

LATITUDE 39°20'00"

11,265'

LATITUDE 39°17'30"

LONGITUDE 80°57'30"

7,382'

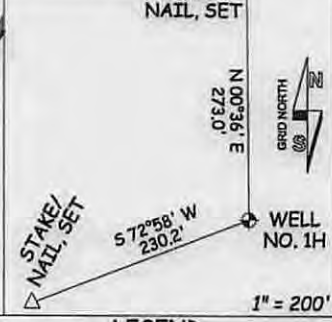
LONGITUDE 80°57'30"

Antero Resources Corporation  
Well No. Musgrave Unit 1H

NOTES:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 299,669ft E: 1,576,127ft  
 LAT: 39°18'47.03" LON: 80°59'53.33"  
 BOTTOM HOLE INFORMATION:  
 N: 289,439ft E: 1,578,243ft  
 LAT: 39°17'06.28" LON: 80°59'24.25"  
 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: 4,351,527m E: 500,174m  
 BOTTOM HOLE INFORMATION:  
 N: 4,348,422m E: 500,871m

REFERENCES



LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Existing Fence
- Rebar, Found

DOUGLAS R. ROWE P.S. 2202

DATE 08/27/14

OPERATOR'S WELL# MUSGRAVE UNIT #1H

API WELL # 47 - 085 - 10163  
 STATE COUNTY PERMIT

JOB # 13-007WA

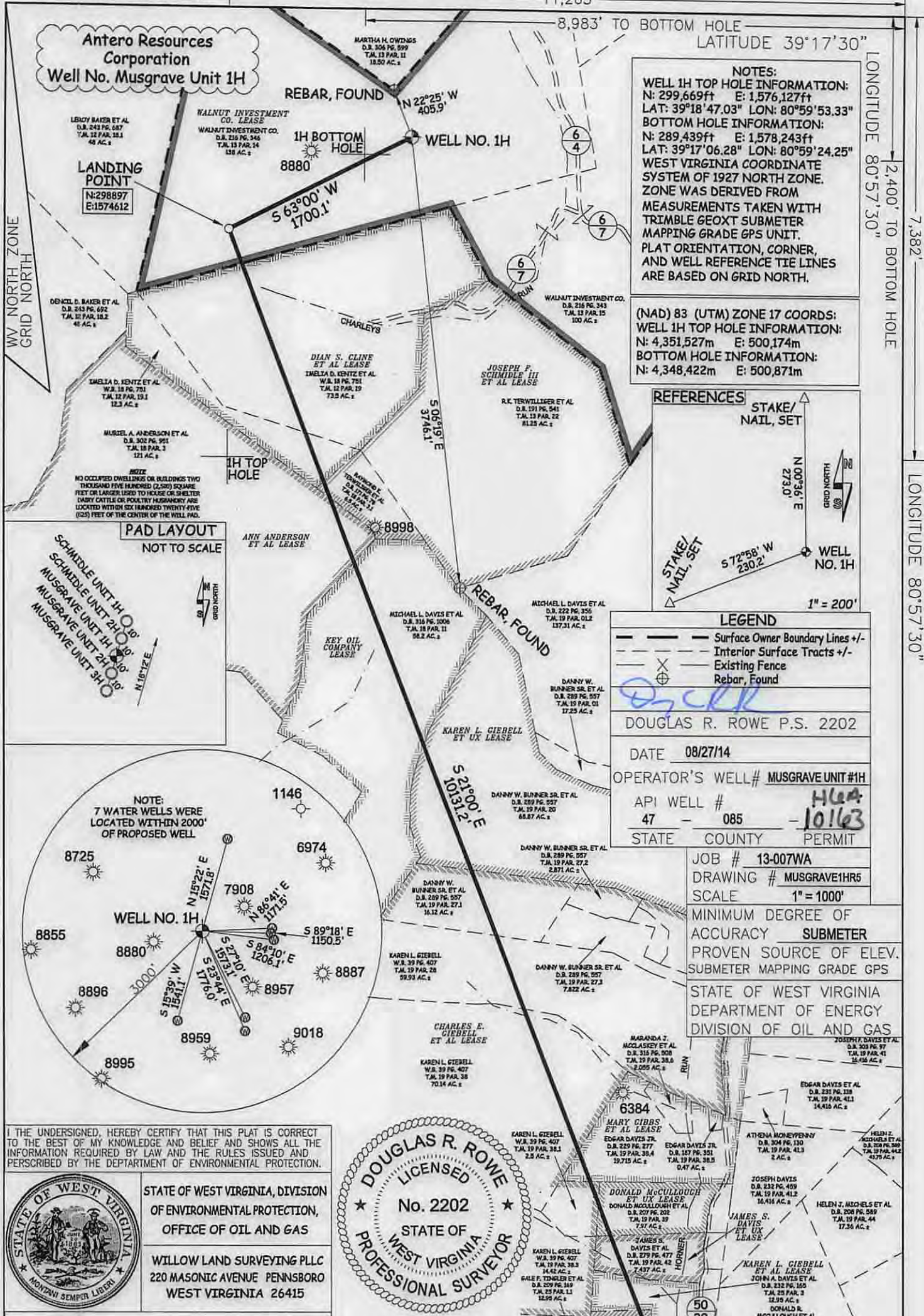
DRAWING # MUSGRAVE1HR5

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



PAD LAYOUT NOT TO SCALE

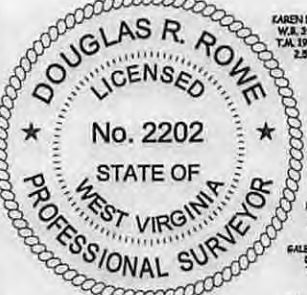
NOTE:  
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

