

LATITUDE 39°20'00"

8,689'

1,732' TO BOTTOM HOLE

LATITUDE 39°22'30"

LONGITUDE 80°57'30"

6,345'

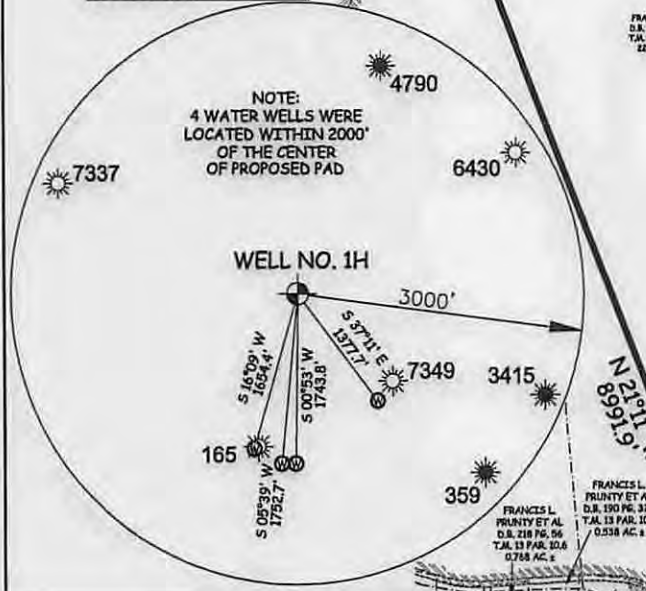
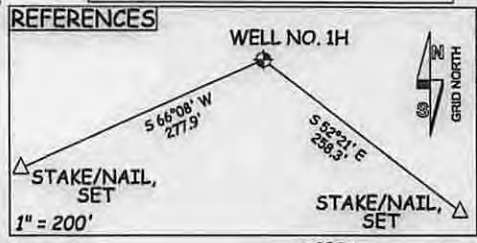
LONGITUDE 80°55'00"

COUNTY NAME RITCHIE PERMIT

### Antero Resources Corporation Well No. Manos Unit 1H

**NOTES:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 300,471ft E: 1,590,507ft  
 LAT: 39°18'57.29" LON: 80°56'50.55"  
**BOTTOM HOLE INFORMATION:**  
 N: 308,731ft E: 1,585,809ft  
 LAT: 39°20'18.17" LON: 80°57'52.04"  
 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: 4,351,845m E: 504,551m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,354,338m E: 503,078m



**LEGEND**

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

THOMAS SUMMERS P.S. 2109  
 DATE 09/23/14  
 OPERATOR'S WELL # MANOS UNIT #1H

API WELL # 47 - 085 - 10180  
 STATE COUNTY PERMIT

JOB # 14-009WA  
 DRAWING # MANOSH  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

