

LATITUDE 39°25'00"

8,183'

3,726' TO BOTTOM HOLE

IH BOTTOM HOLE

LATITUDE 39°22'30"

LONGITUDE 80°52'30"

5,998'

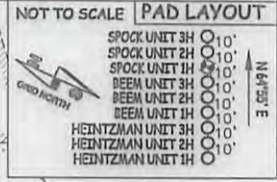
LONGITUDE 80°52'30"

Antero Resources Corporation Well No. Spock Unit 1H

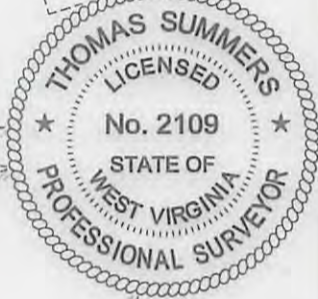
NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 330,972ft E: 1,603,270ft
 LAT: 39°24'00.73" LON: 80°54'14.24"
 BOTTOM HOLE INFORMATION:
 N: 321,659ft E: 1,607,584ft
 LAT: 39°22'29.35" LON: 80°53'17.45"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,361,202m E: 508,284m
 BOTTOM HOLE INFORMATION:
 N: 4,358,387m E: 509,646m

(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,307,663ft E: 1,667,548ft
 POINT OF ENTRY INFORMATION:
 N: 14,307,898ft E: 1,668,619ft
 BOTTOM HOLE INFORMATION:
 N: 14,298,427ft E: 1,672,016ft

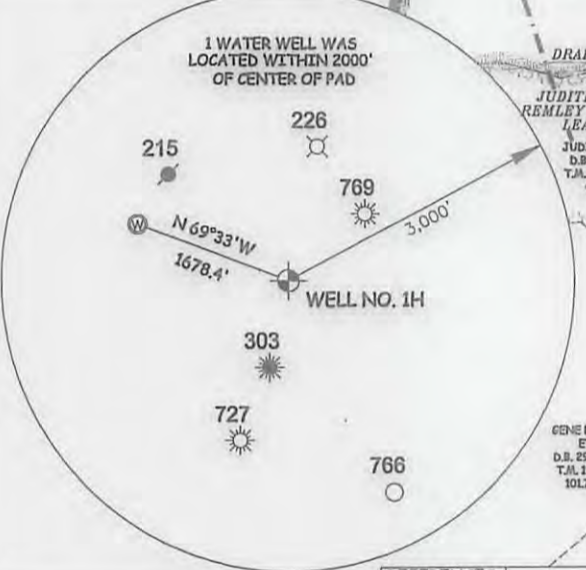


NOTE:
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER CATTLE OR POLICITY HERDSHIP ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



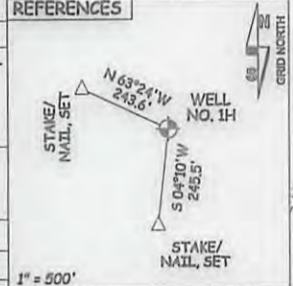
WV NORTH ZONE GRID NORTH

JOB # 16-047WA
 DRAWING # SPOCK1HR2
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



LEGEND
 - - - - - Surface Owner Boundary Lines +/-
 - - - - - Interior Surface Tracts +/-
 - - - - - Existing Fence
 ⊕ Monument, Found As Specified

API WELL # 47 - 095 - 02478
 STATE COUNTY PERMIT
 DATE 08/24/17
 OPERATOR'S WELL # SPOCK UNIT #1H



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 1,142' - PROPOSED 1,115' - ORIGINAL WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE THIDDLEBOURNE 7.5 BH PENNSBORO 7.2 DISTRICT CENTERTVILLE 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. COSTILOW; LEASE ACREAGE 317 AC±; 43.78 AC±; 64.42 AC±;
 ALF A. RIGGS; JUDITH ANN REMLEY PHIPPS; JOSEPH E. HESS ET UX; LINDA D. BURG-JETT; 19.4 AC±; 44 AC±; 94.92 AC±; 170 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)
 PLUG & ABANDON PLUG CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 17,200' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYMKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

