

LATITUDE 39°15'00"

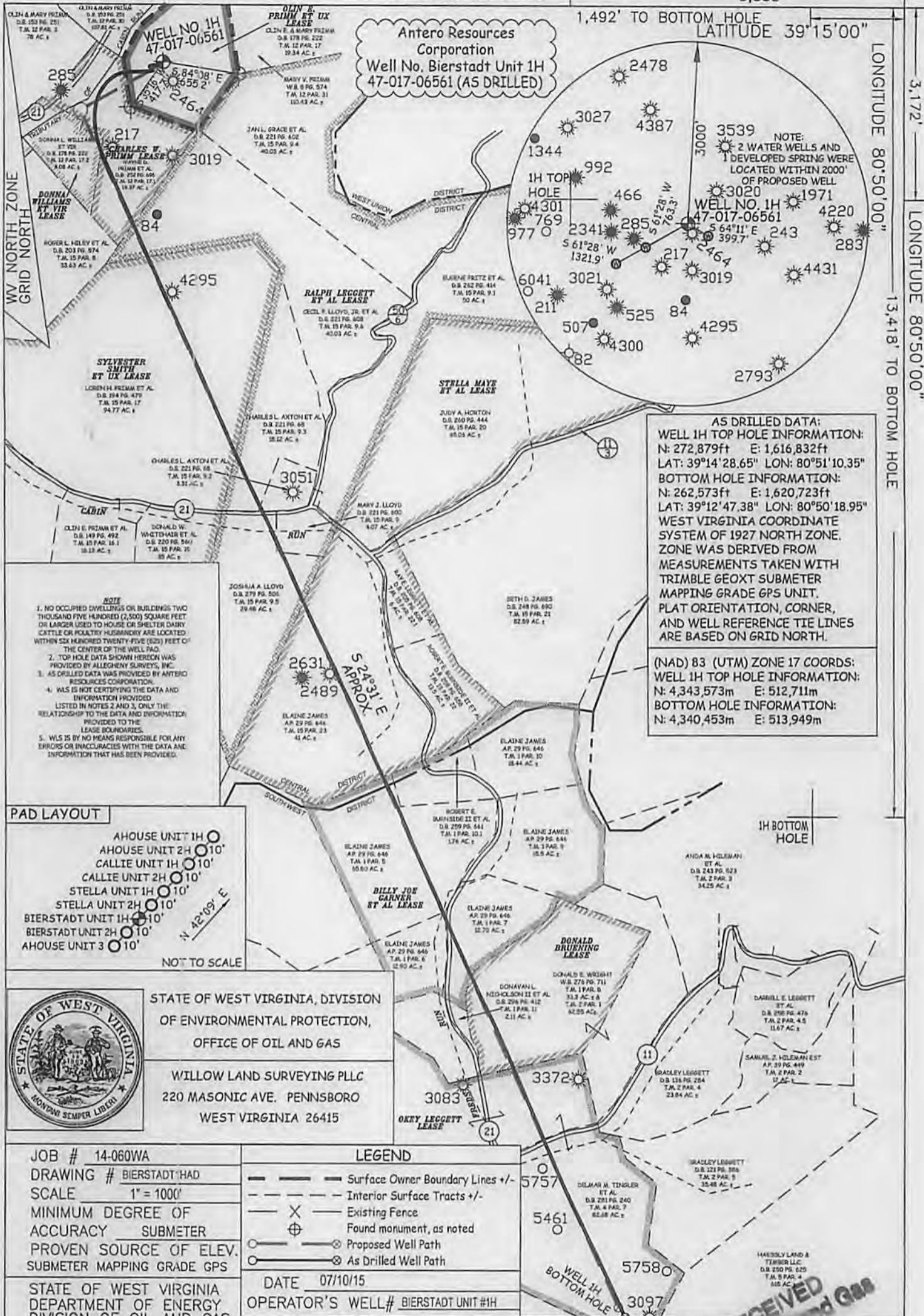
5,535'

1,492' TO BOTTOM HOLE

LATITUDE 39°15'00"

LONGITUDE 80°50'00"

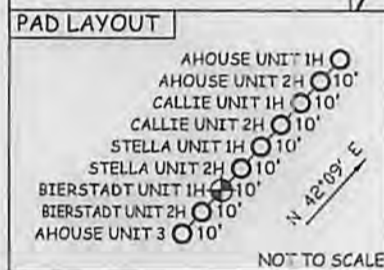
LONGITUDE 80°50'00"



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 272,879ft E: 1,616,832ft
 LAT: 39°14'28.65" LON: 80°51'10.35"
BOTTOM HOLE INFORMATION:
 N: 262,573ft E: 1,620,723ft
 LAT: 39°12'47.38" LON: 80°50'18.95"
 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: 4,343,573m E: 512,711m
BOTTOM HOLE INFORMATION:
 N: 4,340,453m E: 513,949m

- NOTE**
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 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.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 14-060WA
 DRAWING # BIERSTADT:HAD
 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
- Proposed Well Path
- ⊗ As Drilled Well Path

DATE 07/10/15
 OPERATOR'S WELL# BIERSTADT UNIT #1H

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 1,030 ORIGINAL - 1,008' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER STATE _____ COUNTY _____ PERMIT _____
 QUADRANGLE OXFORD 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE
 SURFACE OWNER OLIN E. & MARY PRIMM ACREAGE 19.34 ACRES +/-
 OIL & GAS ROYALTY OWNER OLIN E. PRIMM ET UX; CHARLES W. PRIMM, DONNA WILLIAMS ET VIR; LEASE ACREAGE 19.34 ACRES +/- 19.37 ACRES +/- 11.25 ACRES +/-
 RALPH LEGGETT ET AL; SYLVESTER SMITH ET UX; STELLA MAYE ET AL; BILLY JOE GARNER ET AL; DONALD BRUENING; OKY LEGGETT 187 ACRES +/- 210 ACRES +/- 125.5 ACRES +/- 83.79 ACRES +/- 33.33 ACRES +/- 141 ACRES +/-
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,417' TVD 17,667' MD
 WELL OPERATOR ANTERO RESOURCES CORP DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

10/30/2015

OH OIL AND GAS