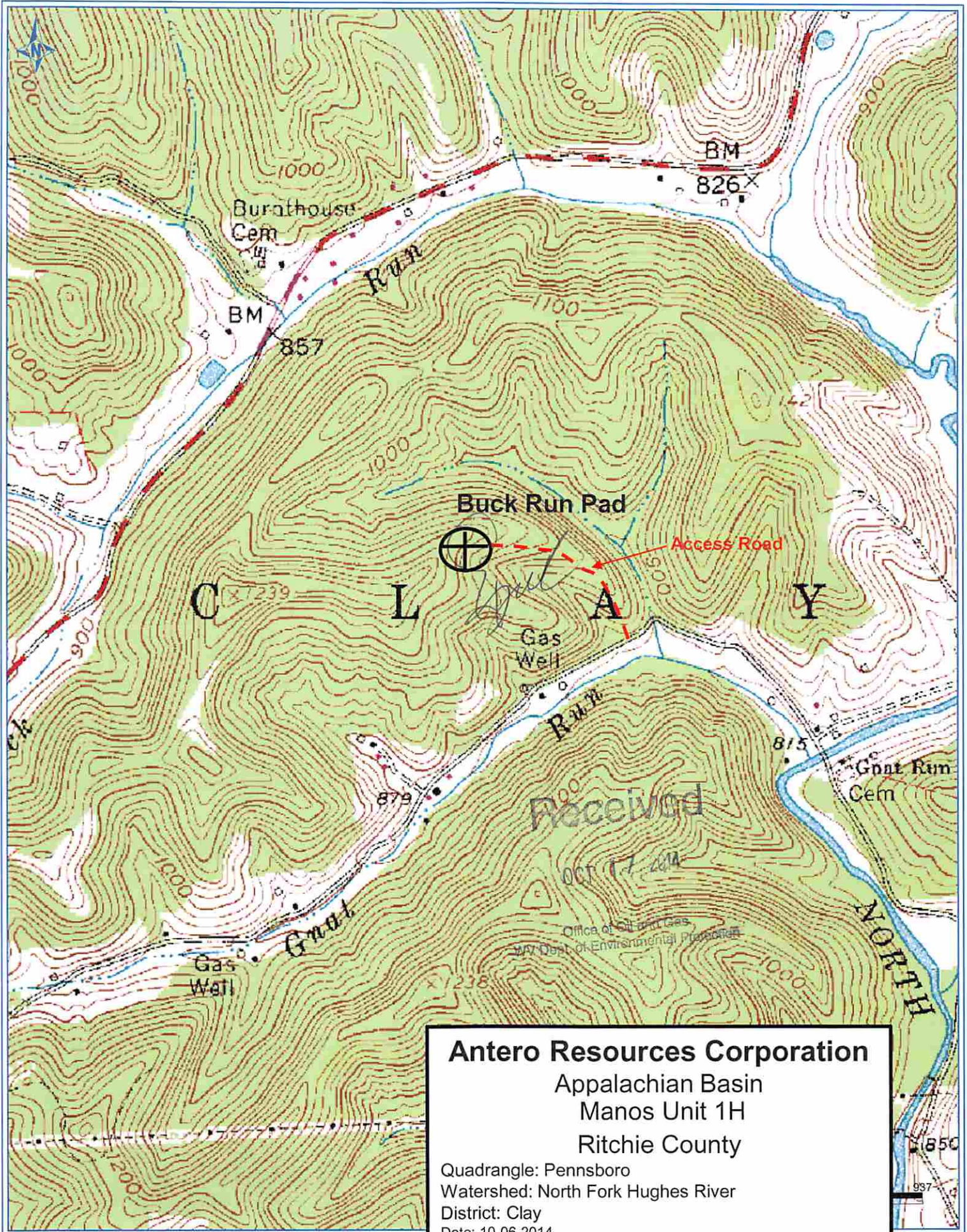
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 P.O. BOX 17 PENNSBORO WEST VIRGINIA 26415

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 1,127' WATERSHED POPLARLICK RUN

QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE  
 SURFACE OWNER STEPHEN C. JACKSON ET AL ACREAGE 40.835 ACRES +/-  
 OIL & GAS ROYALTY OWNER HARVEY WEIGLE HEIRS; STEVE JACKSON; LEASE ACREAGE 51 ACRES±; 117 ACRES±; MARY MAXINE WELCH; CLIFF WILSON ET UX; JAMES W. UTT 163 ACRES±; 413 ACRES±; 82 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 ESTIMATED DEPTH 6,500' TVD 16,000' MD  
 TARGET FORMATION MARCELLUS  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD CT CORPORATION SYSTEM  
 DENVER, CO 80202 CHARLESTON, WV 25313



**Antero Resources Corporation**  
 Appalachian Basin  
 Manos Unit 1H  
 Ritchie County

Quadrangle: Pennsboro  
 Watershed: North Fork Hughes River  
 District: Clay  
 Date: 10-06-2014