

LATITUDE 39°15'00" 1,316'

6,826' TO BOTTOM HOLE

LATITUDE 39°17'30"

LONGITUDE 80°22'30"

4,810'

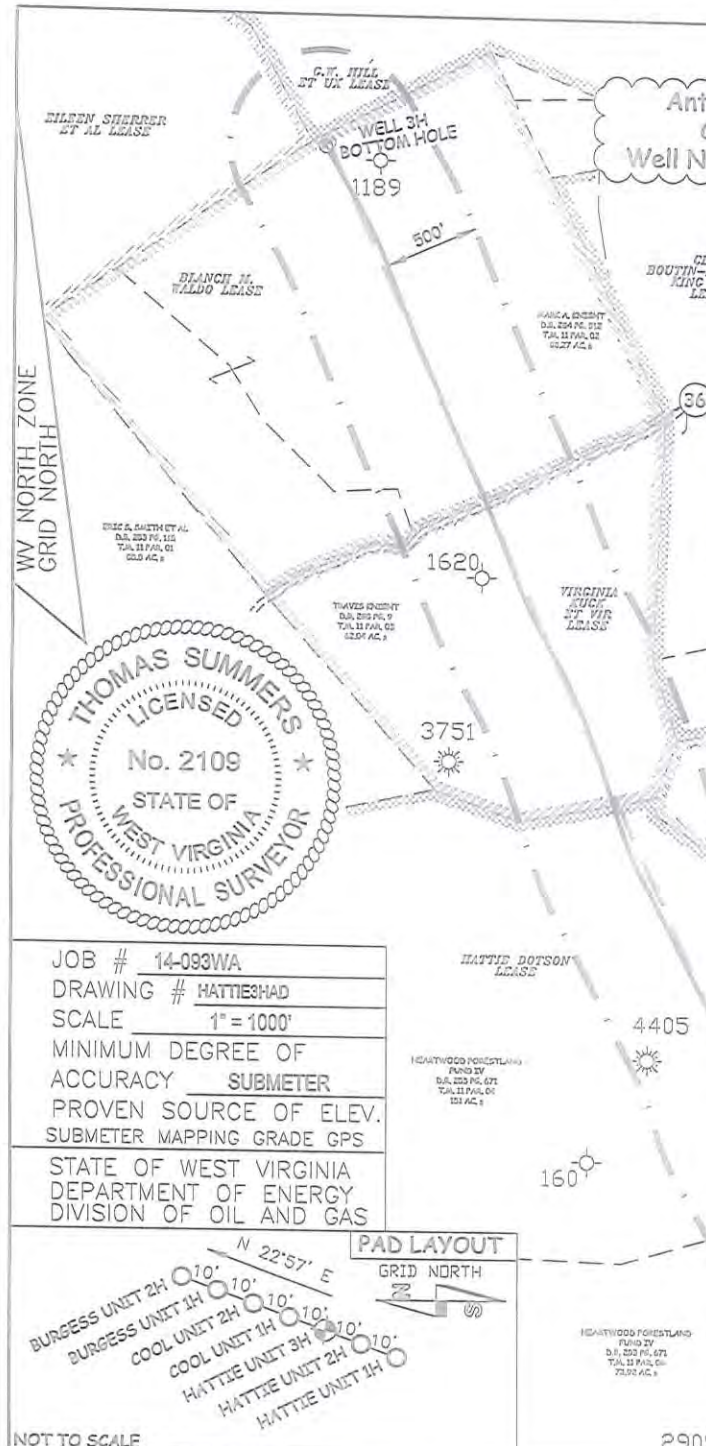
9,972' TO BOTTOM HOLE

LONGITUDE 80°52'30"

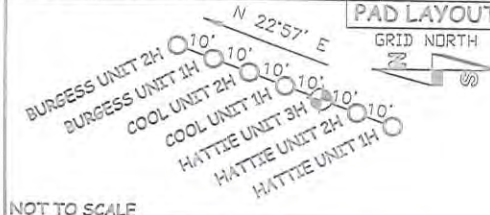
AS DRILLED DATA:
 WELL 3H TOP HOLE INFORMATION:
 N: 271,356ft E: 1,609,225ft
 LAT: 39°14'12.46" LON: 80°52'46.73"
 BOTTOM HOLE INFORMATION:
 N: 281,454ft E: 1,603,869ft
 LAT: 39°15'51.44" LON: 80°53'56.79"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE
 MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD 83 (UTM) ZONE 17 COORDS:
 WELL 3H TOP HOLE INFORMATION:
 N: 4,343,070m E: 510,402m
 BOTTOM HOLE INFORMATION:
 N: 4,346,120m E: 508,719m

LINE	BEARING	DISTANCE
L1	S 77°00' E	1379.04'
L2	S 76°35' E	1804.51'
L3	S 75°04' E	1554.60'
L4	S 65°46' E	1596.34'
L5	S 64°01' E	1381.04'
L6	S 63°52' E	1035.73'
L7	S 60°31' E	1013.41'
L8	S 50°00' E	1045.00'
L9	S 51°10' E	1175.61'
L10	S 48°41' E	1080.70'
L11	S 44°24' E	1202.08'
L12	S 41°37' E	1125.04'
L13	S 32°54' E	947.63'
L14	S 21° E	1151.29'
L15	S 17°00' E	1113.08'
L16	S 08°23' E	1113.22'
L17	S 01°58' W	1414.85'
L18	S 05°17' W	1426.29'
L19	S 23°05' W	1800.45'
L20	S 42°21' W	1208.64'
L21	S 67°20' W	1416.97'
L22	S 73°24' W	1429.65'



JOB # 14-093WA
 DRAWING # HATTIE3HAD
 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



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

THOMAS SUMMERS P.S. 2109
 DATE 01/29/19
 OPERATOR'S WELL # HATTIE UNIT #3H
 API WELL # 47 - 017 - 06837
 STATE COUNTY PERMIT

NOTE:
 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,000) 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 ALLEGHENY SURVEYS, INC.
 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.

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

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1,095' AS BUILT WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PULLMAN 7.5 (TH) PENNSBORO 7.5 (8H) DISTRICT CENTRAL COUNTY DODDRIDGE
 SURFACE OWNER STANLEY WEBB ET AL ACREAGE 59.18 ACRES +/-
 OIL & GAS ROYALTY OWNER RALPH LEGGETT ET UX; HAROLD BURGESS ET UX; I.L. MORRIS;
 GERALDINE WILLARD; HATTIE DOTSON; VIRGINIA KUCK ET VIR; BLANCH M. WALDO
 LEASE ACREAGE 75 ACRES:: 43.5 ACRES:: 26 ACRES:: 131.5 ACRES:: 240 ACRES:: 56 ACRES:: 95 ACRES::
 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
 TARGET FORMATION MARCELLUS PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 ESTIMATED DEPTH 6,472' TVD 18,390' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

