

LATITUDE 39°20'00"

5,650'

8,060' TO BOTTOM HOLE

LATITUDE 39°20'00"

LONGITUDE 80°57'30"

12,554'

LONGITUDE 80°57'30"

Antero Resources Corporation  
Well No. Penns Park Unit 2H

REFERENCES

STAKE/  
NAIL, SET

STAKE/  
NAIL, SET



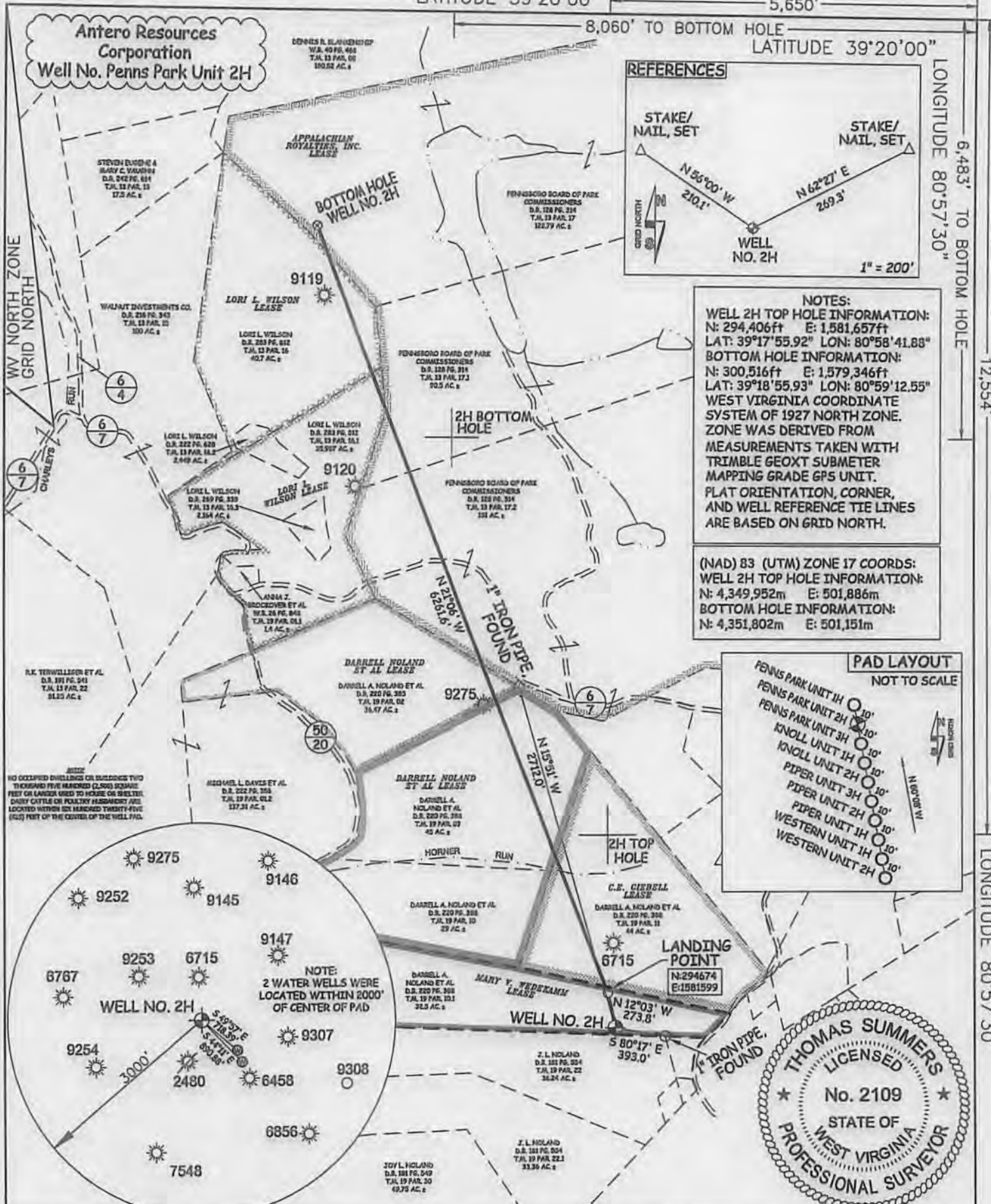
WELL  
NO. 2H

1" = 200'

NOTES:  
WELL 2H TOP HOLE INFORMATION:  
N: 294,406ft E: 1,581,657ft  
LAT: 39°17'55.92" LON: 80°58'41.88"  
BOTTOM HOLE INFORMATION:  
N: 300,516ft E: 1,579,346ft  
LAT: 39°18'55.93" LON: 80°59'12.55"  
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: 4,349,952m E: 501,886m  
BOTTOM HOLE INFORMATION:  
N: 4,351,802m E: 501,151m

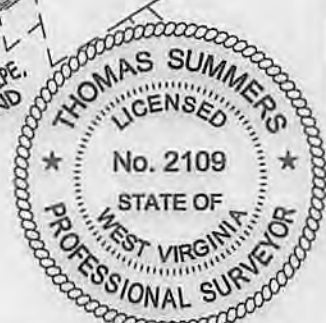
PAD LAYOUT  
NOT TO SCALE



NO OCCUPIED BUILDINGS OR STRUCTURES TWO  
THOUSAND FIVE HUNDRED CLOSURE SQUARE  
FEET OR LARGER USED TO HOUSE OR SHELTER  
DAIRY CATTLE OR POULTRY HUSBANDRY ARE  
LOCATED WITHIN ONE HUNDRED TWENTY-FIVE  
(125) FEET OF THE CENTER OF THE WELL PAD.



NOTE:  
2 WATER WELLS WERE  
LOCATED WITHIN 2000'  
OF CENTER OF PAD



JOB # 13-010WA  
DRAWING # PENNSPARK2H  
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  
266 HUSHERS RUN RD PENNSBORO  
WEST VIRGINIA 26415

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

THOMAS SUMMERS P.S. 2109

DATE 03/11/14  
OPERATOR'S WELL# PENNS PARK UNIT 2H

API WELL # 47 - 085 - 10100 H6A  
STATE COUNTY PERMIT

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 1,143' WATERSHED HORNER RUN  
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

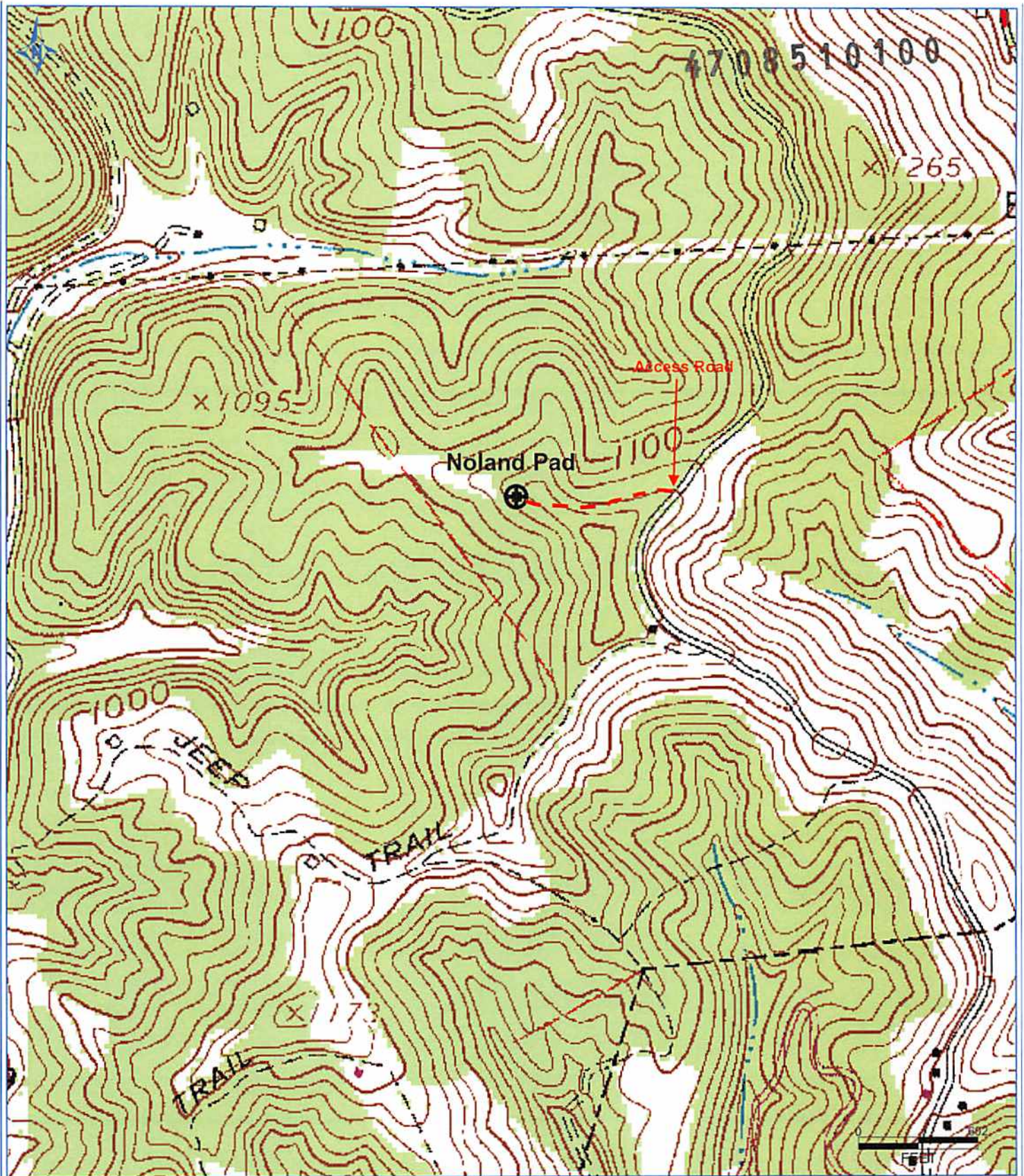
SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/-  
OIL & GAS ROYALTY OWNER MARY Y. WEDEKAMM; C.E. GIBBELL; DARRELL NOLAND ET AL; DARRELL NOLAND ET AL LEASE ACREAGE 32.5 ACRES; 44 ACRES; 74 ACRES; 40 ACRES;  
COLUMBIA NATURAL RESOURCES; COLUMBIA NATURAL RESOURCES; LORI L. WILSON; LORI L. WILSON; APPALACHIAN ROYALTIES INC. 151 ACRES; 90.5 ACRES; 42 ACRES; 40 ACRES; 372.5 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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 13,300 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

06/27/2014



PETRA 3/10/2014 10:03:01 AM

**Antero Resources Corporation**  
Appalachian Basin  
Penns Park Unit 2H  
Ritchie County

Quadrangle: Pennsboro  
Watershed: Horner Run  
District: Clay  
Date: 3-10-2014

Received  
MAR 31 2014  
Office of Oil and Gas  
WV Dept. of Environmental Protection