

LATITUDE 39°20'00"

7,500'

9,417' TO BOTTOM HOLE

LATITUDE 39°20'00"

LONGITUDE 80°52'30"

7,586' TO BOTTOM HOLE

13,888'

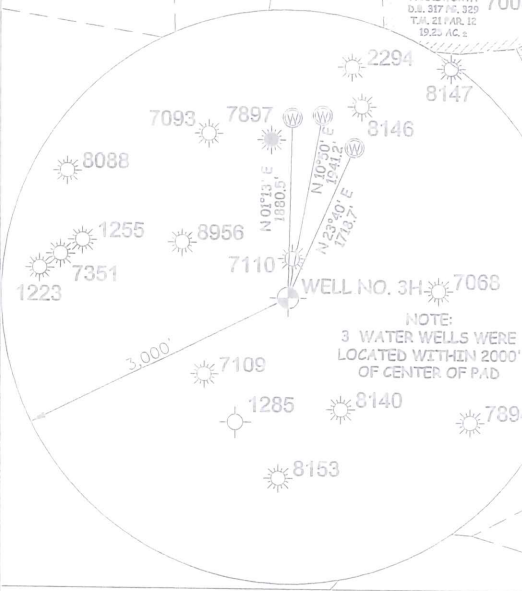
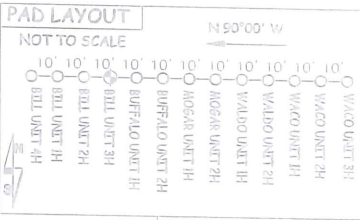
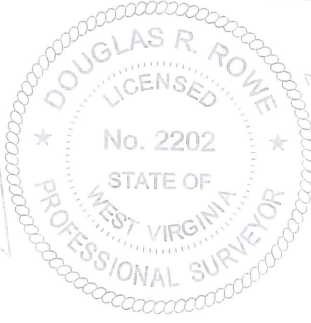
LONGITUDE 80°52'30"

Antero Resources Corporation  
Well No. Bill Unit 3H  
API 47-085-10257

AS DRILLED DATA:  
WELL 3H TOP HOLE INFORMATION:  
N: 292,723ft E: 1,603,367ft  
LAT: 39°17'42.73" LON: 80°54'05.40"  
BOTTOM HOLE INFORMATION:  
N: 299,054ft E: 1,601,547ft  
LAT: 39°18'45.02" LON: 80°54'29.81"  
WEST VIRGINIA COORDINATE  
SYSTEM OF 1927 NORTH ZONE.  
ZONE WAS DERIVED FROM  
MEASUREMENTS TAKEN WITH  
TRIMBLE 660XT 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 3H TOP HOLE INFORMATION:  
N: 4,349,550m E: 508,508m  
BOTTOM HOLE INFORMATION:  
N: 4,351,470m E: 507,922m

WV NORTH ZONE  
GRID NORTH



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

JOB # 15-030WA  
DRAWING # BILL3HAD  
SCALE 1" = 1000'  
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

LEGEND  
--- Surface Owner Boundary Lines +/-  
--- Interior Surface Tracts +/-  
--- Proposed Well Path  
--- As Drilled Well Path  
  
DATE 06/26/19  
OPERATOR'S WELL # BILL UNIT 3H

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 FOLLYTRY 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.

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ 47 - 085 - 10257  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X STATE COUNTY PERMIT  
LOCATION: ELEVATION 1,221' - AS BUILT WATERSHED NORTH FORK HUGHES RIVER  
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE  
SURFACE OWNER DONALD L. COSTILOW ACREAGE 50.13 ACRES +/-  
OIL & GAS ROYALTY OWNER BERTHA D. FERREBEE; RANDY L. BARNES; MICHAEL F. QUINN; NEW FREEDOM ENERGY, I.L.C.; LEASE ACREAGE 67 AC.; 10.05 AC.; 10.5 AC.; 7.76 AC.; 2.05 C±;  
JOHNNI ROBINSON; WINOLA H. CARMAN; DOLPH HICKMAN ET UX; KARL K. HICKMAN ET UX; EUGENIE COSTILOW ET UX; MAX D. JEWELL ET UX; E. HOWARD POOLE ET UX; CHARLES U. COSTILOW ET UX 10.65 AC.; 0.205 AC.; 31 AC.; 5.75 AC.; 54 AC.; 38 AC.; 23 AC.; 200 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 6,582' TVD 13,369' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313