

LATITUDE 39°22'30"

6,966'

LATITUDE 39°22'30"

3,344'

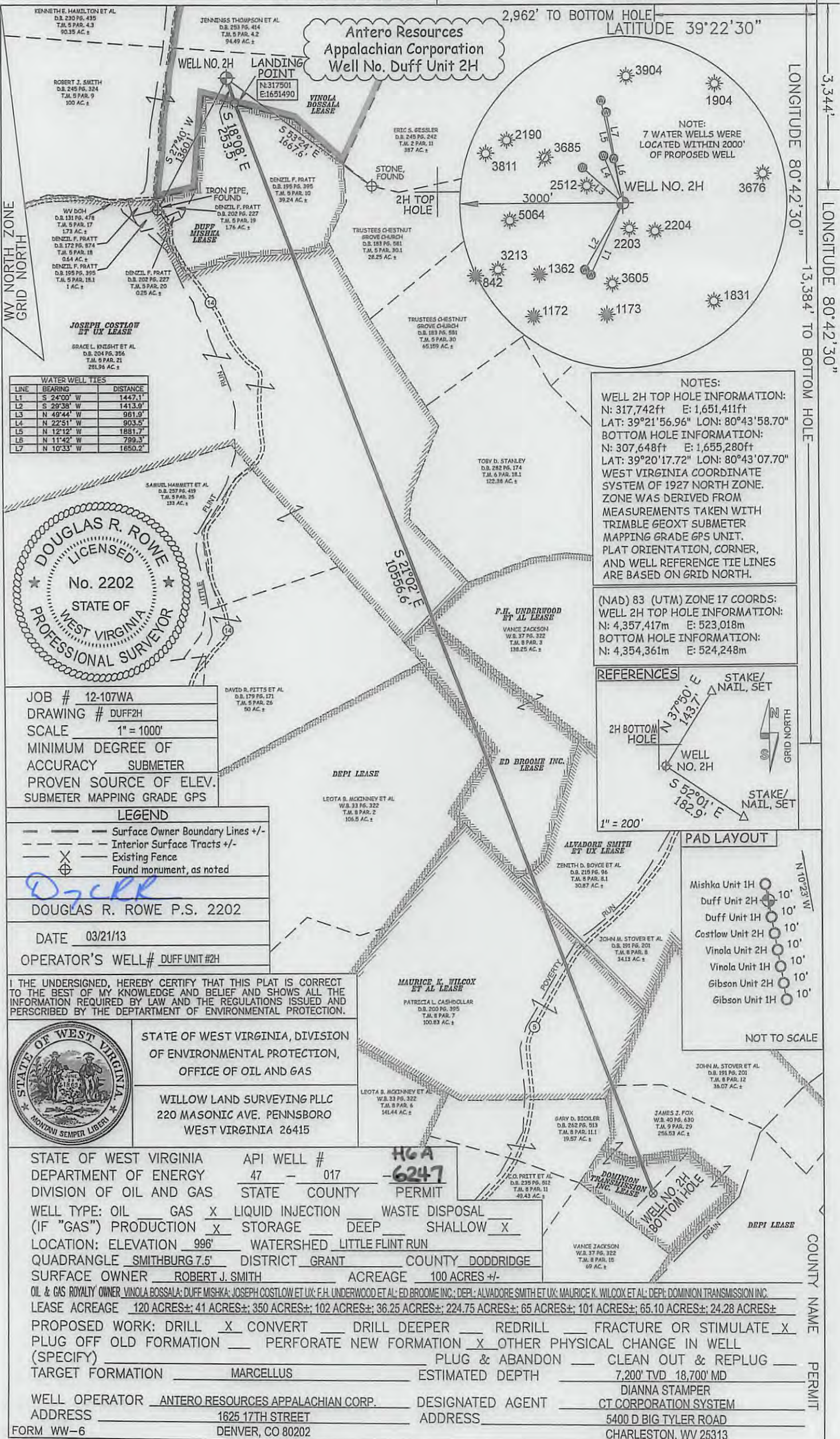
LONGITUDE 80°42'30"

