

LATITUDE 39°20'00"

6,689'

9,381' TO BOTTOM HOLE

LATITUDE 39°22'30"

LONGITUDE 80°40'00"

3,317'

LONGITUDE 80°40'00"

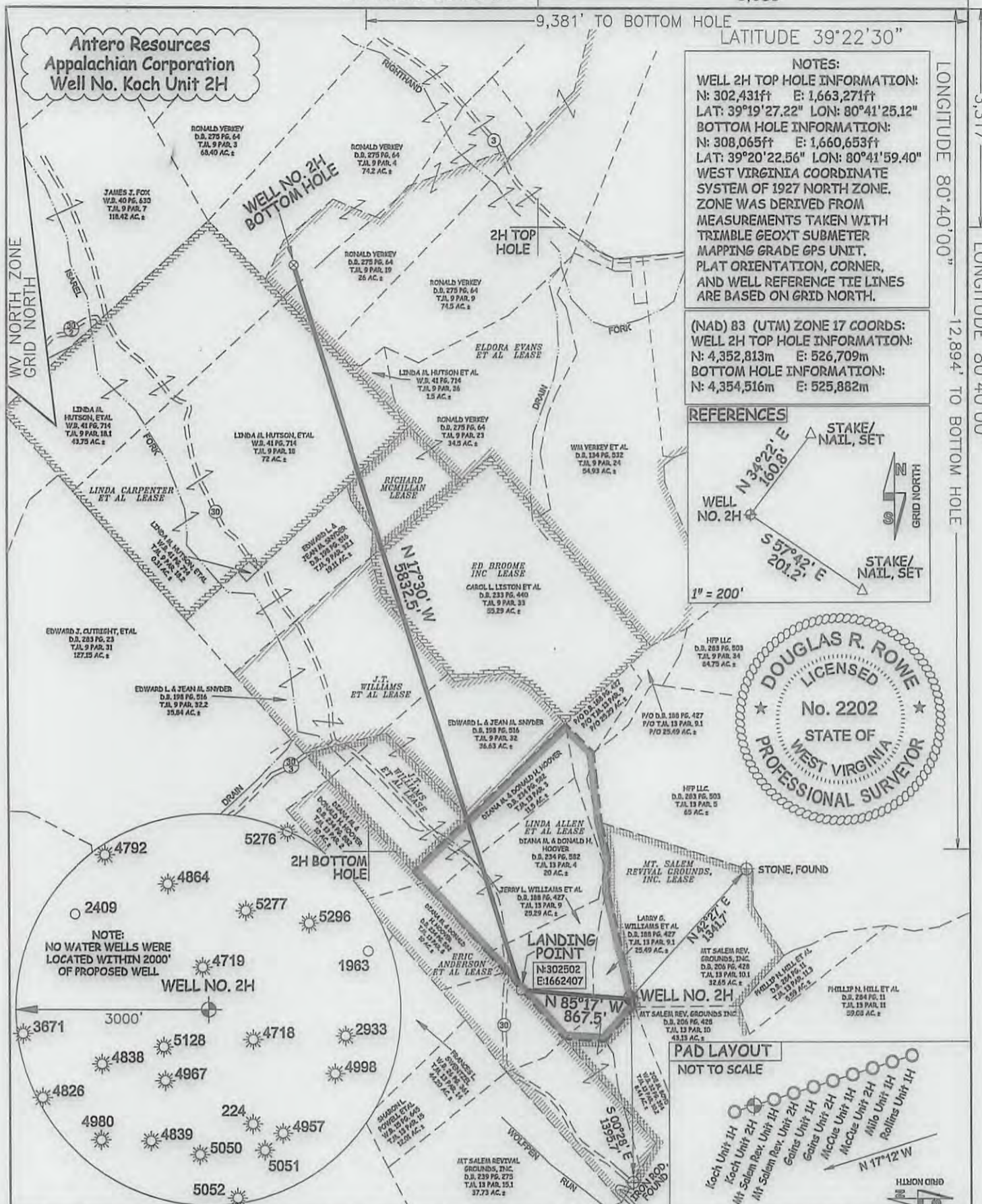
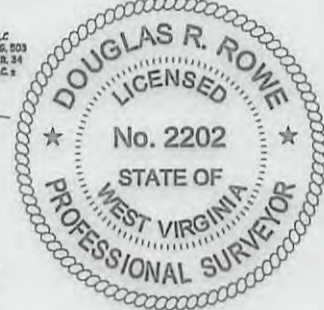
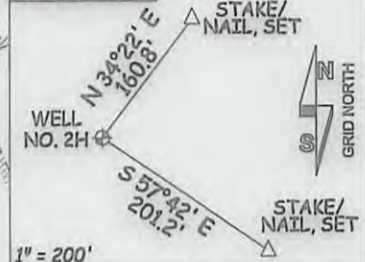
12,894' TO BOTTOM HOLE

