

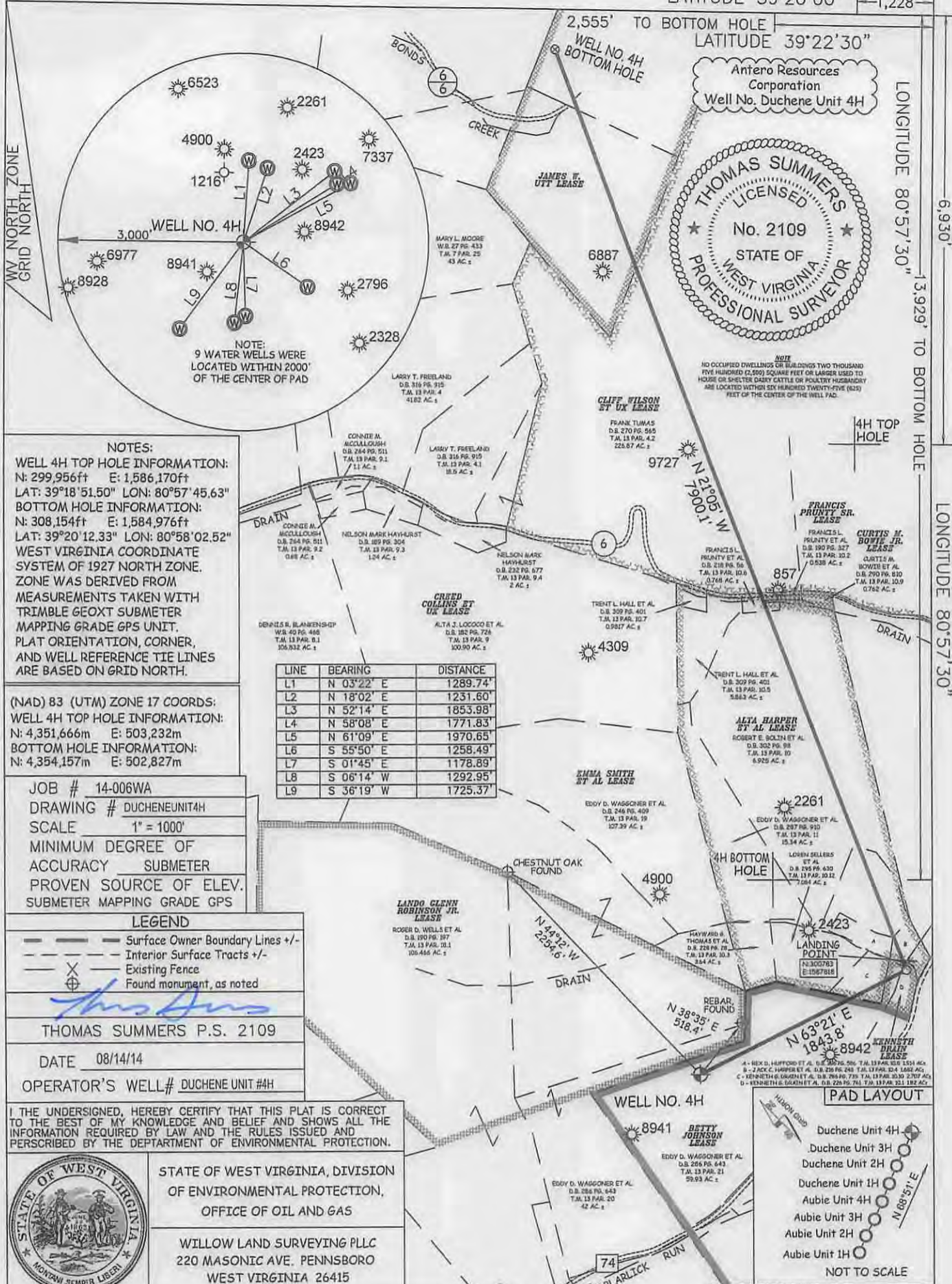
LATITUDE 39°20'00" -1,228'

LATITUDE 39°22'30"

LONGITUDE 80°57'30"

6,930'

LONGITUDE 80°57'30"



**NOTES:**  
**WELL 4H TOP HOLE INFORMATION:**  
 N: 299,956ft E: 1,586,170ft  
 LAT: 39°18'51.50" LON: 80°57'45.63"  
**BOTTOM HOLE INFORMATION:**  
 N: 308,154ft E: 1,584,976ft  
 LAT: 39°20'12.33" LON: 80°58'02.52"  
 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 4H TOP HOLE INFORMATION:**  
 N: 4,351,666m E: 503,232m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,354,157m E: 502,827m

JOB # 14-006WA  
 DRAWING # DUCHENEUNIT4H  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

**LEGEND**

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

THOMAS SUMMERS P.S. 2109  
 DATE 08/14/14  
 OPERATOR'S WELL# DUCHENE UNIT #4H

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

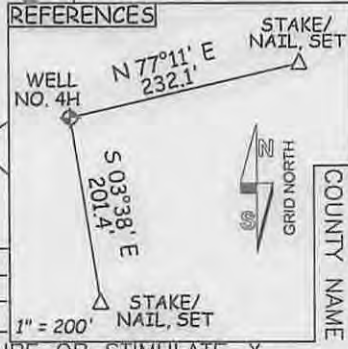
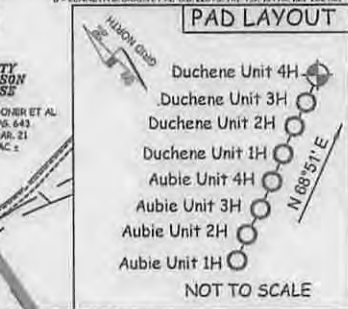
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

