

LATITUDE 39°22'30"

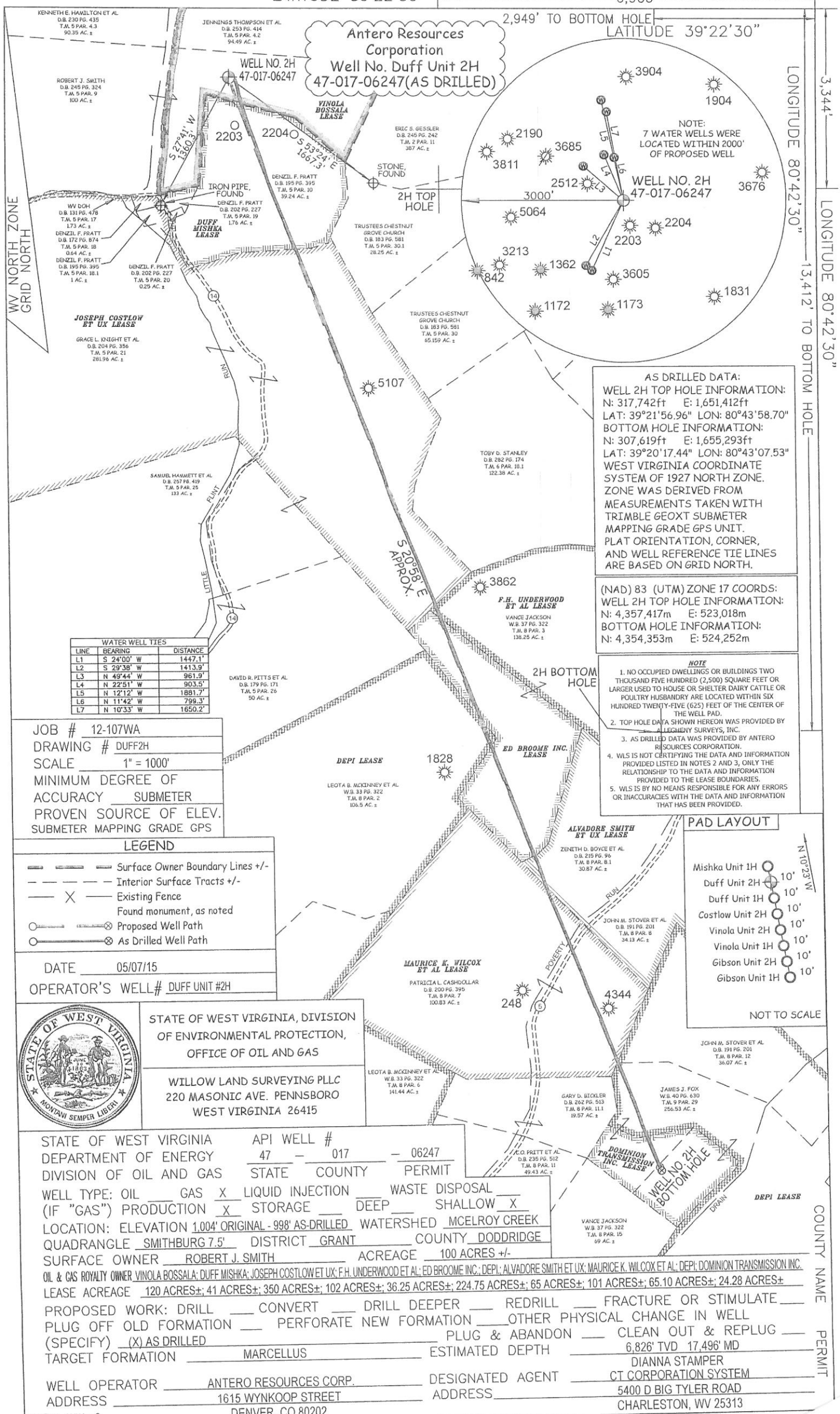
6,966'

LATITUDE 39°22'30"

LONGITUDE 80°42'30"

LONGITUDE 80°42'30"

LONGITUDE 80°42'30"



Antero Resources Corporation
Well No. Duff Unit 2H
47-017-06247 (AS DRILLED)

NOTE:
7 WATER WELLS WERE
LOCATED WITHIN 2000'
OF PROPOSED WELL

AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 317,742ft E: 1,651,412ft
LAT: 39°21'56.96" LON: 80°43'58.70"
BOTTOM HOLE INFORMATION:
N: 307,619ft E: 1,655,293ft
LAT: 39°20'17.44" LON: 80°43'07.53"
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: 4,354,353m E: 524,252m

- 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.

| LINE | BEARING | DISTANCE |
|------|------------|----------|
| L1 | S 24°00' W | 1447.1' |
| L2 | S 29°38' W | 1413.9' |
| L3 | N 49°44' W | 961.9' |
| 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' |

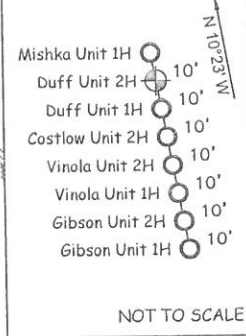
JOB # 12-107WA
DRAWING # DUFF2H
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Existing Fence
- Found monument, as noted
- Proposed Well Path
- As Drilled Well Path

DATE 05/07/15
OPERATOR'S WELL # DUFF UNIT #2H

PAD LAYOUT



NOT TO SCALE



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 - 06247

STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,004' ORIGINAL - 998' AS-DRILLED WATERSHED MCELROY CREEK
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.; DEPL; ALVADORE SMITH ET UX; MAURICE K. WILCOX ET AL; DEPL; 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) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,826' TVD 17,496' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313