

LATITUDE 39°12'30"

7,445'

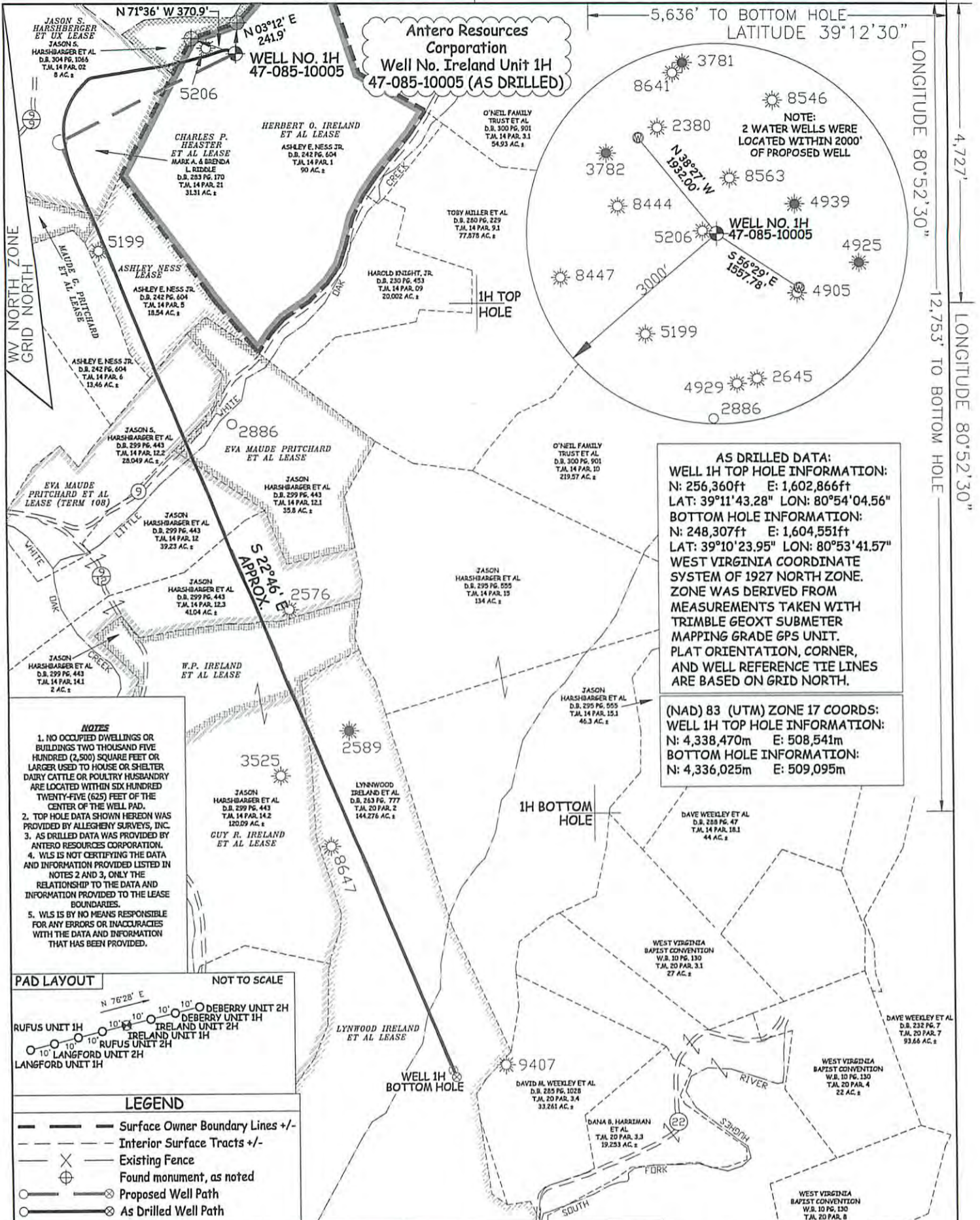
5,636' TO BOTTOM HOLE  
LATITUDE 39°12'30"

LONGITUDE 80°52'30"

4,727'

LONGITUDE 80°52'30"

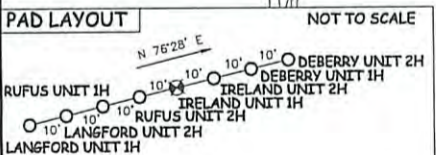
12,753' TO BOTTOM HOLE



**AS DRILLED DATA:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 256,360ft E: 1,602,866ft  
 LAT: 39°11'43.28" LON: 80°54'04.56"  
**BOTTOM HOLE INFORMATION:**  
 N: 248,307ft E: 1,604,551ft  
 LAT: 39°10'23.95" LON: 80°53'41.57"  
 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: 4,338,470m E: 508,541m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,336,025m E: 509,095m

- 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 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.



- LEGEND**
- Surface Owner Boundary Lines +/-
  - - - Interior Surface Tracts +/-
  - Existing Fence
  - ⊕ Found monument, as noted
  - ⊙ Proposed Well Path
  - ⊗ As Drilled Well Path

JOB # 12-059WA  
 DRAWING # IRELANDHAD  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



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

WEST VIRGINIA BAPTIST CONVENTION ET AL D.B. 182 PG. 577 T.J. 20 PAR. 9 39.88 AC. ±  
 CAROL MYERS ET AL D.B. 182 PG. 577 T.J. 20 PAR. 9 39.88 AC. ±

DATE 03/30/15  
 OPERATOR'S WELL# IRELAND 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: ORIGINAL GROUND ELEV. 1,080' AS DRILLED ELEV. 1,076' WATERSHED SOUTH FORK HUGHES RIVER  
 QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE

SURFACE OWNER ASHLEY E. NESS JR. ACREAGE 90 ACRES +/-  
 OIL & GAS ROYALTY OWNER HERBERT O. IRELAND ET AL; JASON S. HARSHBERGER ET UX; CHARLES P. HEASTER ET AL; MAUDE G. PRITCHARD ET AL; ASHLEY NESS; EVA MAUDE PRITCHARD ET AL (TERM 108); EVA MAUDE PRITCHARD ET AL; W.P. IRELAND ET AL; GUY R. IRELAND ET AL; LYNNWOOD IRELAND ET AL  
 LEASE ACREAGE 90 AC. ±; 8 AC. ±; 234.5 AC. ±; 137 AC. ±; 18.54 AC. ±; 108 AC. ±; 35 AC. ±; 34 AC. ±; 222 AC. ±; 415 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 6,520' TVD 15,017' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT

06/12/2015