

LATITUDE 39°25'00"

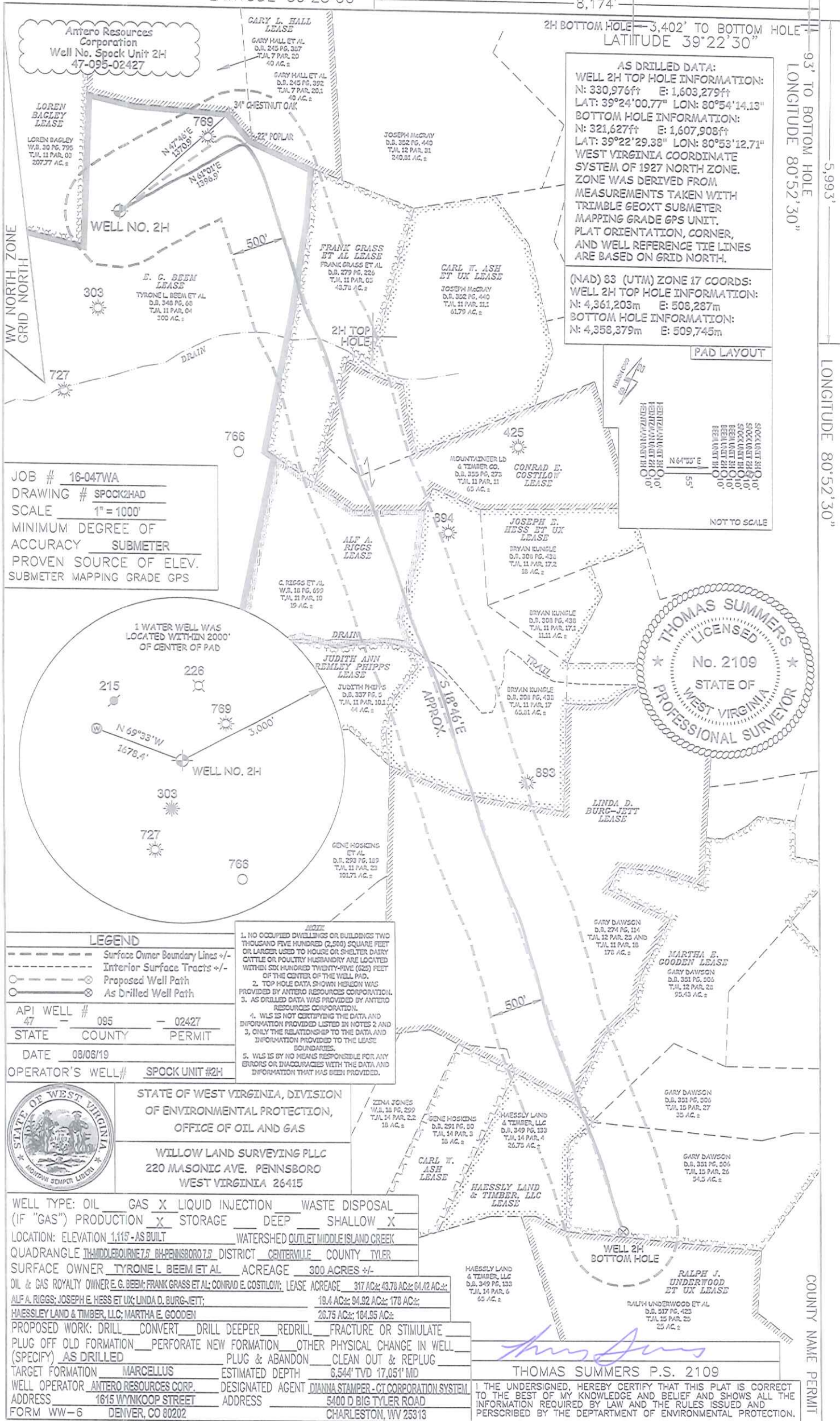
8,174'

