

11,136' TO BOTTOM HOLE

LATITUDE 39°15'00"

LONGITUDE 80°50'00"

LONGITUDE 80°52'30"

LONGITUDE 80°55'00"

LONGITUDE 80°57'30"

LONGITUDE 80°59'00"

LONGITUDE 80°59'30"

LONGITUDE 81°00'00"

Antero Resources Corporation
Well No. McNabb Unit 4H
API #47-085-10199

A- JOSEPH E. HAUGHT ET AL. D.B. 144 AC. 347 T.M. 15 PAR. 033 1 AC.
B- JOSEPH E. HAUGHT ET AL. D.B. 230 AC. 723 T.M. 15 PAR. 032 1 AC.
C- KEVIN E. BRITTON ET AL. D.B. 210 AC. 670 T.M. 15 PAR. 034 225 AC.
D- W.L. BRITTON ET AL. D.B. 140 AC. 33 T.M. 15 PAR. 031 2747 AC.

AS DRILLED DATA:
WELL 4H TOP HOLE INFORMATION:
N: 271,994ft E: 1,604,302ft
LAT: 39°14'18.01" LON: 80°53'49.41"
BOTTOM HOLE INFORMATION:
N: 261,171ft E: 1,611,057ft
LAT: 39°12'32.08" LON: 80°52'21.47"
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 4H TOP HOLE INFORMATION:
N: 4,343,240m E: 508,899m
BOTTOM HOLE INFORMATION:
N: 4,339,977m E: 511,011m

RECEIVED
Office of Oil and Gas
JUL 17 2017

WV Department of Environmental Protection

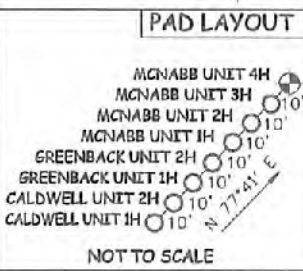
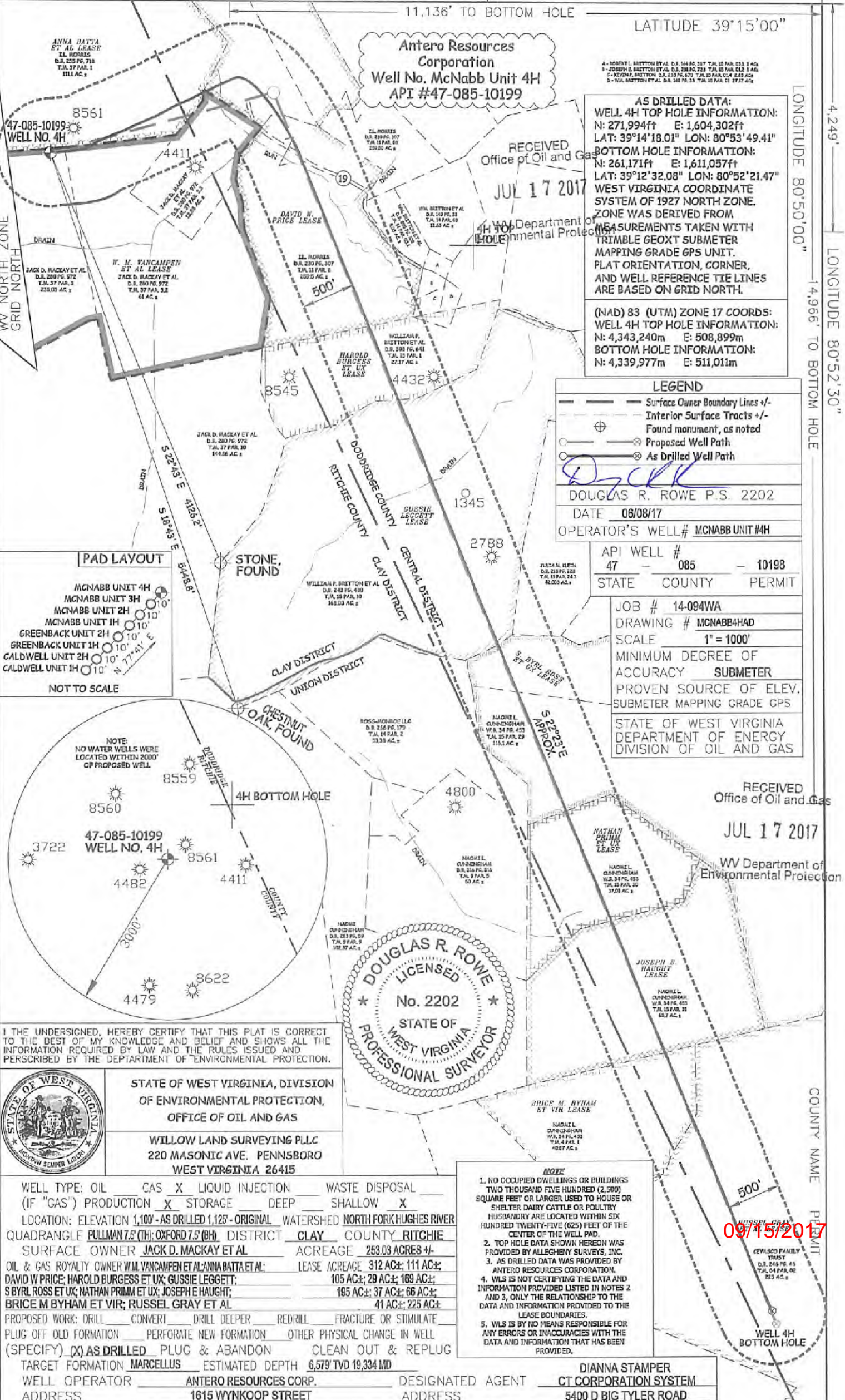
LEGEND
- - - Surface Owner Boundary Lines +/-
--- Interior Surface Tracts +/-
⊕ Found monument, as noted
○ Proposed Well Path
⊗ As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202
DATE 08/08/17
OPERATOR'S WELL # MCNABB UNIT #4H

API WELL # 47 - 085 - 10198
STATE COUNTY PERMIT
JOB # 14-094WA
DRAWING # MCNABB4HAD
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

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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 CAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,100' - AS DRILLED 1,125' - ORIGINAL WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE PULLMAN 7.5 (TH); OXFORD 7.5 (BH) DISTRICT CLAY COUNTY RITCHIE
SURFACE OWNER JACK D. MACKAY ET AL ACREAGE 253.03 ACRES +/-
OIL & GAS ROYALTY OWNER W.M. VINCAMPEN ET AL; ANNA DATTA ET AL; LEASE ACREAGE 312 AC.; 111 AC.;
DAVID W PRICE; HAROLD BURGESS ET UX; GUSSIE LEGGETT; 105 AC.; 29 AC.; 169 AC.;
S BYRL ROSS ET UX; NATHAN PRIMM ET UX; JOSEPH E HAUGHT; 185 AC.; 37 AC.; 66 AC.;
BRICE M BYHAM ET VIR; RUSSEL GRAY ET AL 41 AC.; 225 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 6,579' TVD 19,334 MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD

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.

09/15/2017

DIANNA STAMPER
CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD