

LATITUDE 39°20'00" 7,934' TO BOTTOM HOLE
LATITUDE 39°20'00" 3,323' TO BOTTOM HOLE

LONGITUDE 80°50'00" 11,311'

LONGITUDE 80°50'00"

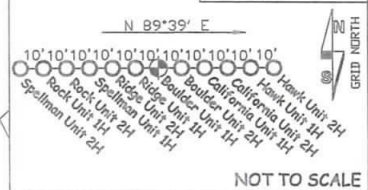
LONGITUDE 80°50'00"

Antero Resources Corporation
Well No. Boulder Unit 1H
47-017-06798

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 295,052ft E: 1,619,681ft
LAT: 39°18'08.21" LON: 80°50'38.36"
BOTTOM HOLE INFORMATION:
N: 303,113ft E: 1,614,881ft
LAT: 39°19'27.16" LON: 80°51'40.97"
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: 4,350,343m E: 513,466m
BOTTOM HOLE INFORMATION:
N: 4,352,774m E: 511,963m

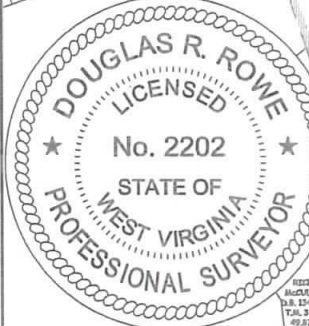
PAD LAYOUT



NOT TO SCALE

- 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 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.

WV NORTH ZONE GRID NORTH



JOB # 16-059WA
DRAWING # BOULDER1HAD
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
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,135.5' AS BUILT WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE
SURFACE OWNER JEFFREY K. JONES SR. ET AL ACREAGE 77.32 ACRES +/-
OIL & GAS ROYALTY OWNER DONALD L. PIGGOTT; C. BURKE MORRIS ET AL; MICHAEL D. HARRIS; LEASE ACREAGE 81 AC±; 94 AC±; 32.25 AC±;
NELL ALLEN; CINDA L. FLEMING ET VIR; RICHARD F. MCCULLOUGH ET UX; JOHN STATLER ET UX; 176 AC±; 99.25 AC±; 63.5 AC±; 56 AC±;
DAVID BOWYER; RICHARD MCCULLOUGH; EUGENE R. WALTON 1.25 AC±; 26 AC±; 137 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 6,610' TVD 15,970' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

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 PRESCRIBED 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

DOUGLAS R. ROWE P.S. 2202
DATE 07/17/18
OPERATOR'S WELL# BOULDER UNIT #1H
API WELL # 47 - 017 - 06798
STATE COUNTY PERMIT
DODDRIDGE COUNTY PERMIT

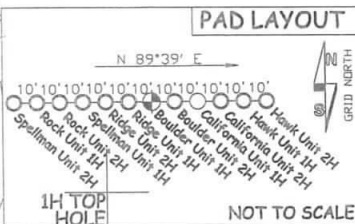
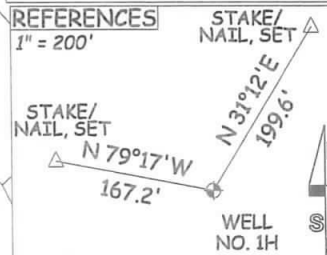
LATITUDE 39°20'00" 3,016'
 7,934' TO BOTTOM HOLE
 LATITUDE 39°20'00"

LONGITUDE 80°50'00" 3,323' TO BOTTOM HOLE
 11,311'

Antero Resources Corporation
Well No. Boulder Unit 1H
47-017-06798

NOTES:
WELL 1H TOP HOLE INFORMATION:
 N: 295,052ft E: 1,619,681ft
 LAT: 39°18'08.21" LON: 80°50'38.36"
BOTTOM HOLE INFORMATION:
 N: 303,113ft E: 1,614,881ft
 LAT: 39°19'27.16" LON: 80°51'40.97"
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: 4,350,343m E: 513,466m
BOTTOM HOLE INFORMATION:
 N: 4,352,774m E: 511,963m

