

LATITUDE 39°15'00"

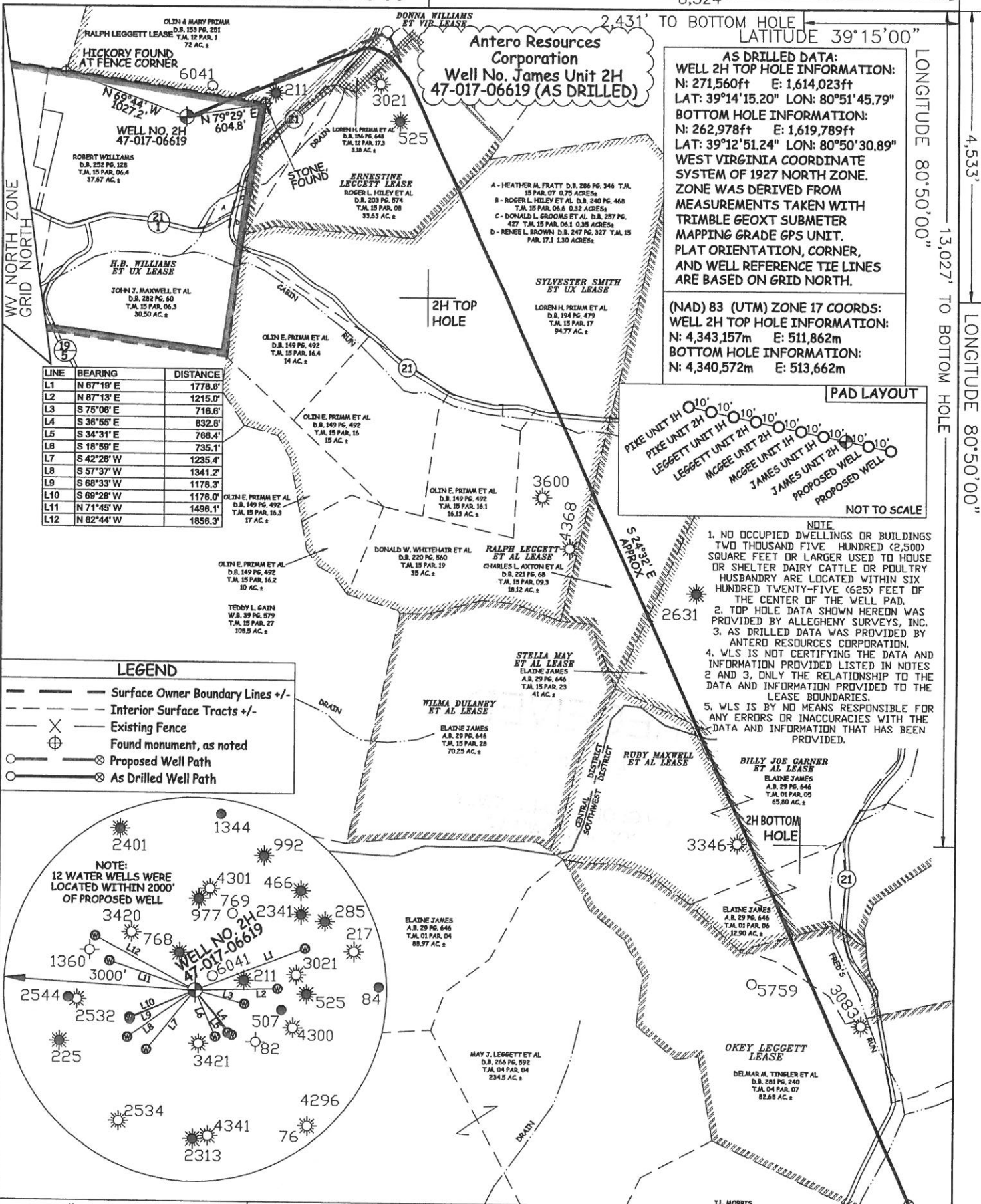
8,324'

