

LATITUDE 39°22'30"

9,996'

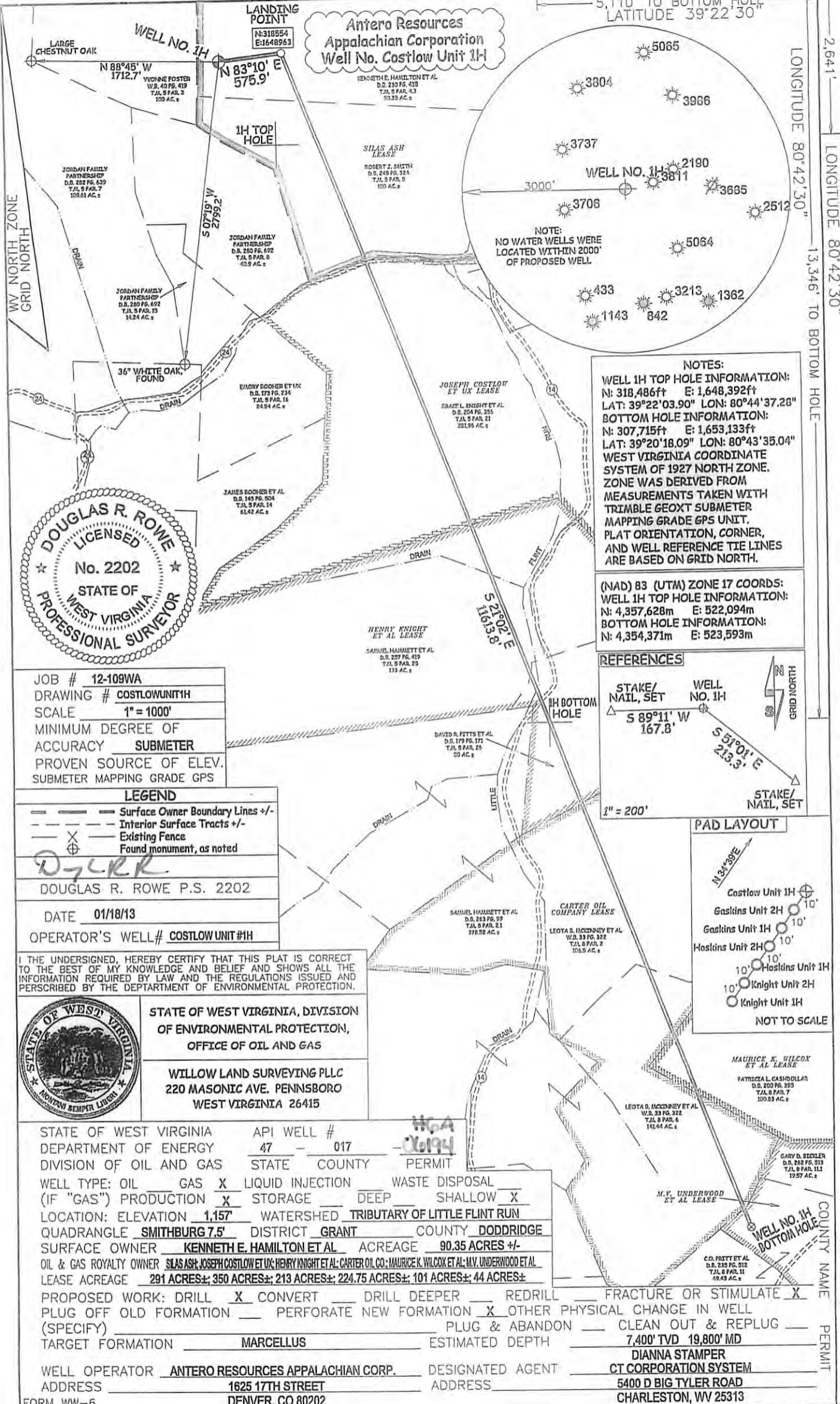
5,110' TO BOTTOM HOLE  
LATITUDE 39°22'30"

LONGITUDE 80°42'30"

LONGITUDE 80°42'30"

2,641'  
13,346' TO BOTTOM HOLE

### Antero Resources Appalachian Corporation Well No. Costlow Unit 1H



JOB # 12-109WA  
 DRAWING # COSTLOWUNIT1H  
 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  
 ⊕ Found monument, as noted

DOUGLAS R. ROWE P.S. 2202  
 DATE 01/18/13  
 OPERATOR'S WELL# COSTLOW 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.



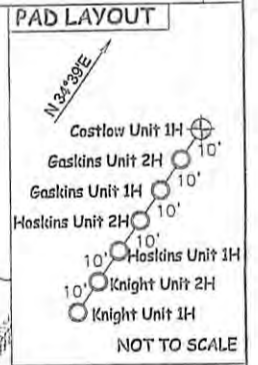
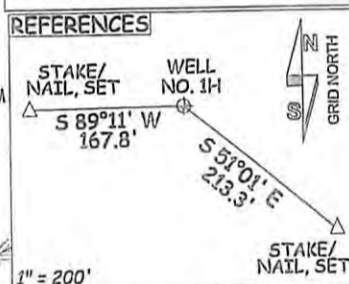
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
 API WELL # 47-017-06194  
 STATE COUNTY PERMIT  
 WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,157' WATERSHED TRIBUTARY OF LITTLE FLINT RUN  
 QUADRANGLE SMITHBURG 7.5' DISTRICT GRANT COUNTY DODDRIDGE  
 SURFACE OWNER KENNETH E. HAMILTON ET AL ACREAGE 90.35 ACRES +/-  
 OIL & GAS ROYALTY OWNER SILAS ASH; JOSEPH COSTLOW ET UX; HENRY KNIGHT ET AL; CARTER OIL CO.; MAURICE K. VILCOX ET AL; M.V. UNDERWOOD ET AL  
 LEASE ACREAGE 291 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 19,800' 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

