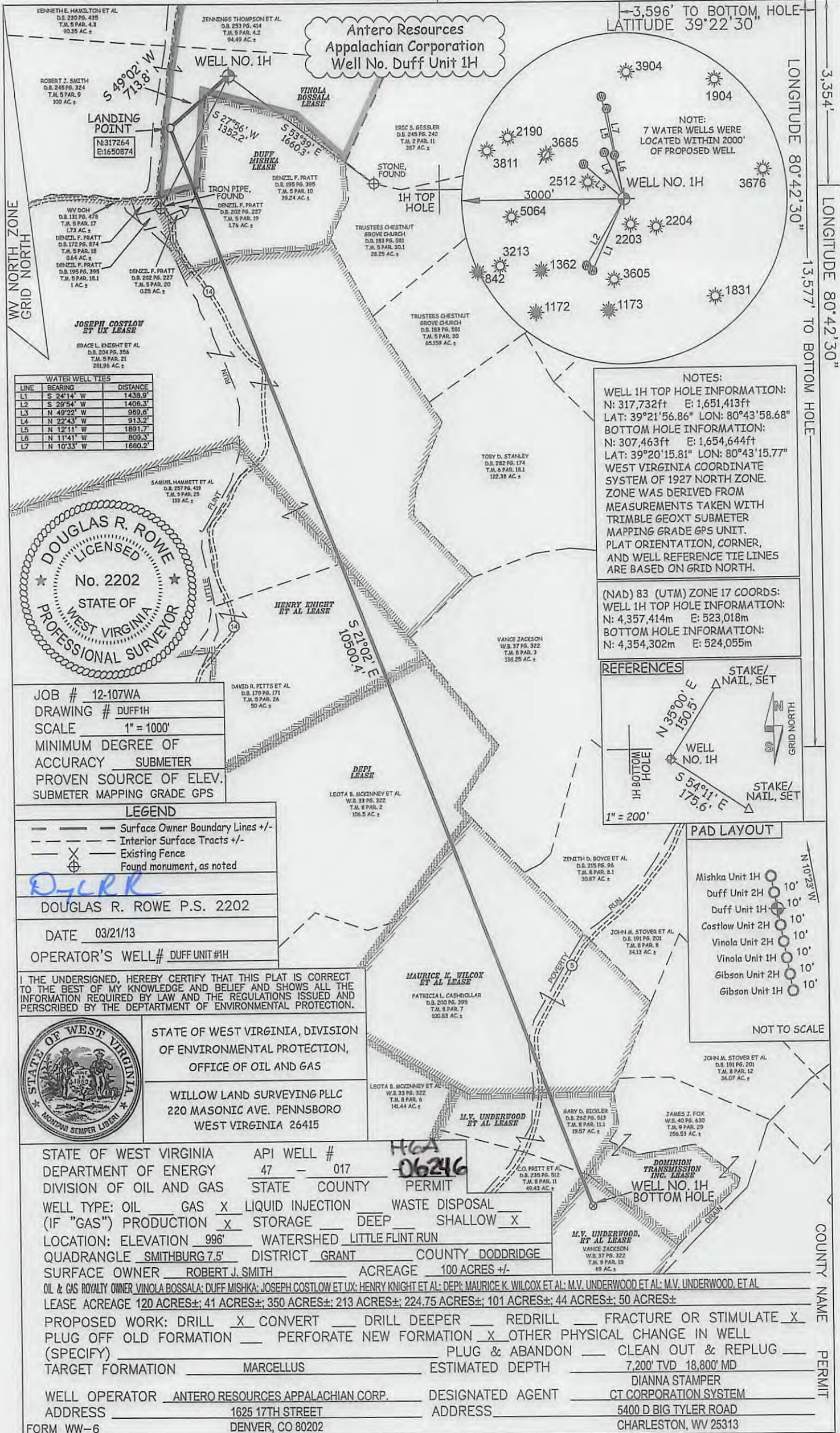


LATITUDE 39°22'30"

6,964'

3,596' TO BOTTOM HOLE
LATITUDE 39°22'30"

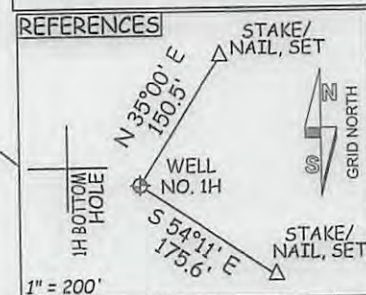
Antero Resources
Appalachian Corporation
Well No. Duff Unit 1H



LINE	BEARING	DISTANCE
L1	S 24°14' W	1438.5'
L2	S 29°54' W	1405.3'
L3	N 49°22' W	969.6'
L4	N 27°43' W	913.2'
L5	N 12°11' W	1891.7'
L6	N 11°41' W	809.3'
L7	N 10°33' W	1660.2'

