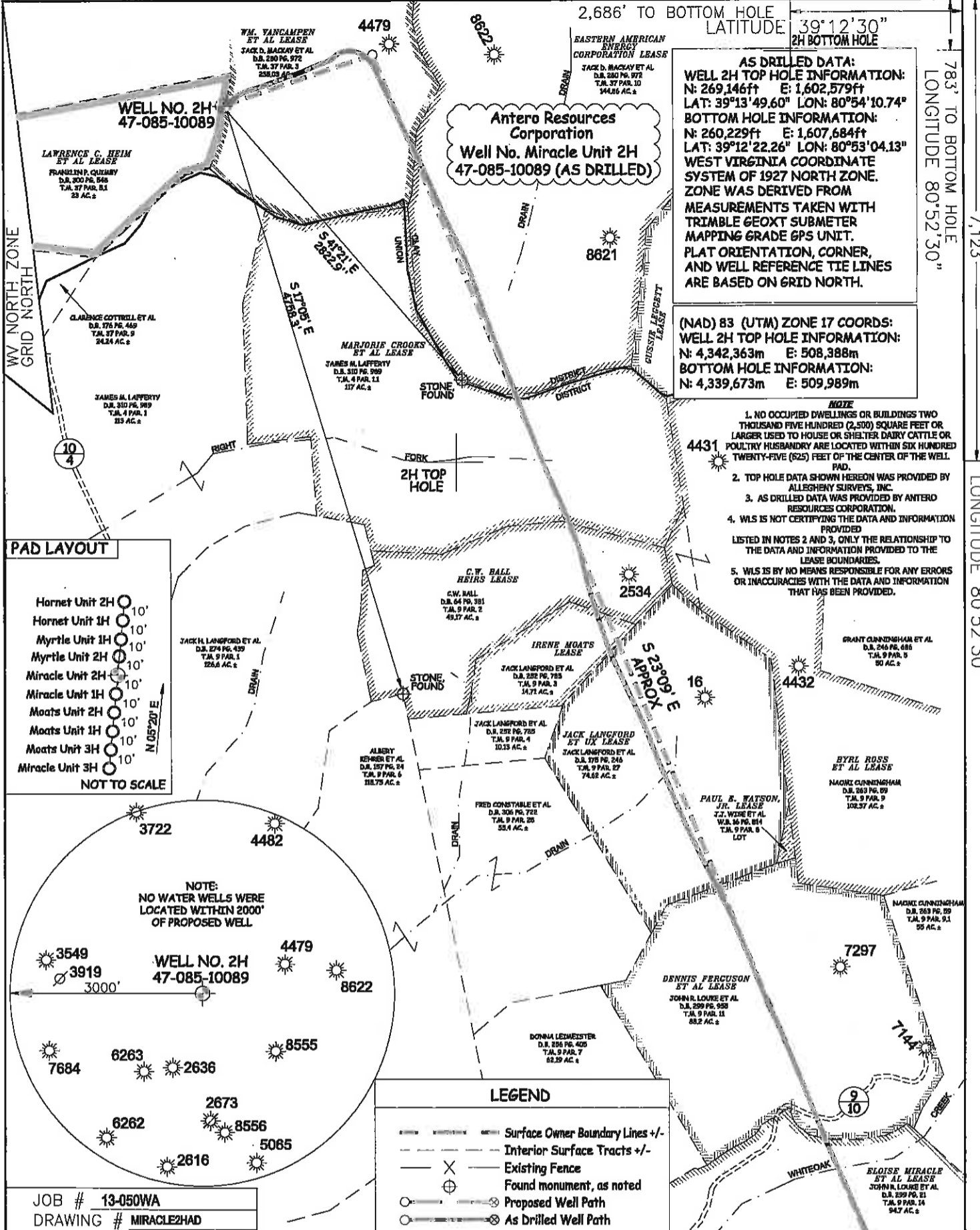


LATITUDE 39°15'00"

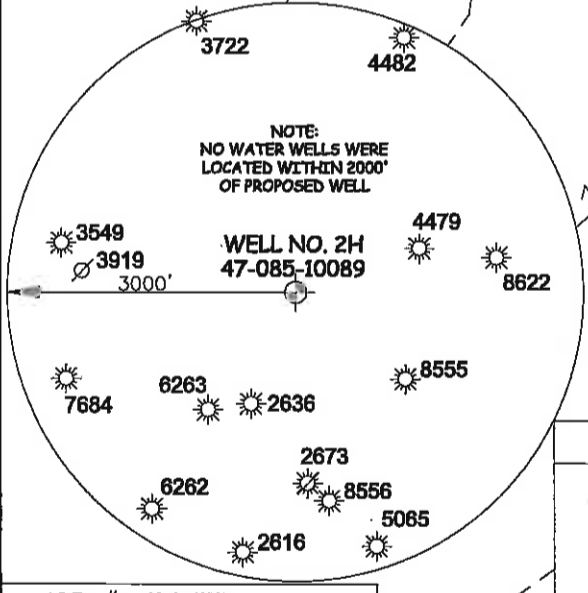
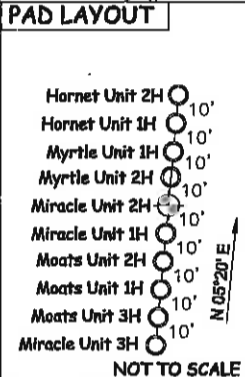
7,927'



AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
 N: 269,146ft E: 1,602,579ft
 LAT: 39°13'49.60" LON: 80°54'10.74"
BOTTOM HOLE INFORMATION:
 N: 260,229ft E: 1,607,684ft
 LAT: 39°12'22.26" LON: 80°53'04.13"
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: 4,342,363m E: 508,388m
BOTTOM HOLE INFORMATION:
 N: 4,339,673m E: 509,989m

- 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.



LEGEND

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

JOB # **13-050WA**
 DRAWING # **MIRACLE2HAD**
 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

DATE **2/24/2016**
 OPERATOR'S WELL # **MIRACLE UNIT #2H**
 API WELL # **47-085-10089**
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL ___ GAS **X** LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION **X** STORAGE ___ DEEP ___ SHALLOW **X**
 LOCATION: ELEVATION **1,216' ORIGINAL - 1,191' AS DRILLED** WATERSHED **NORTH FORK HUGHES RIVER**
 QUADRANGLE **PULLMAN 7.5** DISTRICT **CLAY (TH) UNION (BH)** COUNTY **RITCHIE**
 SURFACE OWNER **FRANKLIN P. QUMBY** ACREAGE **23 ACRES +/-**
 OIL & GAS ROYALTY OWNER **LAWRENCE C. HEIM ET AL; WM. YAN CAMPEN ET AL; EASTERN AMERICAN ENERGY CORP.; MARJORIE CROOKS ET AL; C.W. BALL HEIRS; IRENE MOATS; JACK LANGFORD ET UX; DENNIS FERGUSON ET AL; ELOISE MIRACLE ET AL** LEASE ACREAGE **53 AC±; 312 AC±; 145 AC±; 117 AC±; 49.27 AC±; 14.71 AC±; 74 AC±; 88 AC±; 116 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 **6,841' TVD 16,940' MD**
 WELL OPERATOR **ANTERO RESOURCES CORP.** DESIGNATED AGENT **DIANNA STAMPER**
 ADDRESS **1815 WYNKOOP STREET** ADDRESS **5400 D BIG TYLER ROAD**
DENVER, CO 80202 **CHARLESTON, WV 25313**

COUNTY NAME PERMIT