

LATITUDE 39°27'30" 1,707'

LATITUDE 39°25'00" 204' TO BOTTOM HOLE

7,953' TO BOTTOM HOLE

14,758'

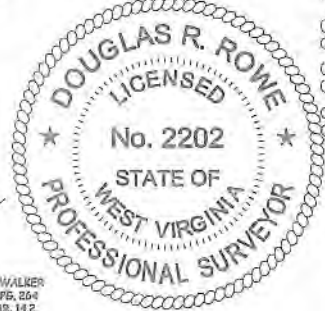
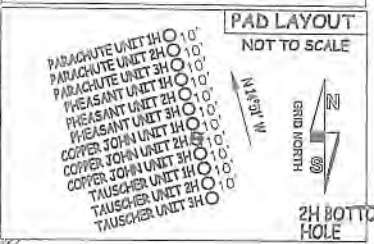
LONGITUDE 80°55'00"

LONGITUDE 80°55'00"

Antero Resources Corporation  
Well No. Copper John Unit 2H

AS DRILLED DATA:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 337,470ft E: 1,598,073ft  
 LAT: 39°25'04.14" LON: 80°55'21.75"  
 BOTTOM HOLE INFORMATION:  
 N: 329,075ft E: 1,599,443ft  
 LAT: 39°23'41.39" LON: 80°55'02.60"  
 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.

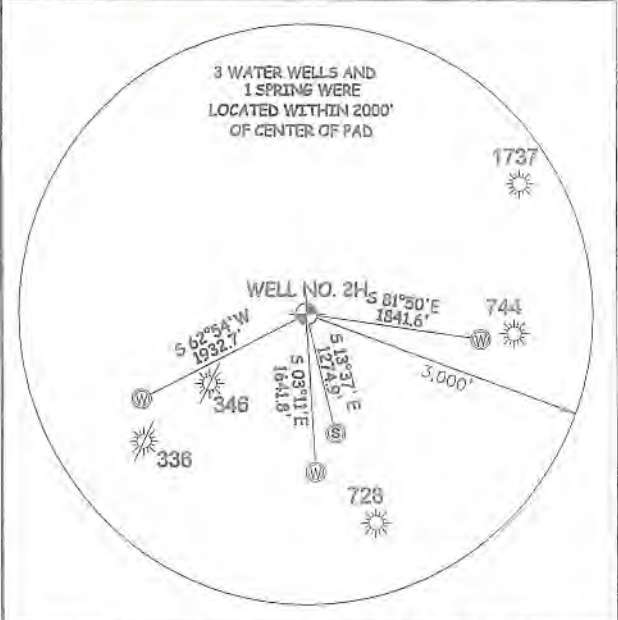
(NAD) 83 (UTM) ZONE 17 COORDS:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 4,363,155m E: 506,668m  
 BOTTOM HOLE INFORMATION:  
 N: 4,360,605m E: 507,128m



JOB # 16-048WA  
 DRAWING # COPPERJOHN2HAD  
 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 +/-  
 O Proposed Well Path  
 O As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202  
 DATE 03/06/19



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

- NOTES
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR FOLIURY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
  2. TOP HOLE DATA SHOWN HEREIN WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
  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 <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/>	OPERATOR'S WELL #	COPPER JOHN UNIT #2H	COUNTY NAME
(IF "GAS") PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	47 - 095 - 02405		
LOCATION: ELEVATION 882' AS BUILT	STATE	COUNTY	PERMIT
QUADRANGLE MIDDLEBOURNE 7.5'	DISTRICT	CENTERVILLE	COUNTY TYLER
SURFACE OWNER STEVEN MCPEEK ET AL	ACREAGE	123.5 ACRES +/-	
OIL & GAS ROYALTY OWNER KEITH F. FREELAND; DAVID A.DARNELL;	LEASE ACREAGE	123.5 AC±; 68.33 AC±;	
RONALD FLETCHER ET UX; RONALD P. FLETCHER ET AL; DENSEL FERRELL ET UX; HERBERT DARNELL; FRANK GRASS ET AL		93 AC±; 27.68 AC±; 248 AC±; 51 AC±; 431.29 AC±	
PROPOSED WORK: DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/>			
PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED			
TARGET FORMATION MARCELLUS	ESTIMATED DEPTH	6,365' TVD 15,000' 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	