API WELL # 47 - 085 - 10168

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

LOCATION: ELEVATION 1,127' WATERSHED POPLARLICK RUN  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER EDDY D. WAGGONER ET AL ACREAGE 59.93 ACRES +/-  
 OIL & GAS ROYALTY OWNER BETTY JOHNSON; ALTA HARPER ET AL; KENNETH DRAIN; FRANCIS PRUNTY SR.; CLIFF WILSON ET UX; JAMES W. UTT

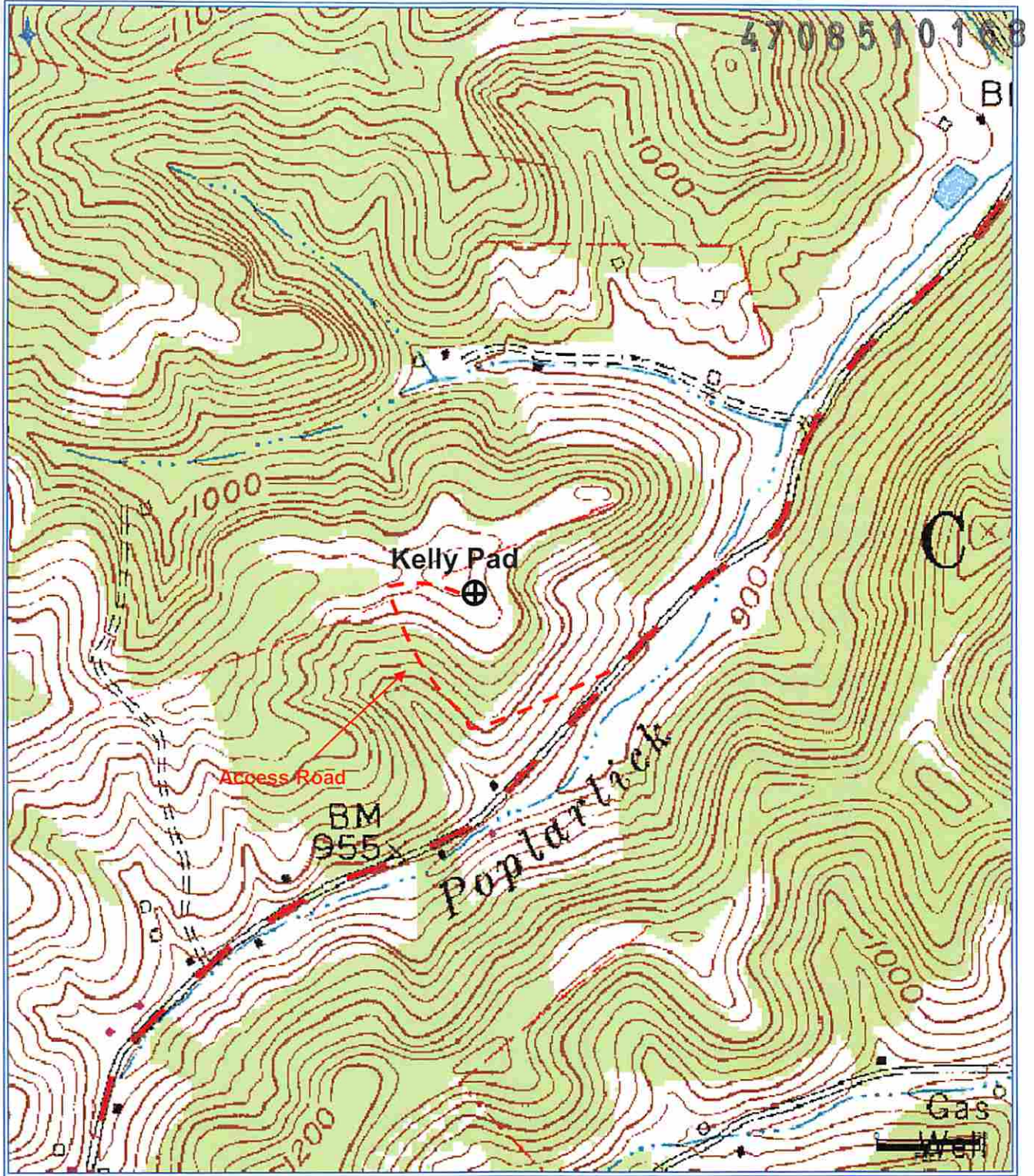


LEASE ACREAGE 130 AC±; 112 AC±; 1.82 AC±; 0.583 AC±; 413 AC±; 82 AC±

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 6,600' TVD 15,100' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

12/12/14



Received

SEP 19 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

**Antero Resources Corporation**

Appalachian Basin

Duchene Unit 4H

Ritchie County

Quadrangle: Pennsboro

Watershed: South Fork Hughes River

District: Clay

Date: 8-27-14