

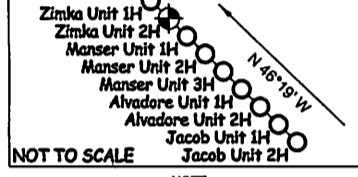
**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
 N: 288,137ft E: 1,667,921ft  
 LAT: 39°17'06.55" LON: 80°40'23.58"  
**BOTTOM HOLE INFORMATION:**  
 N: 295,070ft E: 1,664,656ft  
 LAT: 39°18'14.65" LON: 80°41'06.26"

**WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 6EOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.**

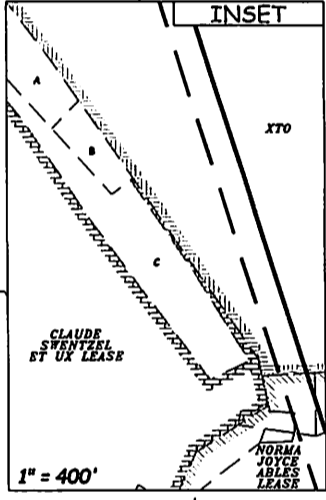
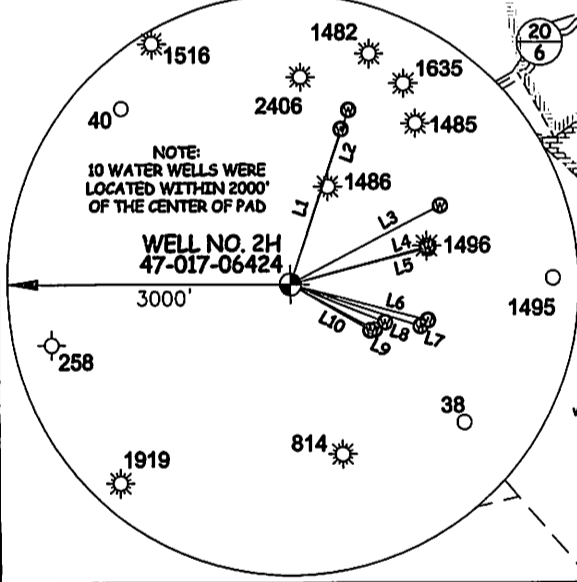
**(NAD) 83 (UTM) ZONE 17 COORDS:**  
**WELL 2H TOP HOLE INFORMATION:**  
 N: 4,348,482m E: 528,198m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,350,577m E: 527,168m

LINE	BEARING	DISTANCE
L1	N 17°19' E	1709.1'
L2	N 17°48' E	1923.8'
L3	N 61°29' E	1747.1'
L4	N 73°40' E	1469.1'
L5	N 74°25' E	1458.9'
L6	S 76°26' E	1440.3'
L7	S 73°18' E	1382.3'
L8	S 69°28' E	1019.9'
L9	S 62°54' E	950.2'
L10	S 61°17' E	914.6'

**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.



JOB # **13-092WA**  
 DRAWING # **ZIMKAUNITP2HAD**  
 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 **1,198' ORIGINAL - 1,141' AS DRILLED** WATERSHED **HEADWATERS MIDDLE ISLAND CREEK**  
 QUADRANGLE **SMITHBURG 7.5'** DISTRICT **GRANT** COUNTY **060 DRUG 2015**

SURFACE OWNER **DEAN R. PENNINGTON ET AL** ACREAGE **62.63 ACRES +/-**  
 OIL & GAS ROYALTY OWNER **CHARLES MCINTYRE ET AL; MARGARET STOUT; WM HEFLIN; HARRY ZIMKA ET UX; NORMA JOYCE ABLES; XTO; CLYDE FRASHURE JR. ET UX** LEASE ACREAGE **70 ACRES+; 70.43 ACRES+; 120.5 ACRES+; 47 ACRES+; 21.63 ACRES+; 28 ACRES+; 101 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 **6,959' TVD 14,696' MD**

WELL OPERATOR **ANTERO RESOURCES CORPORATION** DESIGNATED AGENT **DIANNA STAMPER**  
 ADDRESS **1615 WYNKOOP STREET** ADDRESS **5400 D BIG TYLER ROAD**  
**DENVER, CO 80202** **CHARLESTON, WV 25313**

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

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

**LEGEND**

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

DATE **06/12/15**  
 OPERATOR'S WELL # **ZIMKA UNIT #2H**  
 API WELL # **47 - 017 - 06424**  
 STATE COUNTY PERMIT

COUNTY NAME **060 DRUG 2015**  
 PERMIT # **AUG**