

LATITUDE 39°20'00"

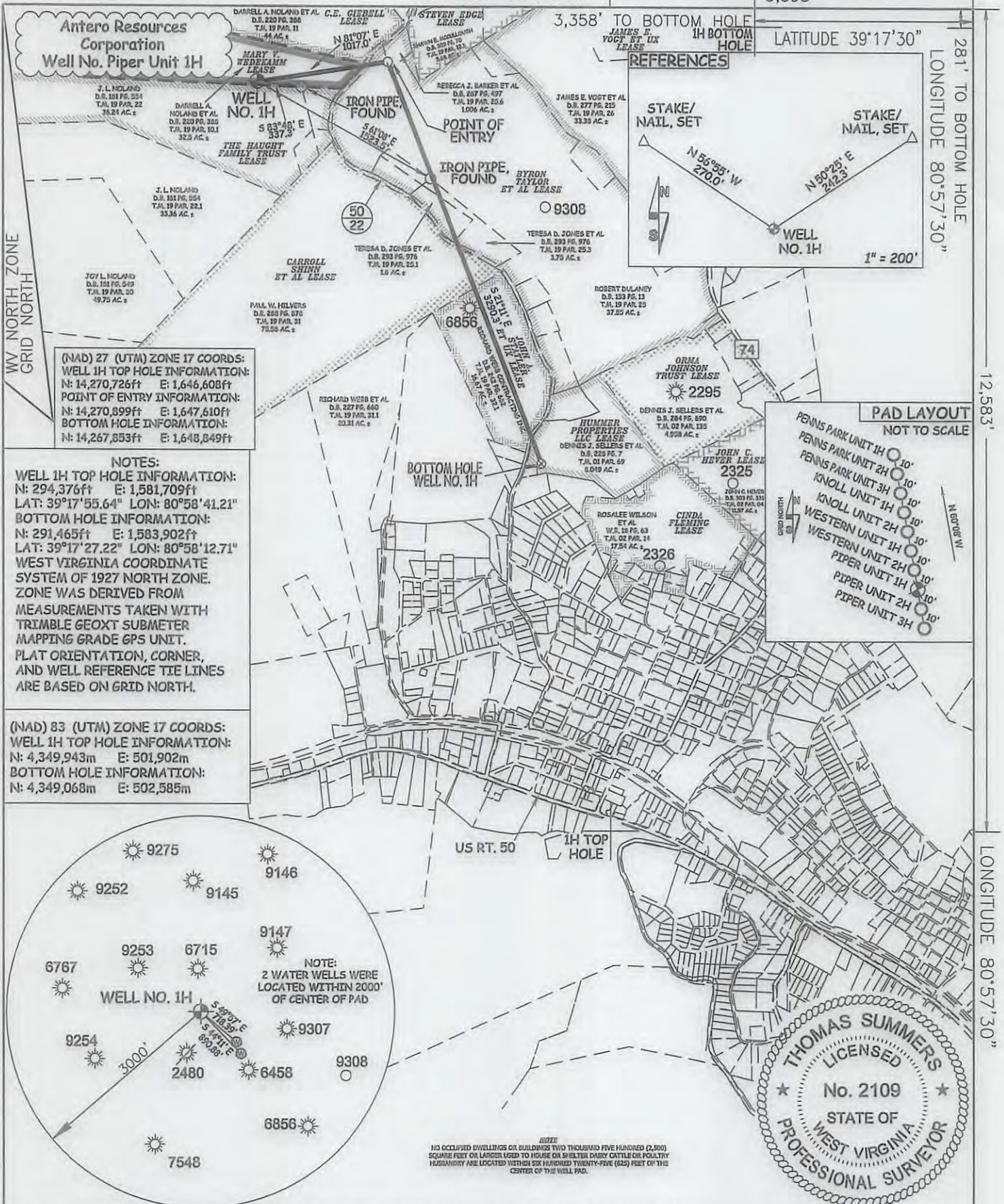
5,598'

LATITUDE 39°17'30"

LONGITUDE 80°57'30"

12,583'