LATITUDE 39°15'00"

4,533'

13,027' TO BOTTOM HOLE

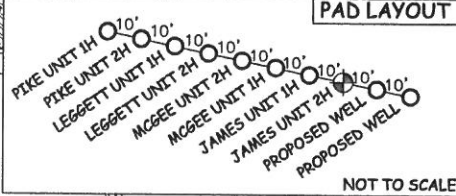
LONGITUDE 80°50'00"



**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
 N: 271,560ft E: 1,614,023ft  
 LAT: 39°14'15.20" LON: 80°51'45.79"  
**BOTTOM HOLE INFORMATION:**  
 N: 262,978ft E: 1,619,789ft  
 LAT: 39°12'51.24" LON: 80°50'30.89"  
 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: 4,343,157m E: 511,862m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,340,572m E: 513,662m

**PAD LAYOUT**

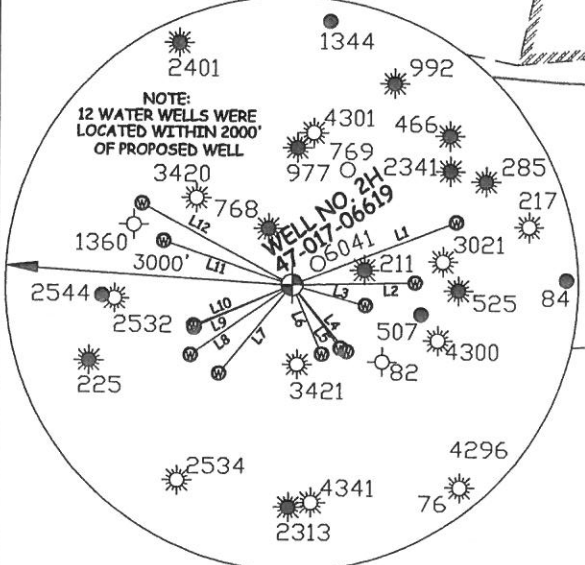


- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
  2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY 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.

LINE	BEARING	DISTANCE
L1	N 87°19' E	1778.8'
L2	N 87°13' E	1215.0'
L3	S 75°08' E	716.8'
L4	S 38°55' E	832.8'
L5	S 34°31' E	768.4'
L6	S 18°58' E	735.1'
L7	S 42°28' W	1235.4'
L8	S 57°37' W	1341.2'
L9	S 68°33' W	1178.3'
L10	S 68°28' W	1178.0'
L11	N 71°45' W	1498.1'
L12	N 82°44' W	1858.3'

**LEGEND**

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



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

DATE 05/29/15  
 OPERATOR'S WELL# JAMES UNIT #2H  
 API WELL # 47 - 017 - 06619  
 STATE COUNTY PERMIT

JOB # 14-074WA  
 DRAWING # JAMESZHAD  
 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  
 WELL TYPE: OIL GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,000' ORIGINAL - 990' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE OXFORD 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE

SURFACE OWNER ROBERT WILLIAMS ACREAGE 37.87 ACRES +/-  
 OIL & GAS ROYALTY OWNER H.B. WILLIAMS ET UX; RALPH LEGGETT; DONNA WILLIAMS ET VIR; LEASE ACREAGE 307 ACRES +/-; 48 ACRES +/-; 11.25 ACRES +/-; ERNESTINE LEGGETT; SYLVESTER SMITH ET UX; RALPH LEGGETT ET AL; STELLA MAY ET AL; BILLY JOE GARNER ET AL; RUBY MAXWELL ET AL; OKEY LEGGETT 48 ACRES +/-; 210 ACRES +/-; 187 ACRES +/-; 126.5 ACRES +/-; 83.79 ACRES +/-; 50.5 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)  AS DRILLED  PLUG & ABANDON  CLEAN OUT & REPLUG   
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,432' TVD 16,812' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM  
DENVER, CO 80202 5400 D BIG TYLER ROAD  
CHARLESTON, WV 25313

COUNTY NAME PERMIT