2H BOTTOM HOLE - 3,402' TO BOTTOM HOLE  
LATITUDE 39°22'30"

93' TO BOTTOM HOLE  
LONGITUDE 80°52'30"

5,993'

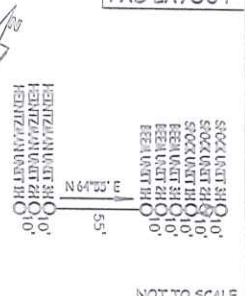
LONGITUDE 80°52'30"



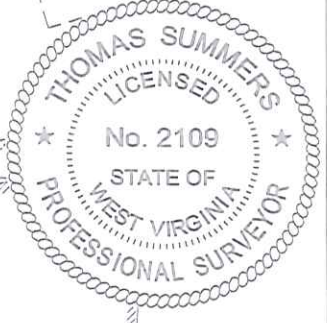
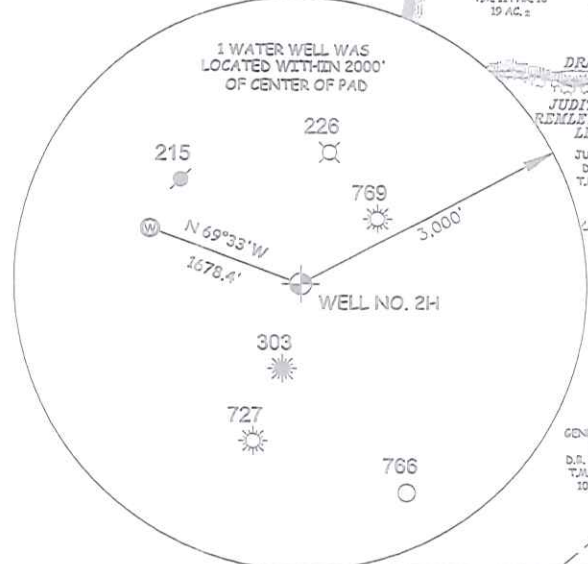
**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
 N: 330,976ft E: 1,603,279ft  
 LAT: 39°24'00.77" LON: 80°54'14.13"  
**BOTTOM HOLE INFORMATION:**  
 N: 321,627ft E: 1,607,908ft  
 LAT: 39°22'29.38" LON: 80°53'12.71"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM 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: 4,361,203m E: 508,287m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,358,379m E: 509,745m

PAD LAYOUT



JOB # 16-047WA  
 DRAWING # SPOCK2HAD  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



**LEGEND**  
 - - - Surface Owner Boundary Lines +/-  
 - - - Interior Surface Tracts +/-  
 - - - Proposed Well Path  
 - - - As Drilled Well Path

API WELL # 47 095 02427  
 STATE COUNTY PERMIT  
 DATE 09/08/19  
 OPERATOR'S WELL# SPOCK UNIT #2H

**NOTES**  
 1. 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.  
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.  
 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,119' AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE THIDDLEBOURNE 7.5 BH-PENNSBORO 7.5 DISTRICT CENTERVILLE COUNTY TYLER  
 SURFACE OWNER TYRONE L. BEEM ET AL ACREAGE 300 ACRES +/-  
 OIL & GAS ROYALTY OWNER E. G. BEEM; FRANK GRASS ET AL; CONRAD E. COSTILOV; LEASE ACREAGE 317 AC; 43.70 AC; 64.42 AC;  
 ALF A. RIGGS; JOSEPH E. HESS ET UX; LINDA D. BURG-JETT; 19.4 AC; 94.92 AC; 178 AC;  
 HAESSLEY LAND & TIMBER, LLC; MARTHA E. GOODEN 26.75 AC; 104.95 AC;  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED  PLUG & ABANDON  CLEAN OUT & REPLUG   
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,544' TVD 17,051' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

THOMAS SUMMERS P.S. 2109  
 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.

COUNTY NAME PERMIT