ZINA JONES W.B. 18 PG. 259 T.J. 14 PAR. 2,2 18 AC. ±
 GENE HOSKINS D.B. 291 PG. 00 T.J. 14 PAR. 3 16 AC. ±
 HAESSLEY LAND & TIMBER, LLC D.B. 349 PG. 133 T.J. 14 PAR. 4 26.75 AC. ±
 GARY DAWSON D.B. 351 PG. 505 T.J. 15 PAR. 27 35 AC. ±
 GARY DAWSON D.B. 351 PG. 505 T.J. 15 PAR. 26 54.5 AC. ±
 RALPH UNDERWOOD ET AL D.B. 517 PG. 423 T.J. 15 PAR. 25 25 AC. ±

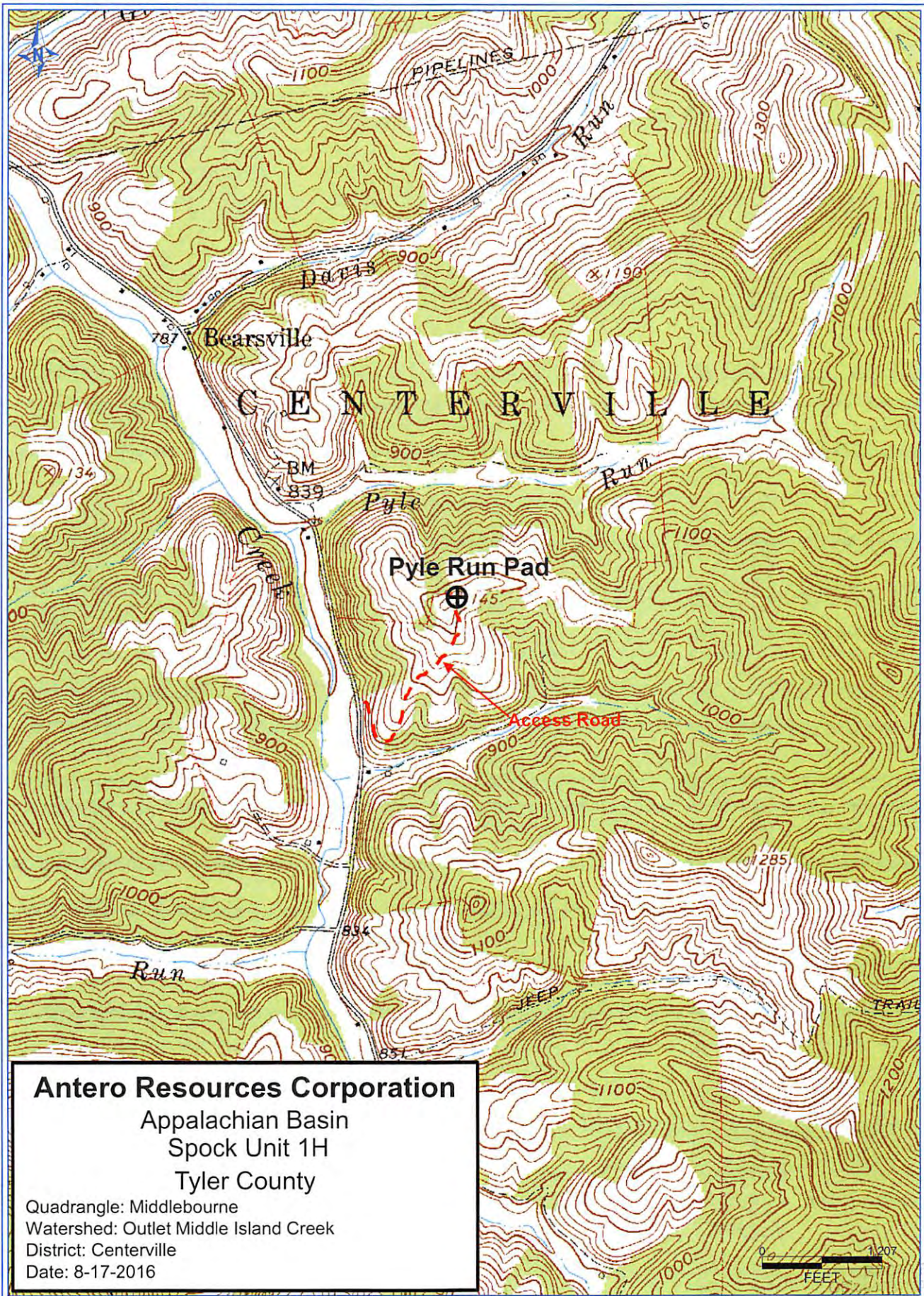
THOMAS SUMMERS P.S. 2109

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 PERFORMED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

10/27/2017

THOMAS SUMMERS P.S. 2109

COUNTY NAME PERMIT



10/27/2017