

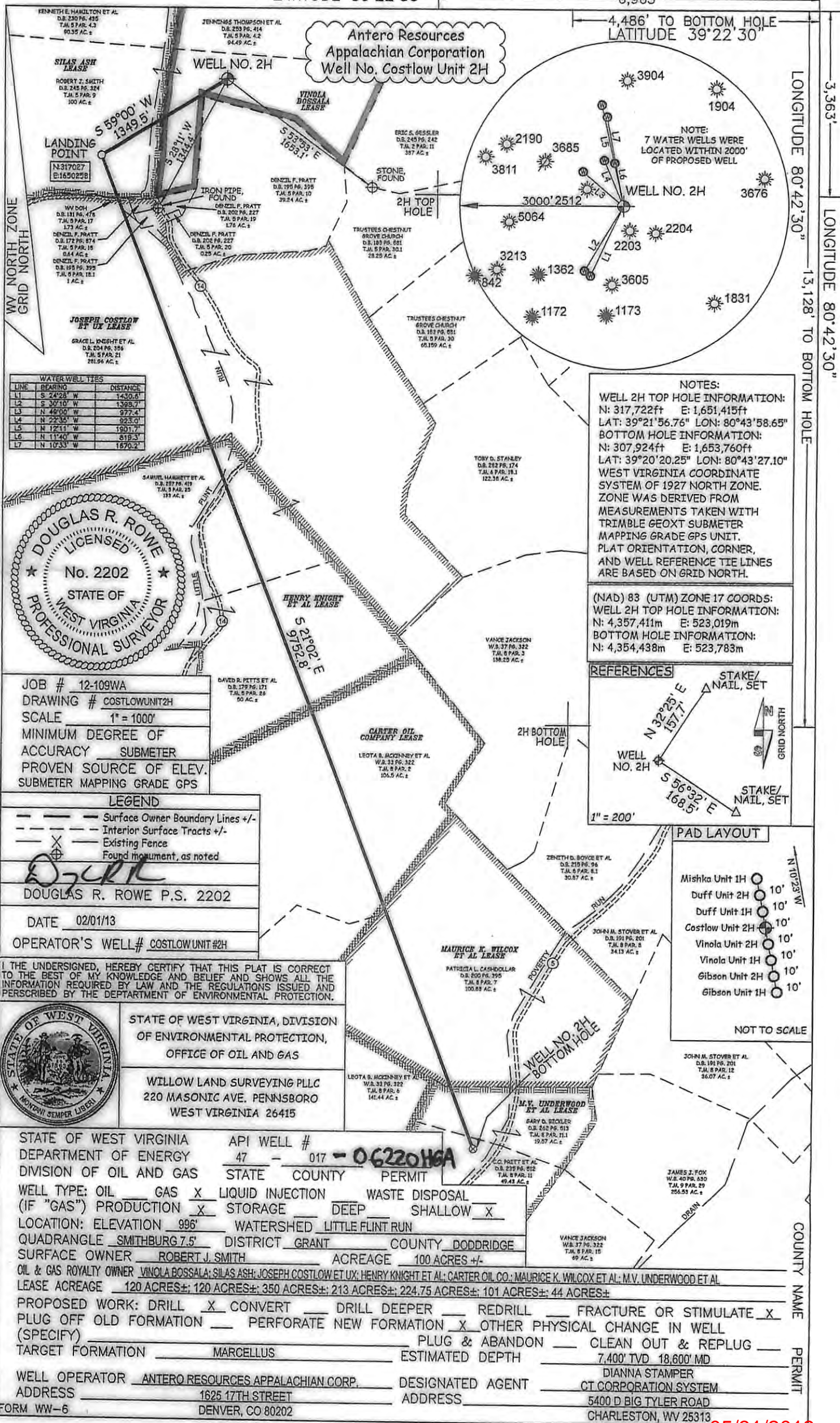
LATITUDE 39°22'30"

6,963'

4,486' TO BOTTOM HOLE
LATITUDE 39°22'30"

LONGITUDE 80°42'30"

LONGITUDE 80°42'30"

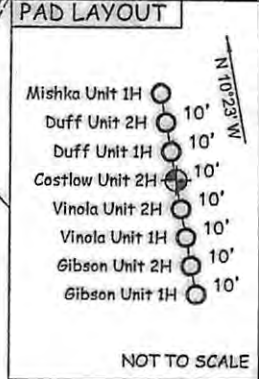
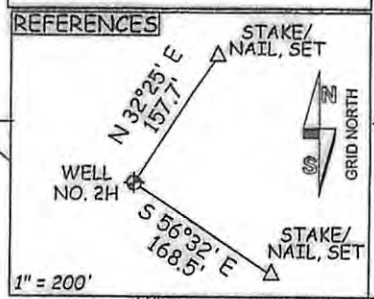


Antero Resources
Appalachian Corporation
Well No. Costflow Unit 2H

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

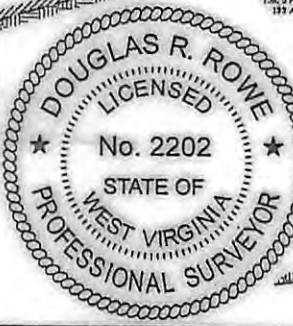
NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 317,722ft E: 1,651,415ft
LAT: 39°21'56.76" LON: 80°43'58.65"
BOTTOM HOLE INFORMATION:
N: 307,924ft E: 1,653,760ft
LAT: 39°20'20.25" LON: 80°43'27.10"
WEST VIRGINIA COORDINATE
SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM
MEASUREMENTS TAKEN WITH
TRIMBLE GEOXT 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: 4,357,411m E: 523,019m
BOTTOM HOLE INFORMATION:
N: 4,354,438m E: 523,783m



