

LATITUDE 39°15'00" 1,230'

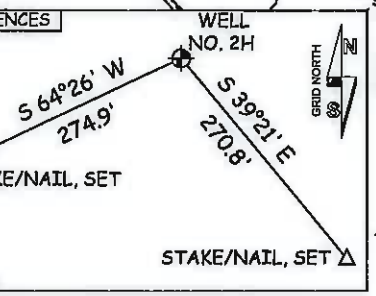
9,720' TO BOTTOM HOLE

LATITUDE 39°12'30"

LONGITUDE 80°35'00"

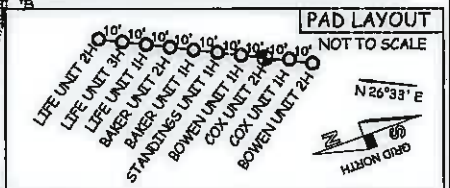
14,852'

LONGITUDE 80°37'30"



**NOTES:**  
 WELL 2H TOP HOLE INFORMATION:  
 N: 260,325ft E: 1,679,992ft  
 LAT: 39°12'33.20" LON: 80°37'45.62"  
 BOTTOM HOLE INFORMATION:  
 N: 253,954ft E: 1,683,213ft  
 LAT: 39°11'30.63" LON: 80°37'03.70"  
 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: 4,340,070m E: 532,017m  
 BOTTOM HOLE INFORMATION:  
 N: 4,338,145m E: 533,030m



JOB # 12-065WA  
 DRAWING # COX2HR2  
 SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1,410' WATERSHED STANDINGSTONE RUN OF MEATHOUSE FORK

SURFACE OWNER CLARENCE TRENT, JR. ET AL

OIL & GAS ROYALTY OWNER ELIZABETH JONES & RICHARD JONES; BERNARD E. BOLTE ET AL

CLARENCE MUTSCHELKNAUS ET AL; ROBERT CUMPTON ET AL; MARY M. WELCH; E. JENNINGS VANSCOY ET AL

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL

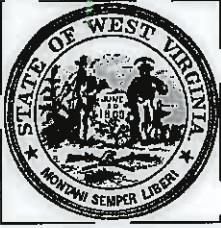
(SPECIFY) Permit Modification - Extended Well PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,600' TVD 12,800' MD

WELL OPERATOR ANTERO RESOURCES APPALACHIAN CORP. DESIGNATED AGENT CT CORPORATION SYSTEM

ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD

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 +/-  
 X Existing Fence  
 ⊕ Found monument, as noted

THOMAS SUMMERS P.S. 2109

DATE 02/13/13

OPERATOR'S WELL# COX UNIT #2H

API WELL # 47 - 017 - Revised

STATE COUNTY PERMIT DeloD H6A

QUADRANGLE NEW MILTON 7.5 (TOP HOLE); BIG ISAAC 7.5 (BOTTOM HOLE) DISTRICT GREENBRIER COUNTY DODDRIDGE

ACREAGE 155 ACRES +/-

LEASE ACREAGE 155 ACRES +/-; 134 ACRES +/-

135.421 ACRES +/-; 75 ACRES +/-; 70 ACRES +/-; 65 ACRES +/-

DIANNA STAMPER

CHARLESTON, WV 25313



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west virginia department of environmental protection

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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](http://www.dep.wv.gov)

**PERMIT MODIFICATION APPROVAL**

June 19, 2013

ANTERO RESOURCES APPALACHIAN CORPORATION  
1625 17TH STREET, SUITE 300  
DENVER, CO 80202

Re: Permit Modification Approval for API Number 1706160 , Well #: COX UNIT 2H  
**MODIFIED HORIZONTAL LATERAL.**

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Gene Smith', is written over a faint, larger version of the signature.

Gene Smith  
Regulatory/Compliance Manager  
Office of Oil and Gas

**Promoting a healthy environment.**

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06/21/2013