# Antero Resources Appalachian Corporation Well No. Koch Unit 2H

**NOTES:**  
 WELL 2H TOP HOLE INFORMATION:  
 N: 302,431ft E: 1,663,271ft  
 LAT: 39°19'27.22" LON: 80°41'25.12"  
 BOTTOM HOLE INFORMATION:  
 N: 308,065ft E: 1,660,653ft  
 LAT: 39°20'22.56" LON: 80°41'59.40"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE, ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATON, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 4,352,813m E: 526,709m  
 BOTTOM HOLE INFORMATION:  
 N: 4,354,516m E: 525,882m

### REFERENCES



JOB # **12-132WA**  
 DRAWING # **KOCH2H**  
 SCALE **1" = 1000'**  
 MINIMUM DEGREE OF ACCURACY **SUBMETER**  
 PROVEN SOURCE OF ELEV. **SUBMETER MAPPING GRADE GPS**

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

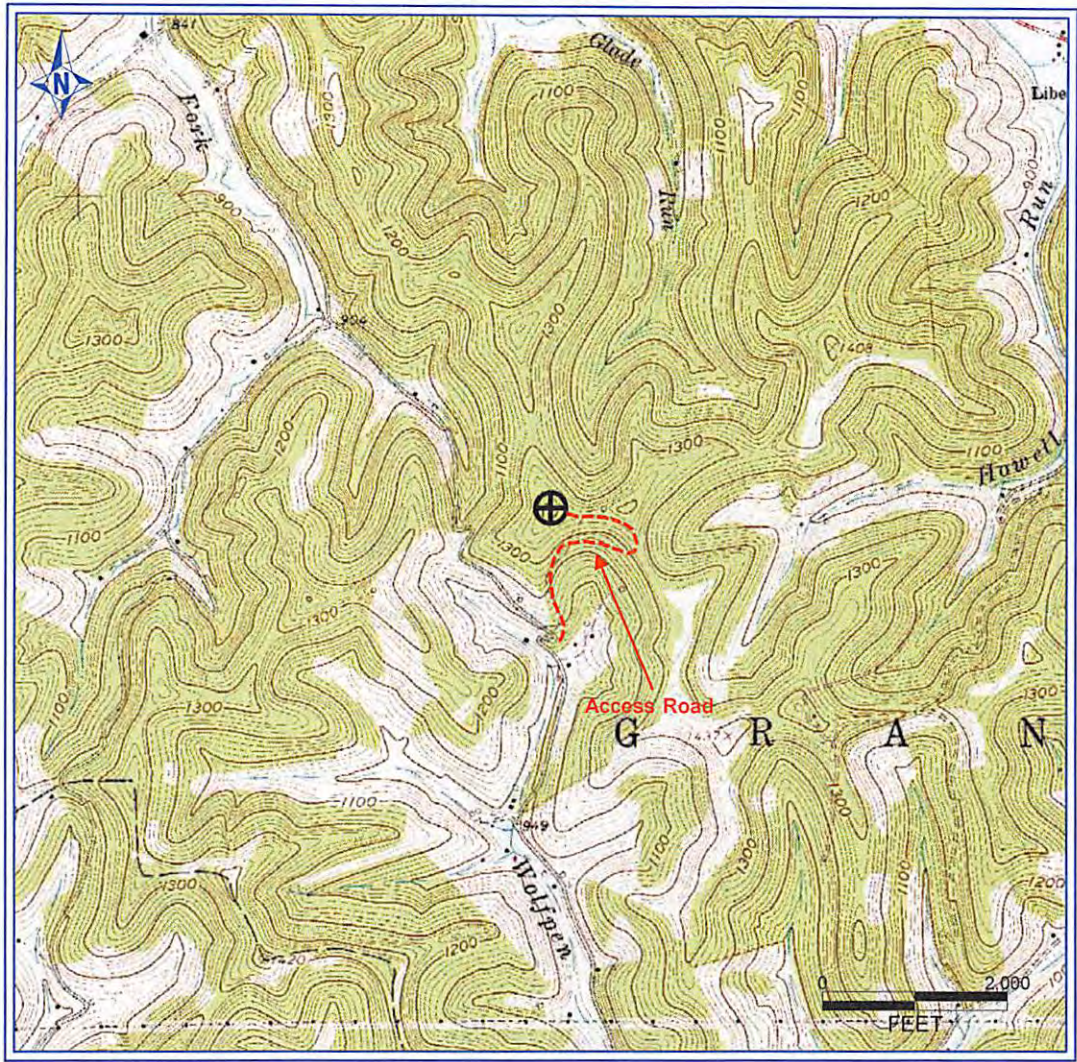
**LEGEND**  
 — Surface Owner Boundary Lines +/-  
 - - - Interior Surface Tracts +/-  
 ⊕ Existing Fence  
 ○ Found monument, as noted

*D. Rowe*  
 DOUGLAS R. ROWE P.S. 2202

DATE **02/20/13**  
 OPERATOR'S WELL# **KOCH UNIT #2H**  
 API WELL # **H6A 47 - 017 6267**  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT 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 **1,378'** WATERSHED **WOLFFPEN RUN**  