WATER WELL TIES

LINE	BEARING	DISTANCE
L1	S 24°28' W	1430.6
L2	S 30°10' W	1389.7
L3	N 48°00' W	977.4
L4	N 22°35' W	923.0
L5	N 12°11' W	1901.7
L6	N 11°40' W	819.3
L7	N 10°33' W	1670.2



JOB # 12-109WA
DRAWING # COSTLOWUNIT2H
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 02/01/13
OPERATOR'S WELL # COSTLOW 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 # 47 - 017 - 06220H6A

STATE COUNTY PERMIT

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; SILAS ASH; JOSEPH COSTLOW ET UX; HENRY KNIGHT ET AL; CARTER OIL CO.; MAURICE K. WILCOX ET AL; M.V. UNDERWOOD ET AL

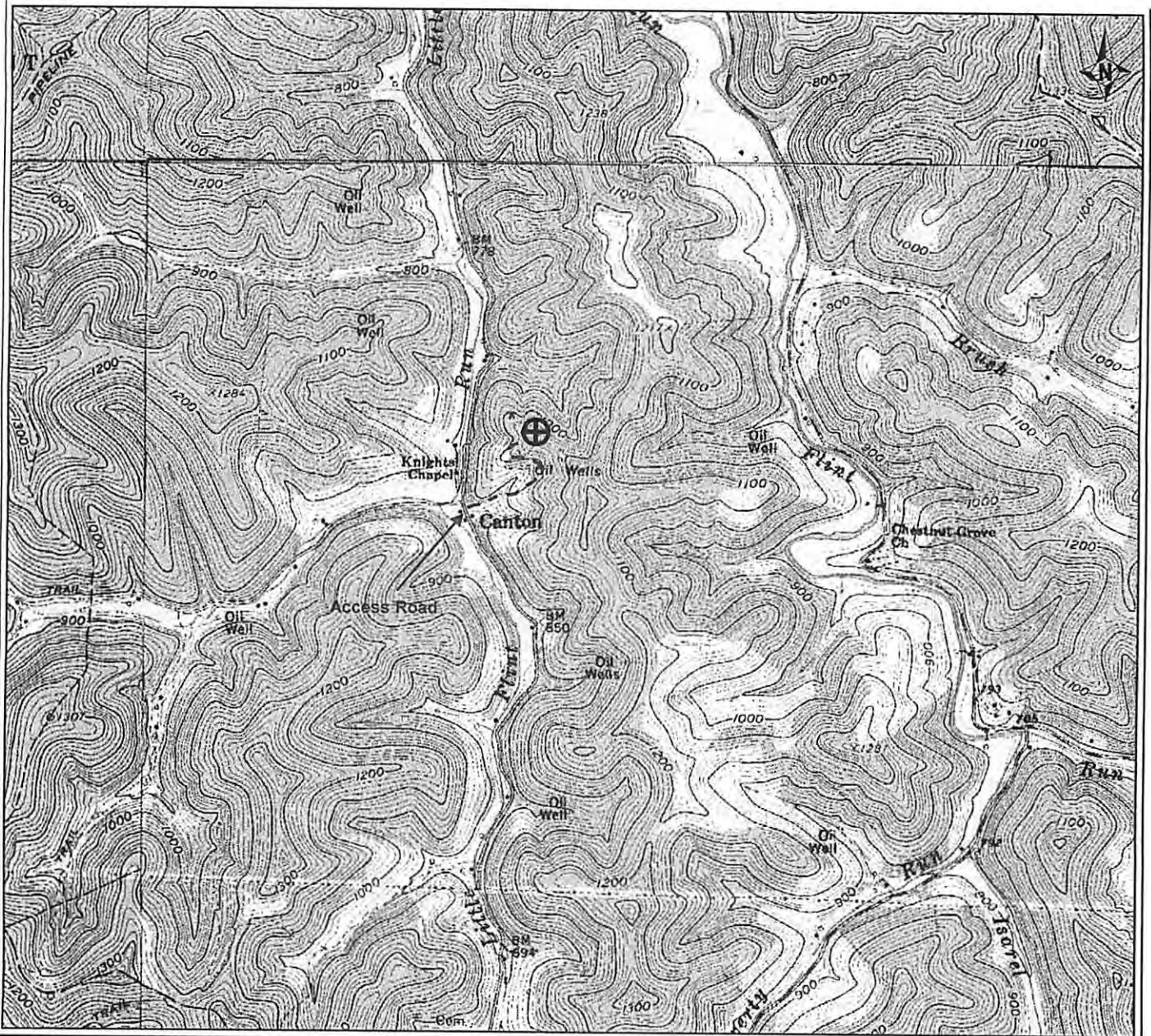
LEASE ACREAGE 120 ACRES±; 120 ACRES±; 350 ACRES±; 213 ACRES±; 224.75 ACRES±; 101 ACRES±; 44 ACRES±

PROPOSED WORK: DRILL CONVERT 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 7,400' TVD 18,600' 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

05/31/2013



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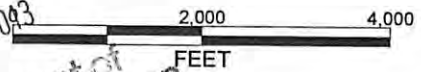
Antero Resources Corporation

Appalachian Basin

Costlow Unit 2H

Doddridge County

RECEIVED
Office of Oil and Gas
FEB 28 2013



WV Department of
Environmental Protection

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

February 6 2013