

LATITUDE 39°20'00"

5,633'

7,316' TO BOTTOM HOLE

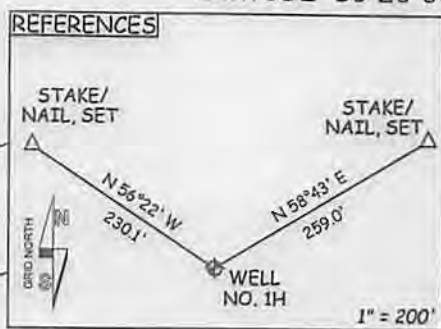
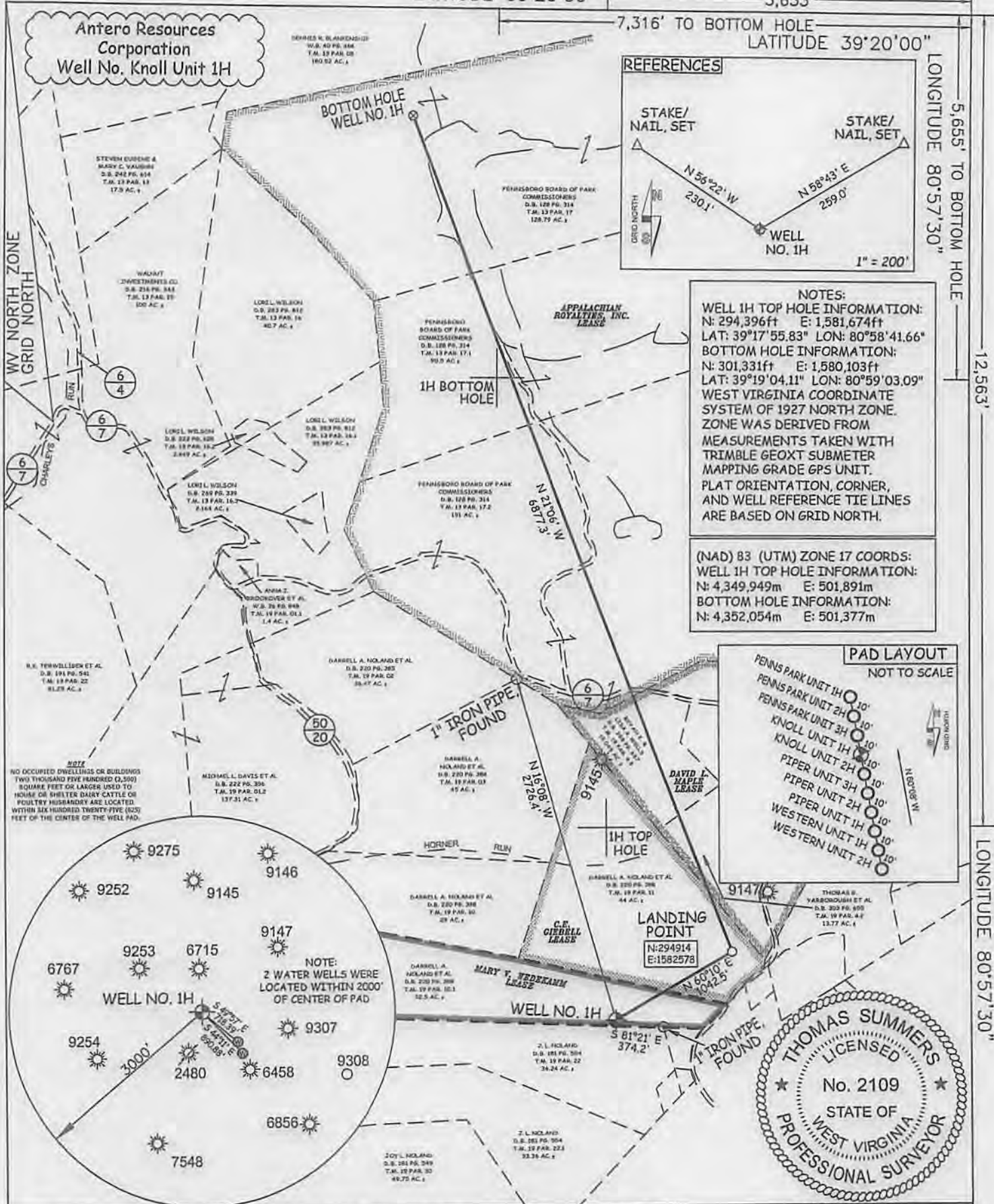
LATITUDE 39°20'00"

LONGITUDE 80°57'30"

5,655' TO BOTTOM HOLE

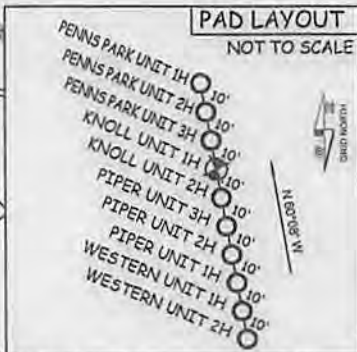
12,563'

LONGITUDE 80°57'30"



NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 294,396ft E: 1,581,674ft
 LAT: 39°17'55.83" LON: 80°58'41.66"
 BOTTOM HOLE INFORMATION:
 N: 301,331ft E: 1,580,103ft
 LAT: 39°19'04.11" LON: 80°59'03.09"
 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: 4,349,949m E: 501,891m
 BOTTOM HOLE INFORMATION:
 N: 4,352,054m E: 501,377m

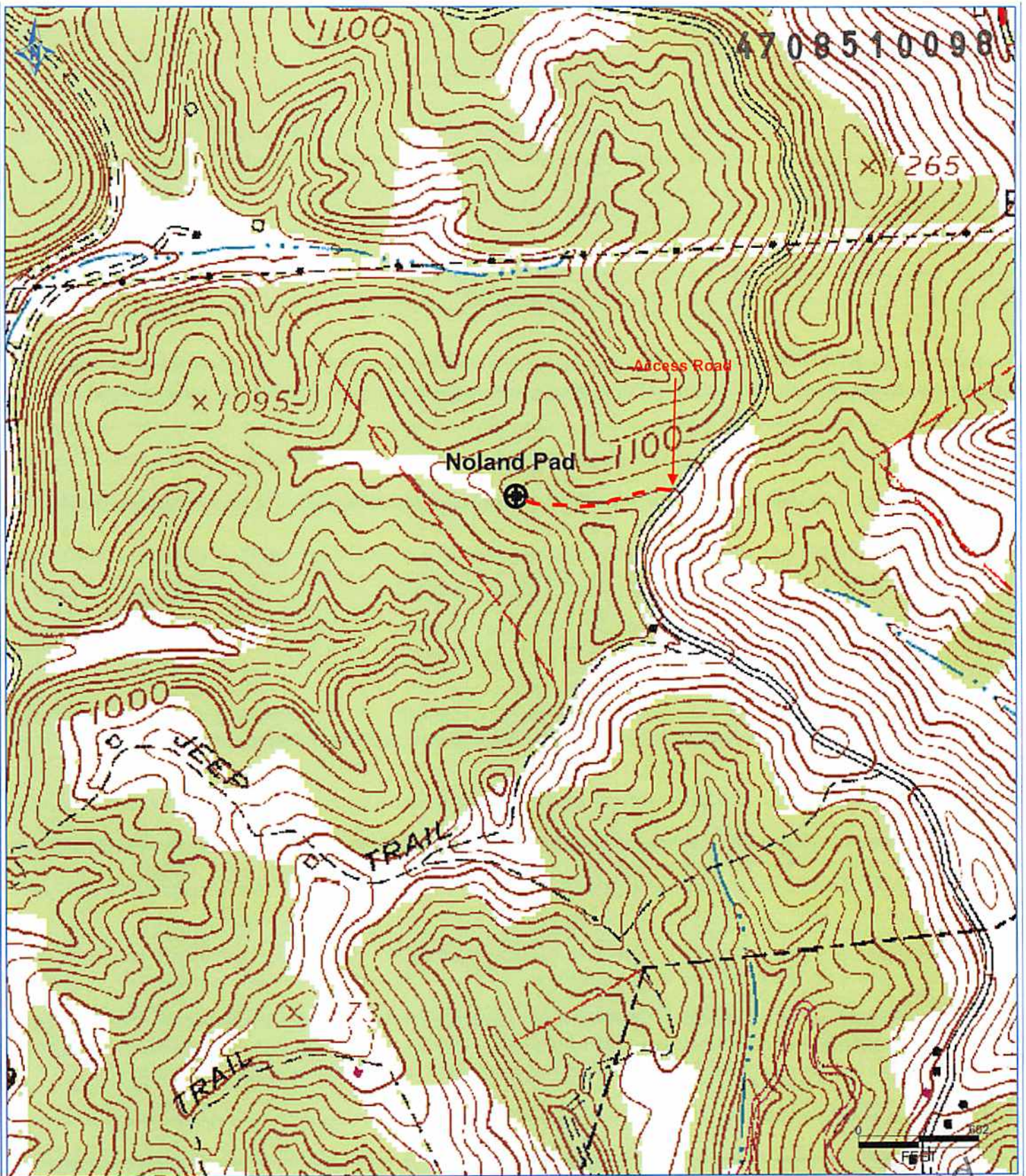


NOTE:
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

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



JOB # 14-003WA DRAWING # KNOLL1H 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.		LEGEND - - - - - Surface Owner Boundary Lines +/- - - - - - Interior Surface Tracts +/- X Existing Fence Rebar, Found	
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		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		THOMAS SUMMERS P.S. 2109 DATE 03/11/14 OPERATOR'S WELL# KNOLL UNIT 1H API WELL # 47 - 085 - 1009846A STATE COUNTY PERMIT	
SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/- OIL & GAS ROYALTY OWNER MARY V. WEDEKAM; C.E. GIEBELL; DAVID L. MAPLE; LEASE ACREAGE 32.5 ACRES+; 44 ACRES+; 54.25 ACRES+ APPALACHAIN ROYALTIES, INC. 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 13,900 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 26319			



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

Antero Resources Corporation
Appalachian Basin
Knoll Unit 1H
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