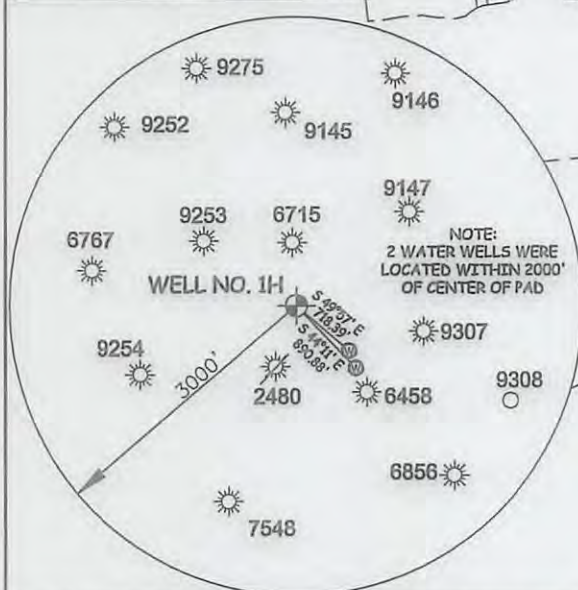
LONGITUDE 80°57'30"



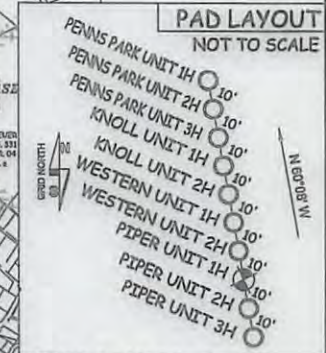
(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,270,726ft E: 1,646,608ft
 POINT OF ENTRY INFORMATION:
 N: 14,270,899ft E: 1,647,610ft
 BOTTOM HOLE INFORMATION:
 N: 14,267,853ft E: 1,648,849ft

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 294,376ft E: 1,581,709ft
 LAT: 39°17'55.64" LON: 80°58'41.21"
 BOTTOM HOLE INFORMATION:
 N: 291,465ft E: 1,583,902ft
 LAT: 39°17'27.22" LON: 80°58'12.71"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. SYSTEM 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: 4,349,943m E: 501,902m
 BOTTOM HOLE INFORMATION:
 N: 4,349,068m E: 502,585m



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



JOB # 16-005WA
 DRAWING # PIPER1HSHORTY
 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
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1,159' ORIGINAL - 1,143' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY FOOT
 SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/-
 OIL & GAS ROYALTY OWNER MARY V. WEDEKAMM; C.E. GIBELL; BYRON TAYLOR ET AL; CARROLL SHIN ET AL; JOHN A. STATLER ET UX; HUMMER PROPERTIES, LLC. LEASE ACREAGE 32.5 ACRES±; 44 ACRES±; 87 ACRES±; 76 ACRES±; 16.87 ACRES±; 13.55 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)
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 11,000' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
DENVER, CO 80202 CHARLESTON, WV 25313

