

**Antero Resources**  
**Well No. Williams Unit 1H**  
**Antero Resources**  
**Appalachian Corporation**

8,728' to Top Hole LATITUDE 39 - 20 - 00

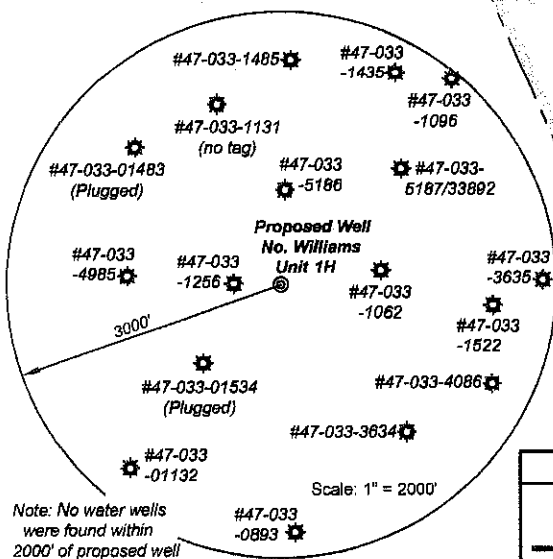
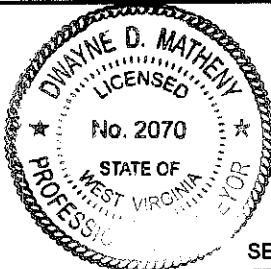


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny, P.S. 2070

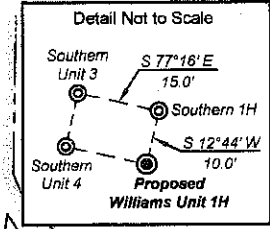
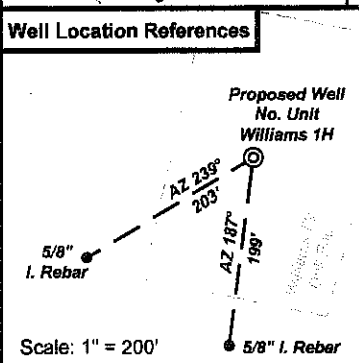
Tax Map 285 Parcels		
Par	Owner	Bk/Pg
1 68	Burley K. Burley K. Jr. & Brenda L. Myers	1382/800

LINE	BEARING	DISTANCE
L1	S 74°27'E	166.3'
L2	S 82°25'W	1090.4'



**Notes:**  
**West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.**  
 Well Williams Unit 1H Top Hole coordinates are  
 N: 295,548.63 Latitude: 39°18'28.48"  
 E: 1,743,771.04 Longitude: 80°24'19.90"  
 Bottom Hole coordinates are  
 N: 286,333.63 Latitude: 39°16'57.86"  
 E: 1,748,454.10 Longitude: 80°23'19.16"  
**UTM Zone 17, NAD 1983**  
 Top Hole Coordinates: Bottom Hole Coordinates:  
 N: 4,351,125.018m N: 4,348,341.356m  
 E: 551,268.766m E: 552,742.231m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.

- Legend**
- ⊕ Proposed gas well
  - Found monument, as noted
  - Surface boundary (approx.)
  - - - Interior surface tracts (approx.)
  - Existing Road
  - - - Existing Creek or Drain



**LEASE TABLE**

Oil & Gas Royalty Owner	Acres
Connie Moore & Diane Elliot	2.37
Walter Earl Jr. & Orpha R Swiger	<1.0
John R. Clark	1.93
David D. & Heather L. Bartlett, et al	2.13
Hellin Davis, et al	0.02
Michael F. Pleasants Sr., et al	2.37

FILE NO: **128-36-C-09**  
 DRAWING NO: **128-09\_Williams 1H**  
 SCALE: **1" = 1200'**  
 MINIMUM DEGREE OF ACCURACY: **Submeter**  
 PROVEN SOURCE OF ELEVATION: **CORS Glenville, WV**

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL AND GAS**

DATE: **December 16 20 11**  
 API WELL NO: **Williams Unit 1H**  
**47 - 033 - 05549D**  
 STATE COUNTY PERMIT  
 OPERATOR'S WELL NO. \_\_\_\_\_

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: **1191'** WATERSHED **Johnson Fork**  
 QUADRANGLE: **Wolf Summit** DISTRICT: **Coal** COUNTY: **Harrison**  
 SURFACE OWNER: **Edgar H. Williams Estate** Connie Moore & Diane Elliot; John R. Clark; p/o Paul S. Hornor; David D. & Heather L. Bartlett, et al; Michael F. Pleasants Sr., et al ACREAGE: **168.02** 2.13; 2.37; 2.37; 0.02; 1.93  
 OIL AND GAS ROYALTY OWNER: **John T. Williams, et ux; Paul S. Hornor, et al; Hellin Davis, et al** LEASE NO: **p/o 052709; 072373; 3326** ACREAGE: **300; 34.4; <1.0** 288.58; 175;  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: **Marcellus Shale** ESTIMATED DEPTH: **7,100' TVD** 18,000' MD

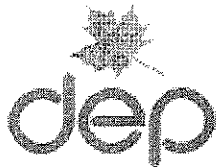
WELL OPERATOR: **Antero Resources Appalachian Corporation** DESIGNATED AGENT: **Diana Stamper - CT Corporation System**  
 ADDRESS: **1625 17th Street** ADDRESS: **5400 D Big Tyler Road**  
**Denver, CO 80202** **Charleston, WV 25313**

04/20/2012



RECEIVED  
Office of Oil & Gas  
JAN 09 2012  
WV DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

<b>Antero Resources Corporation</b>
APPALACHIAN BASIN
<b>Williams Unit 1H</b>
Harrison County
0 2,000 4,000 FEET
REMARKS QUADRANGLE: WOLF SUMMIT WATERSHED: JOHNSON FORK DISTRICT: COAL
January 9, 2009



west virginia department of environmental protection

Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

April 10, 2012

**WELL WORK PERMIT**

**Drilling Deeper**

This permit, API Well Number: 47-3305549, issued to ANTERO RESOURCES APPALACHIAN CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: WILLIAMS UNIT 1H  
Farm Name: WILLIAMS, EDGAR - ESTATE  
**API Well Number: 47-3305549**  
**Permit Type: Drilling Deeper**  
Date Issued: 04/10/2012

**Promoting a healthy environment.**

04/20/2012