**NOTES:**  
 WELL 1H TOP HOLE INFORMATION:  
 N: 318,486ft E: 1,648,392ft  
 LAT: 39°22'03.90" LON: 80°44'37.28"  
 BOTTOM HOLE INFORMATION:  
 N: 307,715ft E: 1,653,133ft  
 LAT: 39°20'18.09" LON: 80°43'35.04"  
 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: 4,357,628m E: 522,094m  
 BOTTOM HOLE INFORMATION:  
 N: 4,354,371m E: 523,593m



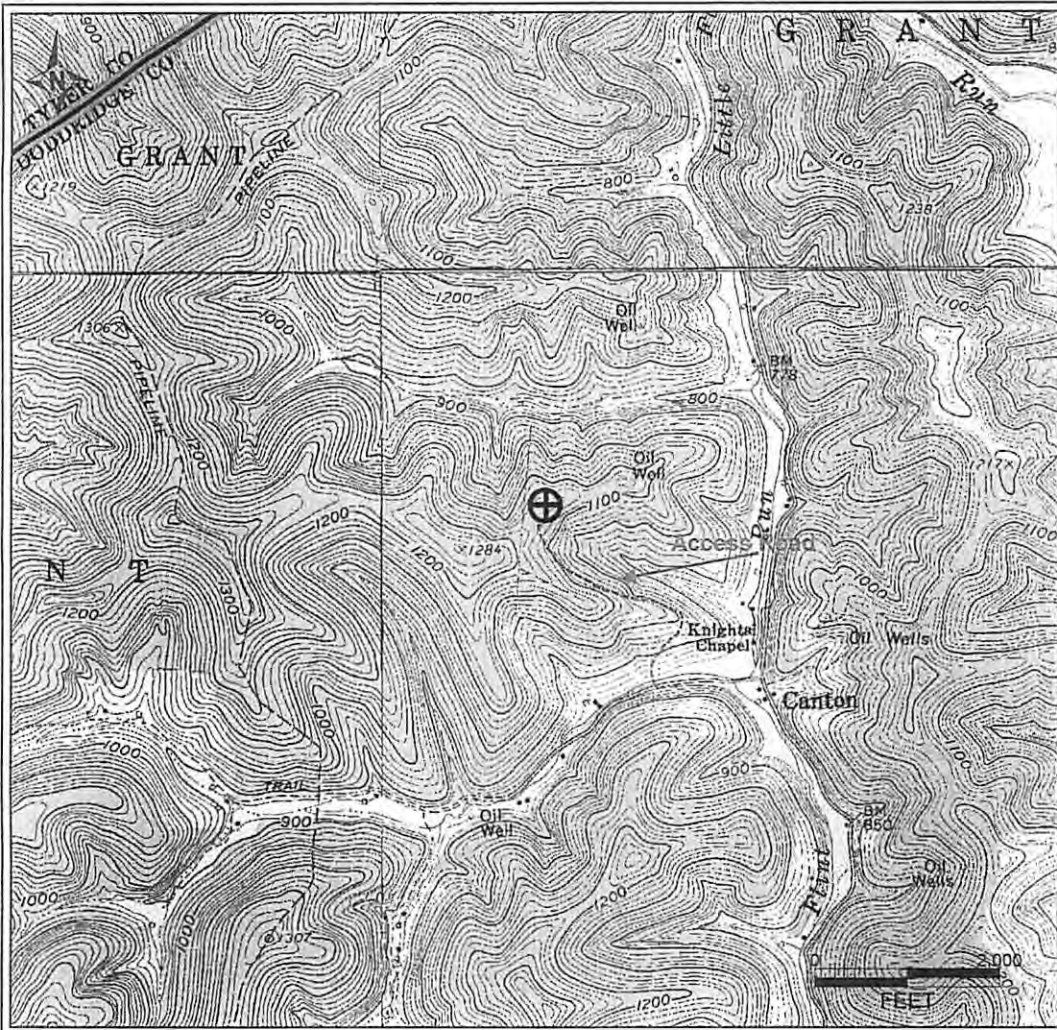
MAURICE K. VILCOX ET AL LEASE  
 PATRICIA L. CASHROLLAN D.D. 200 PG. 353 T.J.L. 8 PAR. 7 100.83 AC. ±

LEOTA D. MCCORMY ET AL W.D. 33 PG. 322 T.J.L. 8 PAR. 6 142.44 AC. ±

M.V. UNDERWOOD ET AL LEASE  
 C.O. PRETT ET AL D.D. 239 PG. 512 T.J.L. 8 PAR. 11 49.43 AC. ±

GARY B. BUEHLER D.D. 242 PG. 313 T.J.L. 8 PAR. 111 19.57 AC. ±

COUNTY NAME PERMIT



PETRA 11/29/2012 4:01:32 PM

Antero Resources Corporation

APPALACHIAN BASIN

Costlow Unit 1H  
Doddridge County



REMARKS  
 QUADRANGLE: SMITHBURG  
 WATERSHED:  
 DISTRICT:

Date: 12/05/2012

17-06194 H6A COSTILOW UNIT 1H  
ANTERO RESOURCES

WELL PAD NAME: HAMILTON