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

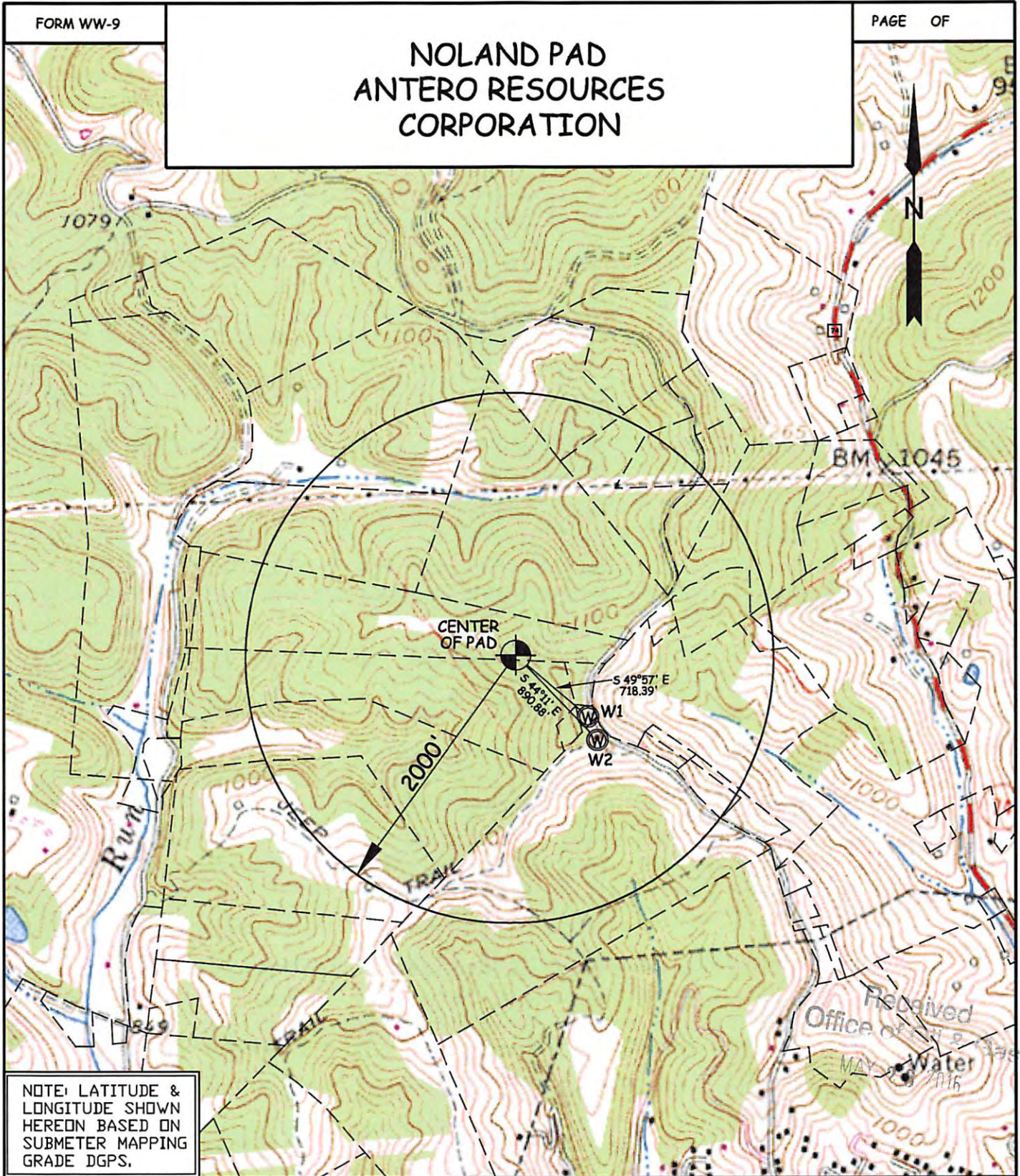
WILLOW LAND SURVEYING PLLC
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

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

THOMAS SUMMERS P.S. 2109
 DATE 05/11/16
 OPERATOR'S WELL# PIPER UNIT 1H
 API WELL # 47 - 085 - 10291
 STATE COUNTY PERMIT
FOOT CLAY 09/02/2016

COUNTY NAME PERMIT

NOLAND PAD ANTERO RESOURCES CORPORATION



NOTE: LATITUDE & LONGITUDE SHOWN HEREON BASED ON SUBMETER MAPPING GRADE DGPS.

WELL	SURFACE OWNER	ADDRESS	DISTRICT-TAX MAP-PARCEL	WELL LATITUDE	WELL LONGITUDE
W1	MICHAEL G. & LINDA HAMMETT	702 PARK DR. PENNSBORO, WV 26415	3-19-23	39° 17' 51.31"	80° 58' 34.57"
W2	PAUL W. HILVERS	12479 PULLMAN RD PENNSBORO, WV 26415	3-19-31	39° 17' 49.58"	80° 58' 33.63"

WILLOW LAND SURVEYING, PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717	TOPO SECTION(S) OF: PENNSBORO 7.5' QUAD.	SCALE : 1-INCH = 1000-FEET 0' 1000' 2000' 3000'
	JOB #: 13-043WA	
DATE: 03/11/14	DRAWN BY: G.B.K.	FILE: NOLANDWATERMAP