NOTE:  
 7 WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL

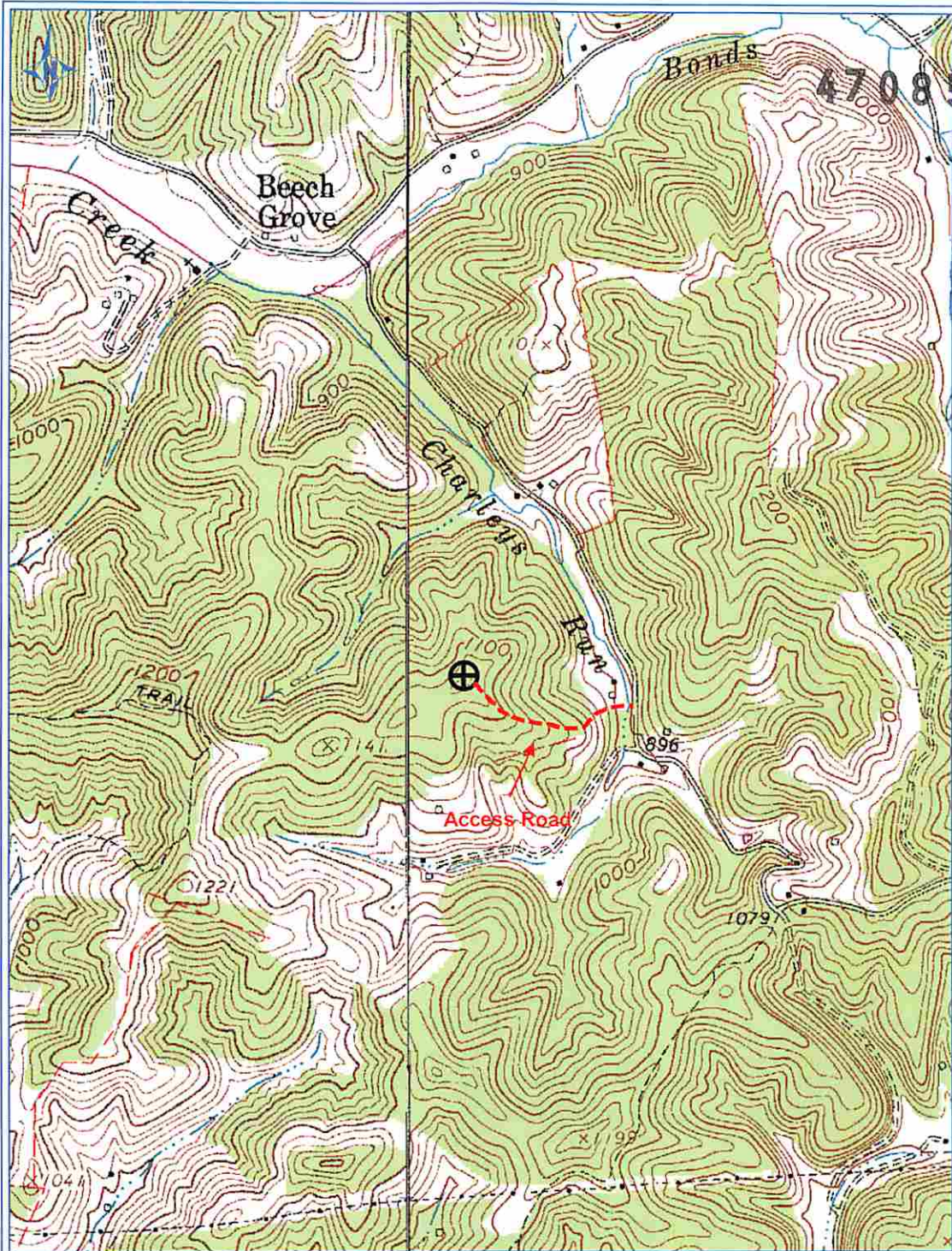
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVENUE PENNSBORO WEST VIRGINIA 26415



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,120' WATERSHED CHARLEYS RUN  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE  
 SURFACE OWNER WALNUT INVESTMENTS CO. ACREAGE 138 ACRES +/-  
 OIL & GAS ROYALTY OWNER WALNUT INVESTMENT CO.; DIAN S. CLINE ET AL.; JOSEPH F. SCHMIDLE III ET AL.; ANN ANDERSON ET AL.; LEASE ACREAGE 238 AC+; 73.5 AC+; 76.8 AC+; 160 AC+;  
 KEY OIL COMPANY: KAREN L. GIEBELL ET UX; CHARLES E. GIEBELL ET AL.; MARY GIBBS ET AL.; DONALD MCCULLOUGH ET UX; JAMES S. DAVIS ET UX; KAREN L. GIEBELL ET AL.; PINNEY HOLDINGS, INC. 62.6 AC+; 68.87 AC+; 201 AC+; 25.03 AC+; 9.25 AC+; 7.437 AC+; 5.531 AC+; 7 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 6,500' TVD 17,200' MD  
 WELL OPERATOR ANTERO RESOURCES CORPORATION DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313 11/28/2014



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## Antero Resources Corp

APPALACHIAN BASIN

Musgrave Unit 1H

Ritchie County

REMARKS

QUADRANGLE: PENNSBORO 7.5

WATERSHED: CHARLEYS RUN

DISTRICT: CLAY

By: ECM



RECEIVED  
Office of Oil and Gas

SEP 08 2014

Department of  
Environmental Protection