

LATITUDE 39°15'00"

5,913'

10,167' TO BOTTOM HOLE

LATITUDE 39°15'00"

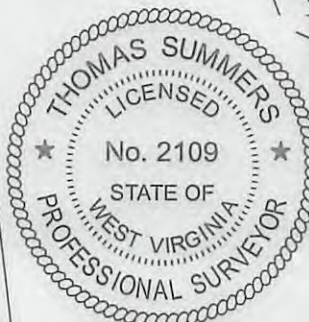
4,432' TO BOTTOM HOLE

1,436'

LONGITUDE 80°35'00"

COUNTY NAME PERMIT

Antero Resources Corporation  
Well No. Lettie Unit 1H

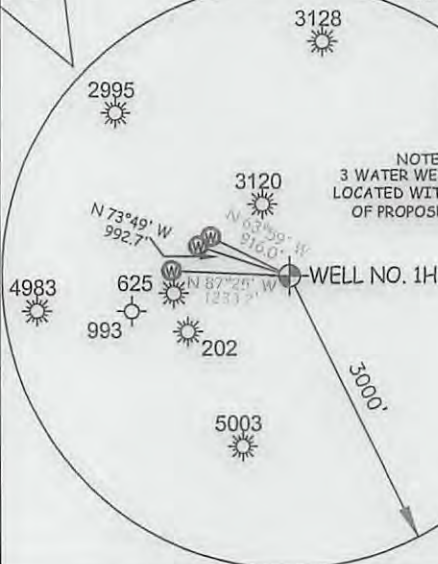


NOTES:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 260,724ft E: 1,687,121ft  
 LAT: 39°12'38.03" LON: 80°36'15.12"  
 BOTTOM HOLE INFORMATION:  
 N: 270,708ft E: 1,682,987ft  
 LAT: 39°14'16.20" LON: 80°37'09.22"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN 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: 4,340,228m E: 534,187m  
 BOTTOM HOLE INFORMATION:  
 N: 4,343,248m E: 532,876m

NOTE:  
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHEPHERD DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

PAD LAYOUT NOT TO SCALE



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

THOMAS SUMMERS P.S. 2109

DATE 11/05/13

OPERATOR'S WELL# LETTIE UNIT #1H

API WELL # 47 - 017 - 06422 HEA

STATE COUNTY PERMIT

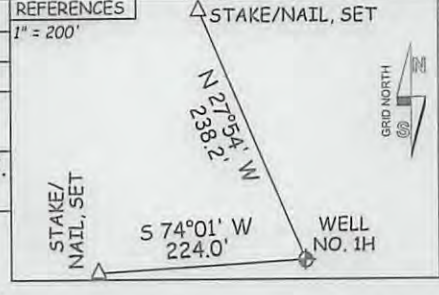
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

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

JOB # 13-087WA  
 DRAWING # LETTIE1H  
 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 1,270' WATERSHED TRIBUTARY OF JOHNSON FORK  
 QUADRANGLE BIG ISSAC 7.5' DISTRICT GREENBRIER COUNTY DODDRIDGE

SURFACE OWNER JUNIOR PERINE ACREAGE 89.43 ACRES +/-  
 OIL & GAS ROYALTY OWNER REXALL BARNETT ET AL; E. MAY SUMMERS; E. MAY SUMMERS; MARY WELCH; LEASE ACREAGE 81.4 AC±; 38 AC±; 68 AC±; 15.6 AC±;  
 DAVID M. BELL ET UX; MARJORIE A. CRABBE; ANNA S. LAYMAN; DENVER JACK CORK; J.J. ADAMS; DENNIS FOREMAN; HARRY H. MEEK JR. ET AL; HARRY H. MEEK JR. ET AL 47.2 AC±; 6.7 AC±; 18,275 AC±; 60.5 AC±; 136.3 AC±; 46 AC±; 96 AC±; 80 AC±

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 18,500' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

01/03/2014



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*DCW  
11-19-2013*

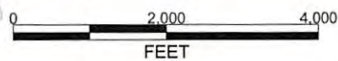
**Received**

NOV 22 2013

Antero Resources Corporation

Appalachian Basin

Lettie Unit 1H  
Doddridge County



Office of Oil and Gas  
 WV Dept. of Environmental Protection

REMARKS  
 QUADRANGLE: BIG ISAAC  
 WATERSHED: U. MIDDLE ISLAND CREEK  
 DISTRICT: GREENBRIER

February 11, 2013