

LATITUDE 39°17'30"

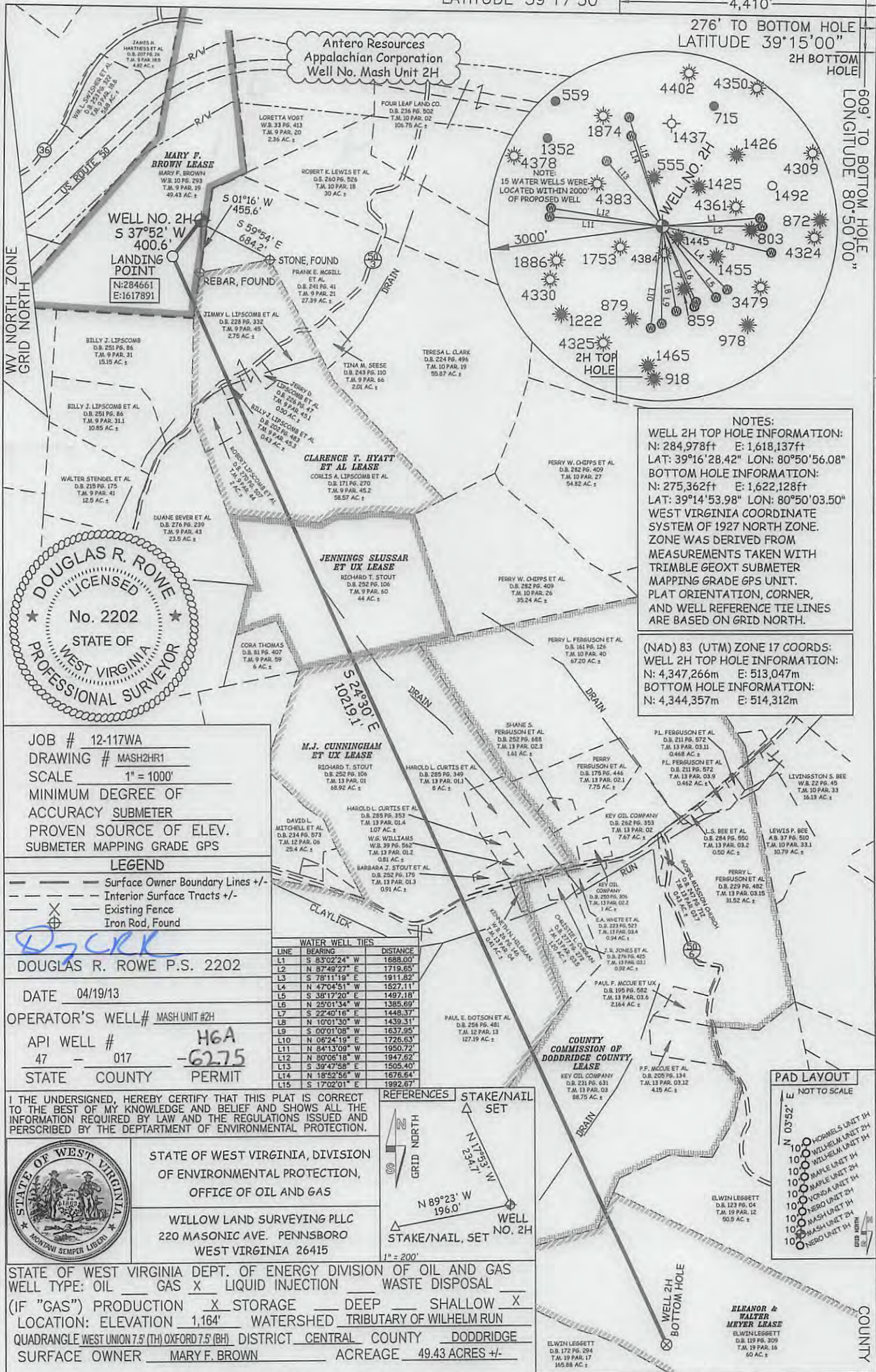
4,410'

276' TO BOTTOM HOLE  
LATITUDE 39°15'00"