 QUADRANGLE **SMITHBURG 7.5'** DISTRICT **GRANT** COUNTY **DODDRIDGE**  
 SURFACE OWNER **LARRY WILLIAMS ET AL** ACREAGE **25.49 ACRES +/-**  
 OIL & GAS ROYALTY OWNER **LINDA ALLEN ET AL; ERIC ANDERSON ET AL; J.T. WILLIAMS ET AL; J.T. WILLIAMS ET AL; ED BROOME INC; RICHARD MCMILLAN; LINDA CARPENTER ET AL; ELDORA EVANS ET AL** LEASE ACREAGE **35.11 ACRES±; 40 ACRES±; 16 ACRES±; 59 ACRES ±; 55.29 ACRES±; 10.87 ACRES±; 116 ACRES±; 214 ACRES±**  
 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 **7,400' TVD 14,700' MD**  
 WELL OPERATOR **ANTERO RESOURCES APPALACHIAN CORP.** DESIGNATED AGENT **DIANNA STAMPER CT CORPORATION SYSTEM**  
 ADDRESS **1625 17TH STREET DENVER, CO 80202** ADDRESS **5400 D BIG TYLER ROAD CHARLESTON, WV 25313**

06/28/2013



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RECEIVED  
Office of Oil and Gas

APR 12 2013

WV Department of  
Environmental Protection

Antero Resources Corporation
APPALACHIAN BASIN
Koch Unit 2H Doddridge County
REMARKS QUADRANGLE: SMITHBURG WATERSHED: DISTRICT: GRANT
Date: 12/04/12