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 317,732ft E: 1,651,413ft
LAT: 39°21'56.86" LON: 80°43'58.68"
BOTTOM HOLE INFORMATION:
N: 307,463ft E: 1,654,644ft
LAT: 39°20'15.81" LON: 80°43'15.77"
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: 4,357,414m E: 523,018m
BOTTOM HOLE INFORMATION:
N: 4,354,302m E: 524,055m



JOB # 12-107WA
DRAWING # DUFF1H
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 #1H

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 # 47-017
STATE COUNTY PERMIT HGA-06246

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; HENRY KNIGHT ET AL; DEPI; MAURICE K. WILCOX ET AL; M.V. UNDERWOOD ET AL; M.V. UNDERWOOD, ET AL

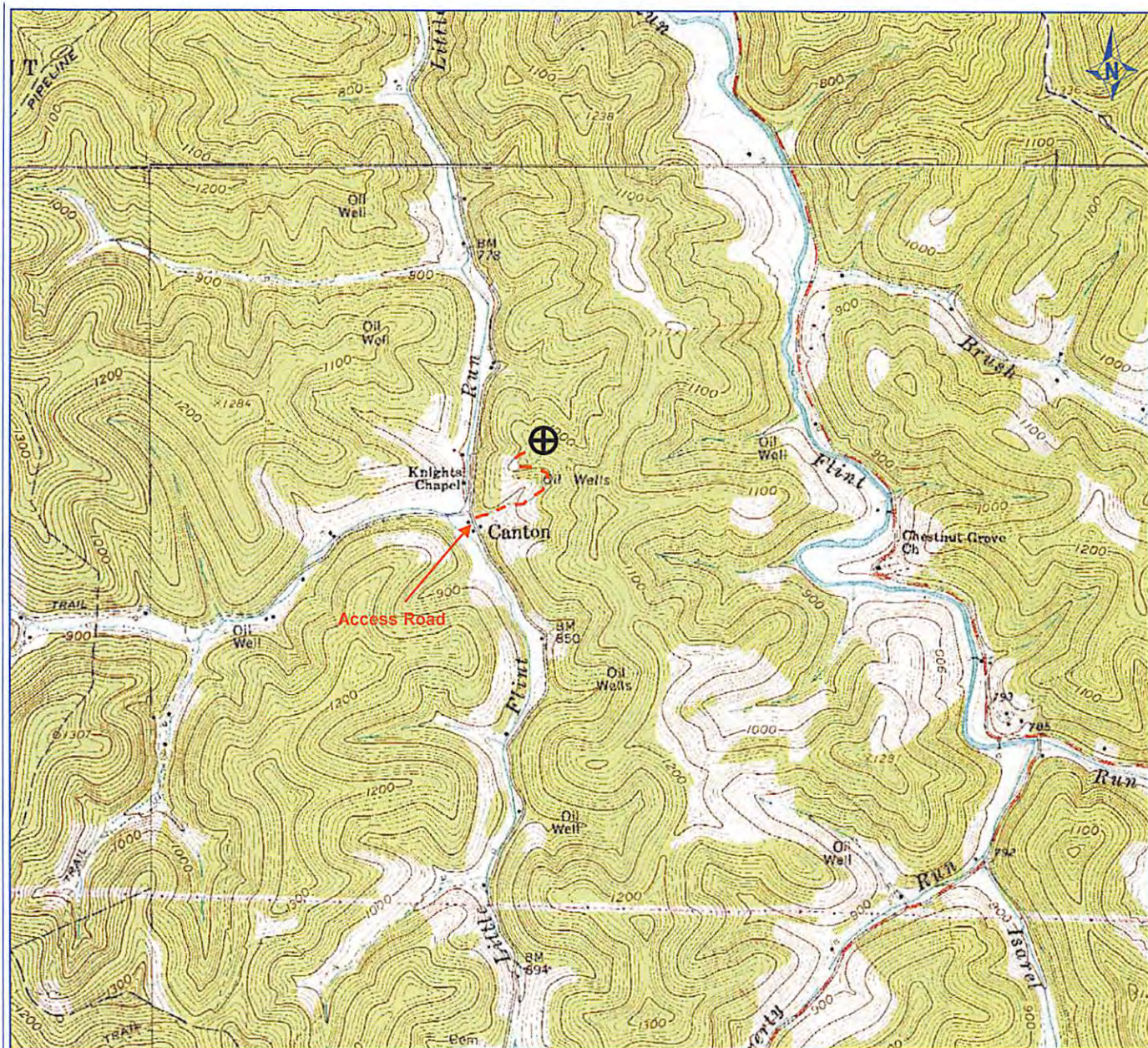
LEASE ACREAGE 120 ACRES±; 41 ACRES±; 350 ACRES±; 213 ACRES±; 224.75 ACRES±; 101 ACRES±; 44 ACRES±; 50 ACRES±

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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,200' TVD 18,800' MD

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

06/21/2013



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

17-06246 H6A DUFF UNIT 1H
ANTERO RESOURCES

PAD NAME: RJ SMITH

Antero Resources Corporation

Appalachian Basin

Duff Unit 1H

Doddridge County



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

February 6 2013

OIL & NATURAL GAS
 MAR 28 2013
 Environmental Protection Department of