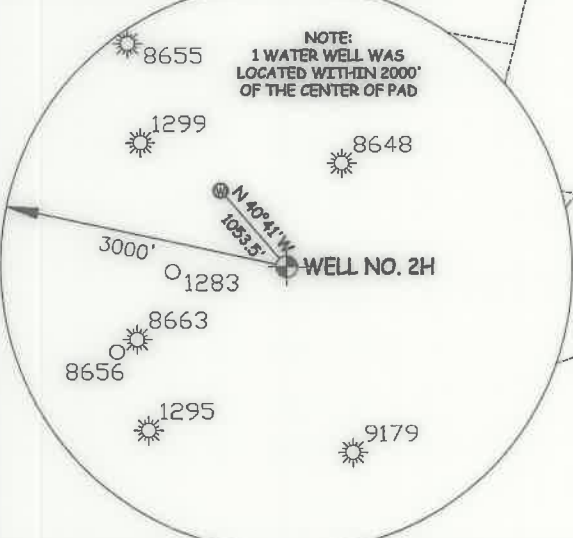
- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
  2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY
  3. AS 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

NOTE:  
1 WATER WELL WAS LOCATED WITHIN 2000' OF THE CENTER OF PAD



JOB # 14-127WA  
DRAWING # HUGHESRIVER2HAD  
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 P.S. 2109  
DATE 11/20/19  
OPERATOR'S WELL # HUGHES RIVER UNIT #2H

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' DISTRICT UNION COUNTY RITCHIE  
SURFACE OWNER LYNWOOD IRELAND ET AL ACREAGE 144.276 ACRES +/-  
OIL & GAS ROYALTY OWNER BELLE PRITCHARD; C. C. DAVIS ET AL; LEASE ACREAGE 410 AC±; 130 AC±;  
JOYCE E. WEBER; CHARLES CARSON; BRADFORD Z. SPIKER ET UX; MICHAEL I. SPIKER; 445.67 AC±; 71.95 AC±; 85 AC±; 56 AC±;  
MICHAEL I. SPIKER ET AL; JOSEPH SMITH ET AL; L. M. EHRET ET UX 84.14 AC±; 63 AC±; 234 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 6,367' TVD 19,235' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

LATITUDE 39°12'30"

6,871'

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LONGITUDE 80°52'30"

9,525' TO BOTTOM HOLE

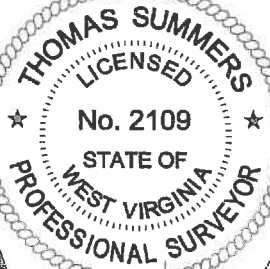
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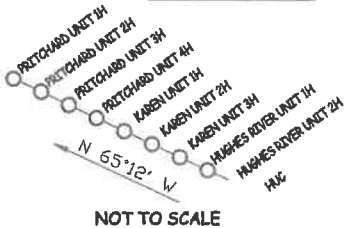
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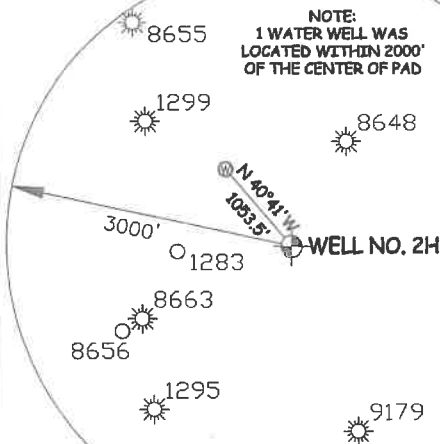
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API WELL # 47 - 085 - 10214  
STATE COUNTY PERMIT

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