

LATITUDE 39°20'00"

7,450'

6,461' TO BOTTOM HOLE

LATITUDE 39°17'30"

LONGITUDE 80°52'30"

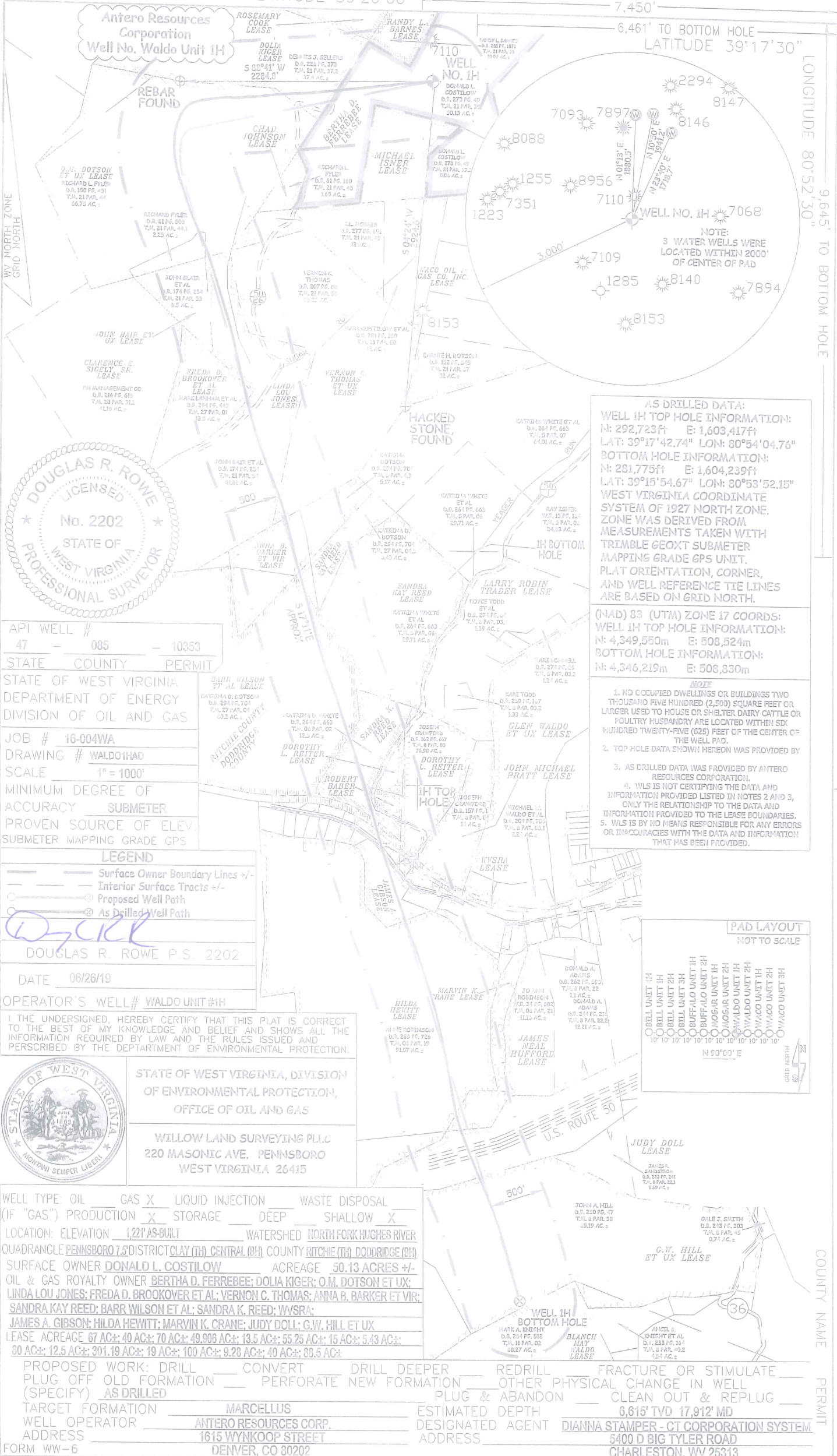
9,645' TO BOTTOM HOLE

LONGITUDE 80°52'30"

COUNTY NAME

PERMIT

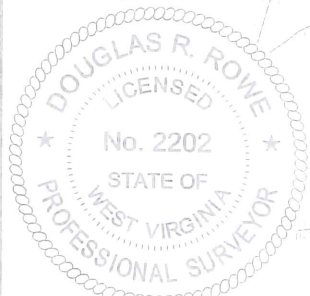
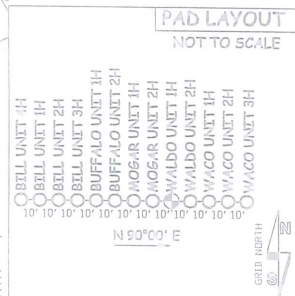
Antero Resources Corporation Well No. Waldo Unit 1H



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 292,723ft E: 1,603,417ft
 LAT: 39°17'42.74" LON: 80°54'04.76"
BOTTOM HOLE INFORMATION:
 N: 281,775ft E: 1,604,239ft
 LAT: 39°15'54.67" LON: 80°53'52.15"
 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: 4,349,550m E: 508,524m
BOTTOM HOLE INFORMATION:
 N: 4,346,219m E: 508,830m

- 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.



API WELL # 47 - 085 - 10353
 STATE COUNTY PERMIT
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 JOB # 16-004WA
 DRAWING # WALDO1HAD
 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 06/26/19

OPERATOR'S WELL# WALDO 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

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1,221' AS-BUILT WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PENNSBORO 7.5 DISTRICT CLAY (TH) CENTRAL (CH) COUNTY RITCHIE (TH) DODDRIDGE (CH)
 SURFACE OWNER DONALD L. COSTILOW ACREAGE 50.13 ACRES +/-
 OIL & GAS ROYALTY OWNER BERTHA D. FERREBEE; DOLIA KIGER; O.M. DOTSON ET UX;
 LINDA LOU JONES; FRED A. BROOKOVER ET AL; VERNON C. THOMAS; ANNA B. BARKER ET VIR;
 SANDRA KAY REED; BARR WILSON ET AL; SANDRA K. REED; WVSRA;
 JAMES A. GIBSON; HILDA HEWITT; MARVIN K. CRANE; JUDY DOLL; G.W. HILL ET UX
 LEASE ACREAGE 67 AC±; 40 AC±; 70 AC±; 49.906 AC±; 13.5 AC±; 55.25 AC±; 15 AC±; 5.43 AC±;
 80 AC±; 12.5 AC±; 301.19 AC±; 19 AC±; 100 AC±; 9.28 AC±; 40 AC±; 89.5 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 6,815' TVD 17,912' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313