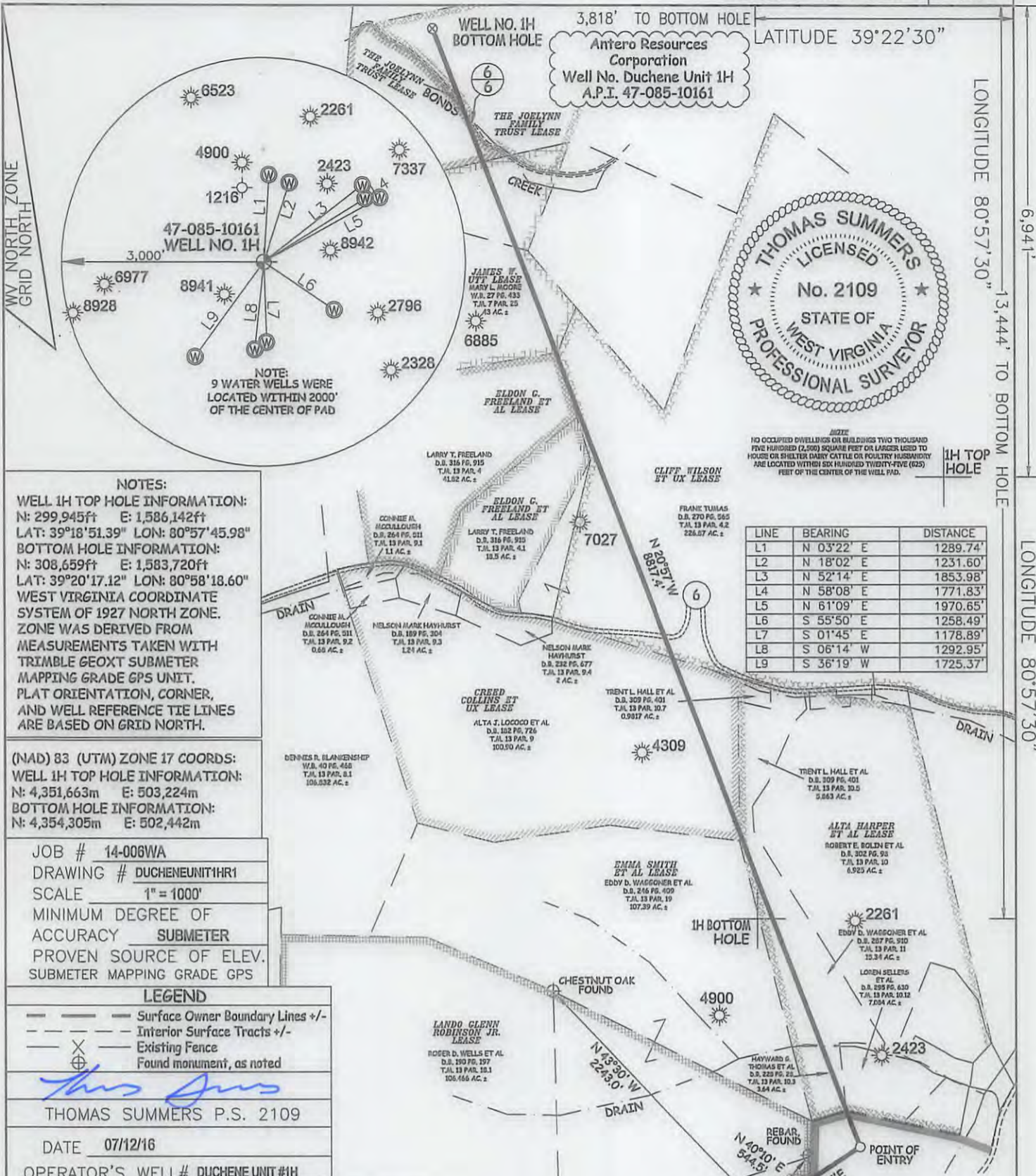


LATITUDE 39°20'00" -1,256'

LATITUDE 39°22'30"

LONGITUDE 80°57'30" 1,444' TO BOTTOM HOLE

LONGITUDE 80°57'30" 6,941'



NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 299,945ft E: 1,586,142ft
LAT: 39°18'51.39" LON: 80°57'45.98"
BOTTOM HOLE INFORMATION:
N: 308,659ft E: 1,583,720ft
LAT: 39°20'17.12" LON: 80°58'18.60"
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: 4,351,663m E: 503,224m
BOTTOM HOLE INFORMATION:
N: 4,354,305m E: 502,442m

JOB # 14-006WA
DRAWING # DUCHENEUNIT1HR1
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

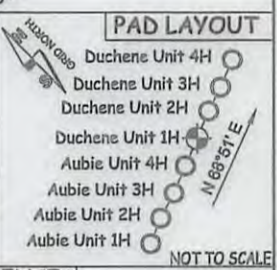
THOMAS SUMMERS P.S. 2109
DATE 07/12/16
OPERATOR'S WELL# DUCHENE UNIT #1H

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.

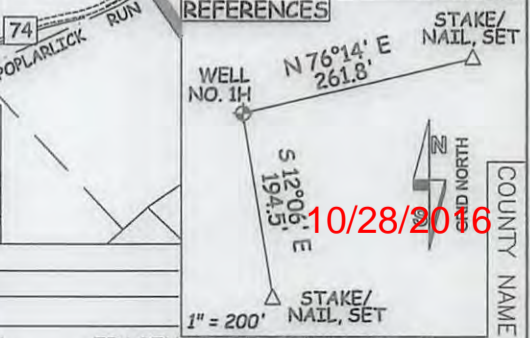


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,276,366ft E: 1,650,946ft
POINT OF ENTRY INFORMATION:
N: 14,276,858ft E: 1,651,670ft
BOTTOM HOLE INFORMATION:
N: 14,285,035ft E: 1,648,381ft



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,145' ORIGINAL - 1,127' PROPOSED WATERSHED NORTH FORK HUGHES RIVER
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; CREED COLLINS ET UX; CLIFF WILSON ET UX;
ELDON G. FREELAND ET AL; JAMES W. UTT; THE JOELYNN FAMILY TRUST; THE JOELYNN FAMILY TRUST



API WELL # 47 - 085 - 10161 MBO
STATE COUNTY PERMIT
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 17,600' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313
FORM WW-6 DENVER, CO 80202