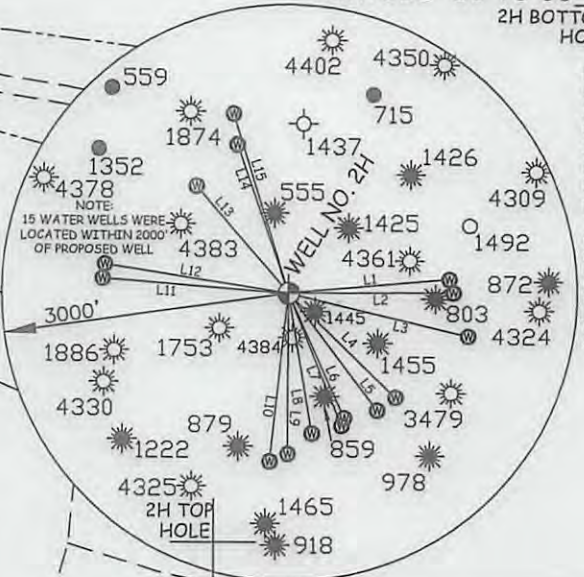
609' TO BOTTOM HOLE  
LONGITUDE 80°50'00"

6.231'

LONGITUDE 80°50'00"

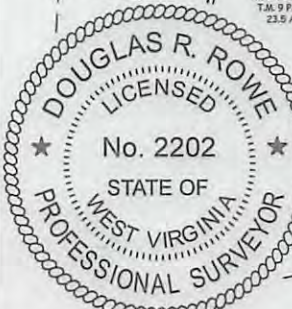


Antero Resources  
Appalachian Corporation  
Well No. Mash Unit 2H



NOTES:  
WELL 2H TOP HOLE INFORMATION:  
N: 284,978ft E: 1,618,137ft  
LAT: 39°16'28.42" LON: 80°50'56.08"  
BOTTOM HOLE INFORMATION:  
N: 275,362ft E: 1,622,128ft  
LAT: 39°14'53.98" LON: 80°50'03.50"  
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: 4,347,266m E: 513,047m  
BOTTOM HOLE INFORMATION:  
N: 4,344,357m E: 514,312m



JOB # 12-117WA  
DRAWING # MASH2HR1  
SCALE 1" = 1000'  
MINIMUM DEGREE OF  
ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV.  
SUBMETER MAPPING GRADE GPS

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- X- Existing Fence
- ⊕ Iron Rod, Found

DOUGLAS R. ROWE P.S. 2202

DATE 04/19/13

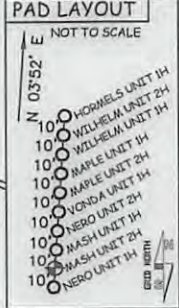
OPERATOR'S WELL# MASH UNIT #2H

API WELL # H6A  
47 - 017 - 6275

STATE COUNTY PERMIT

LINE	BEARING	DISTANCE
L1	S 83°02'24" W	1688.00'
L2	N 87°45'27" E	1719.85'
L3	S 78°11'19" E	1911.82'
L4	N 47°04'51" W	1527.11'
L5	S 38°17'20" E	1487.18'
L6	N 25°01'34" W	1385.69'
L7	S 22°40'16" E	1448.37'
L8	N 10°01'30" W	1439.31'
L9	S 00°01'08" W	1637.95'
L10	N 06°24'19" E	1726.63'
L11	N 84°13'09" W	1950.72'
L12	N 80°06'18" W	1947.62'
L13	S 39°47'58" E	1505.40'
L14	N 18°52'55" W	1676.64'
L15	S 17°02'01" E	1892.67'