LONGITUDE 80°42'30"

13,384' TO BOTTOM HOLE

COUNTY NAME PERMIT

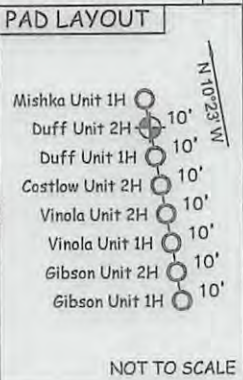
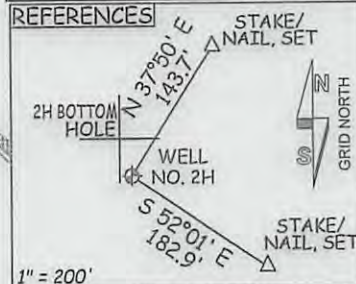
Antero Resources Appalachian Corporation Well No. Duff Unit 2H



LINE	BEARING	DISTANCE
L1	S 24°00' W	1447.1'
L2	S 26°30' W	1413.0'
L3	N 49°44' W	961.0'
L4	N 22°51' W	903.5'
L5	N 12°12' W	1881.7'
L6	N 11°42' W	799.3'
L7	N 10°33' W	1650.2'

NOTES:
 WELL 2H TOP HOLE INFORMATION:
 N: 317,742ft E: 1,651,411ft
 LAT: 39°21'56.96" LON: 80°43'58.70"
 BOTTOM HOLE INFORMATION:
 N: 307,648ft E: 1,655,280ft
 LAT: 39°20'17.72" LON: 80°43'07.70"
 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: 4,357,417m E: 523,018m
 BOTTOM HOLE INFORMATION:
 N: 4,354,361m E: 524,248m



JOB # 12-107WA
 DRAWING # DUFF2H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
 --- Surface Owner Boundary Lines +/-
 --- Interior Surface Tracts +/-
 --- Existing Fence
 ⊕ Found monument, as noted

DOUGLAS R. ROWE P.S. 2202
 DATE 03/21/13
 OPERATOR'S WELL# DUFF UNIT #2H

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 REGULATIONS 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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

API WELL # HGA 47-017-6247

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 996' WATERSHED LITTLE FLINT RUN
 QUADRANGLE SMITHBURG 7.5' DISTRICT GRANT COUNTY DODDRIDGE

SURFACE OWNER ROBERT J. SMITH ACREAGE 100 ACRES +/-

OIL & GAS ROYALTY OWNER VINOLA BOSSALA; DUFF MISHKA; JOSEPH COSTLOW ET UX; F.H. UNDERWOOD ET AL; ED BROOME INC.; DEPI; ALVADORE SMITH ET UX; MAURICE K. WILCOX ET AL; DEPI; DOMINION TRANSMISSION INC.

LEASE ACREAGE 120 ACRES±; 41 ACRES±; 350 ACRES±; 102 ACRES±; 36.25 ACRES±; 224.75 ACRES±; 65 ACRES±; 101 ACRES±; 65.10 ACRES±; 24.28 ACRES±