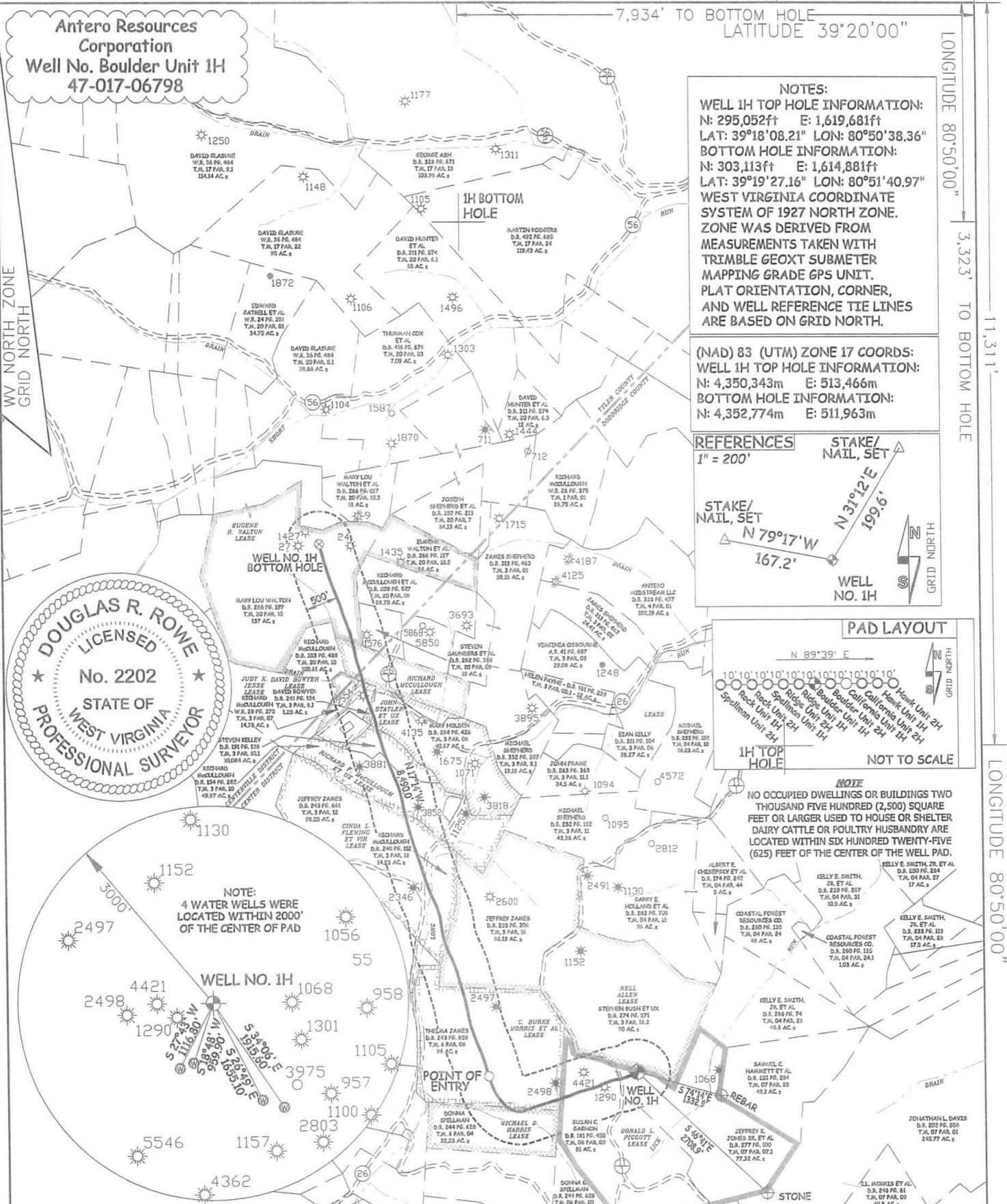
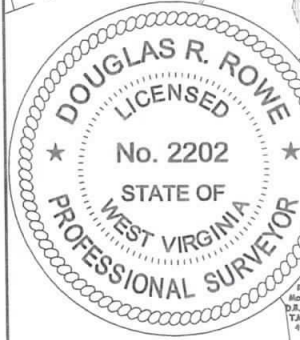


NOTE
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

WV NORTH ZONE GRID NORTH

GRID NORTH

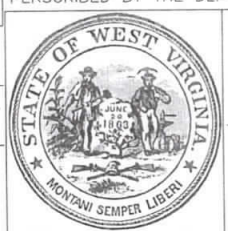
LONGITUDE 80°50'00"



NOTE:
 4 WATER WELLS WERE LOCATED WITHIN 2000' OF THE CENTER OF PAD

JOB # 16-059WA
 DRAWING # BOULDER1HMOD
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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 +/-
 - - - - - Existing Fence
 ⊕ Found Monument, as noted

DOUGLAS R. ROWE P.S. 2202

DATE 07/16/18
 OPERATOR'S WELL# BOULDER UNIT #1H

API WELL # 47 - 017 - 06798
 STATE COUNTY PERMIT

LOCATION: ELEVATION 1,135.5' AS BUILT WATERSHED HEADWATERS MIDDLE ISLAND CREEK
 QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE

SURFACE OWNER JEFFREY K. JONES SR. ET AL ACREAGE 77.32 ACRES +/-
 OIL & GAS ROYALTY OWNER DONALD L. PIGGOTT; C. BURKE MORRIS ET AL; MICHAEL D. HARRIS; LEASE ACREAGE 81 AC±; 94 AC±; 32.25 AC±; NELL ALLEN; CINDA L. FLEMING ET VIR; RICHARD F. MCCULLOUGH ET UX; JOHN STATLER ET UX; DAVID BOWYER; RICHARD MCCULLOUGH; EUGENE R. WALTON
176 AC±; 99.25 AC±; 63.5 AC±; 56 AC±; 1.25 AC±; 26 AC±; 137 AC±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD POE PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,810' TVD 15,970' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313