REFERENCES  
STAKE/NAIL SET



STATE OF WEST VIRGINIA, DIVISION  
OF ENVIRONMENTAL PROTECTION,  
OFFICE OF OIL AND GAS

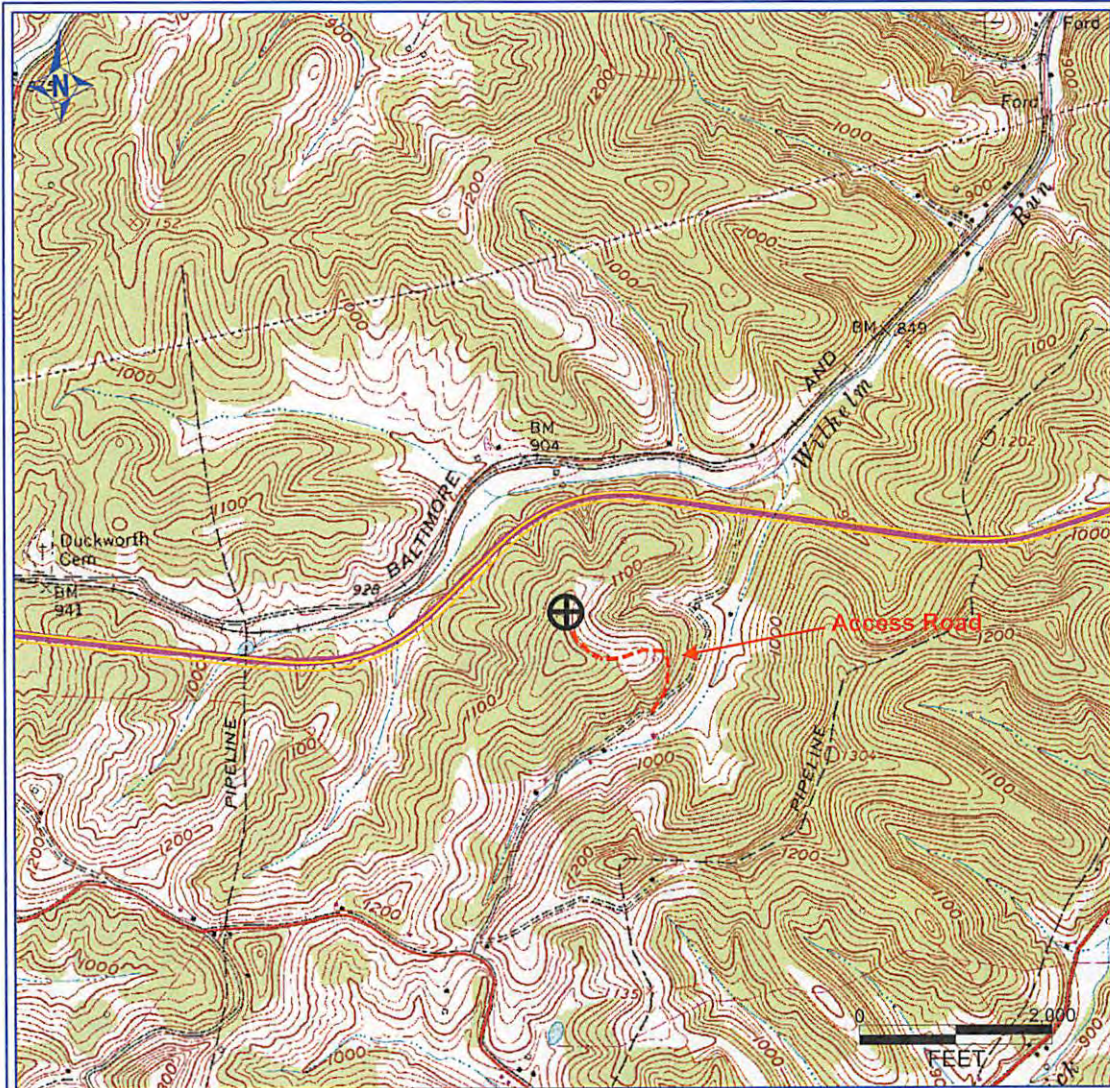
WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO  
WEST VIRGINIA 26415

STATE OF WEST VIRGINIA DEPT. OF ENERGY DIVISION OF OIL AND GAS  
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
LOCATION: ELEVATION 1,164' WATERSHED TRIBUTARY OF WILHELM RUN  
QUADRANGLE WEST UNION 7.5 (TH) OXFORD 7.5 (BH) DISTRICT CENTRAL COUNTY DODDRIDGE  
SURFACE OWNER MARY F. BROWN ACREAGE 49.43 ACRES +/-

OIL & GAS ROYALTY OWNER MARY F. BROWN; CLARENCE T. HYATT ET AL; LEASE ACREAGE 55.65 AC±; 65 AC±;  
JENNINGS SLUSSAR ET UX; M.J. CUNNINGHAM ET UX; COUNTY COMMISSION OF DODDRIDGE COUNTY; ELEANOR & WALTER MEYER 44 AC±; 228 AC±; 237 AC±; 90 AC±

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X  
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 17,750' MD  
WELL OPERATOR ANTERO RESOURCES APPALACHIAN CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313

06/28/2013



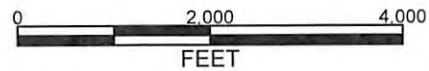
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### Antero Resources Corporation

APPALACHIAN BASIN

Mash Unit 2H

Doddridge County



REMARKS  
 QUADRANGLE: WEST UNION  
 WATERSHED: TRIB. OF WILHELM RUN  
 DISTRICT: CENTRAL

Date: 11/29/2012

RECEIVED  
 Office of Oil & Gas  
 MAY 02 2013  
 WV Department of  
 Environmental Protection