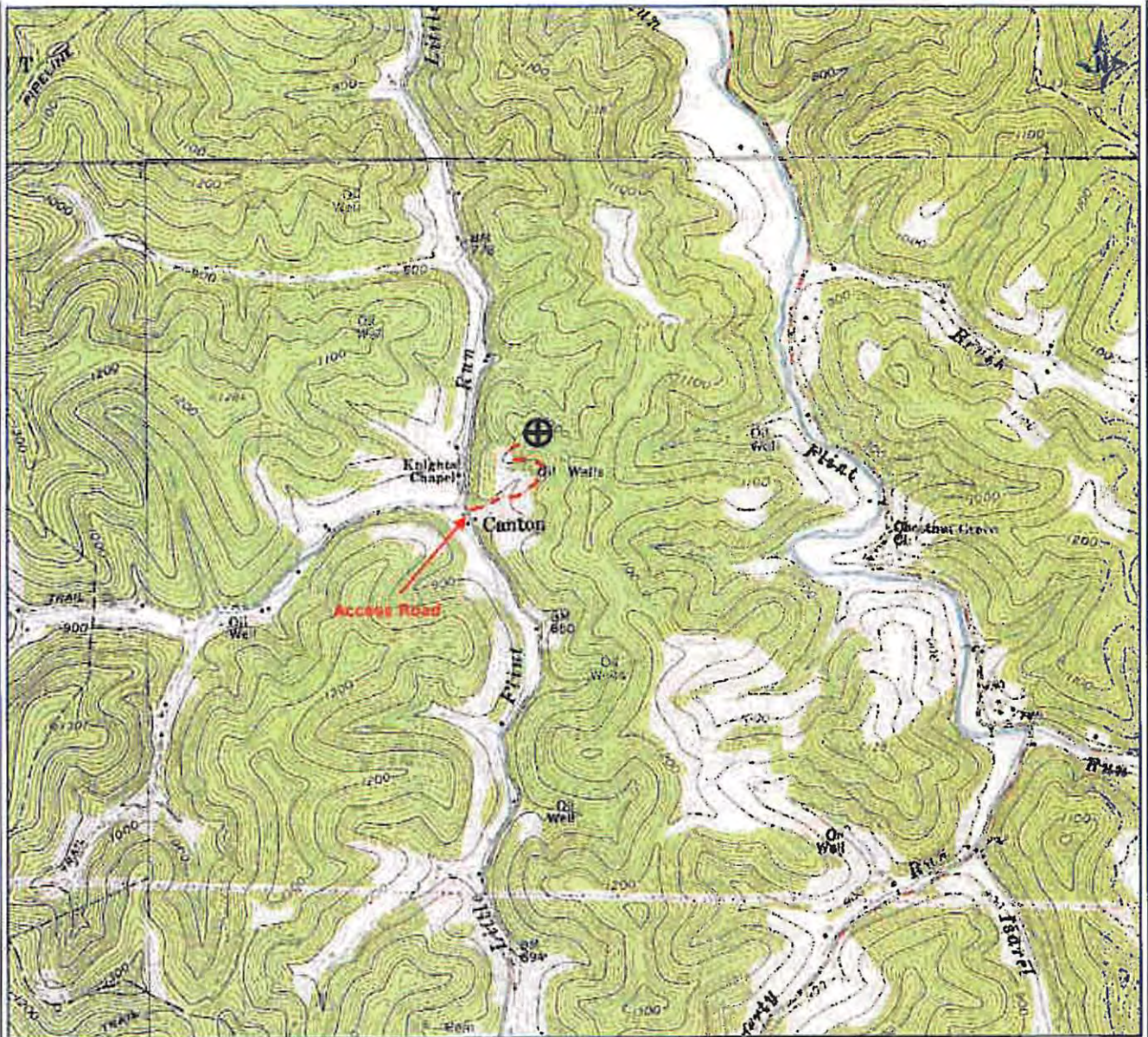
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,200' TVD 18,700' MD

WELL OPERATOR ANTERO RESOURCES APPALACHIAN CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

06/21/2013

DCW
4-19-2013



PETRA 2/6/2013 3:22:34 PM

17-06247 H6A DUFF UNIT 2H
ANTERO RESOURCES

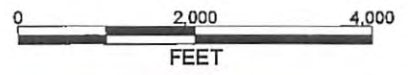
PAD NAME: RJ SMITH DRILL PAD

Antero Resources Corporation

Appalachian Basin

Duff Unit 2H

Doddridge County



REMARKS
 QUADRANGLE: SMITHBURG
 WATERSHED: LITTLE FLINT RUN
 DISTRICT: GRANT

Received _____
 February 6, 2013 Office of Oil & Gas

APR 23 2013