

LATITUDE 39°12'30"

6,890'

LATITUDE 39°10'00"

LONGITUDE 80°52'30"

11,555' TO BOTTOM HOLE

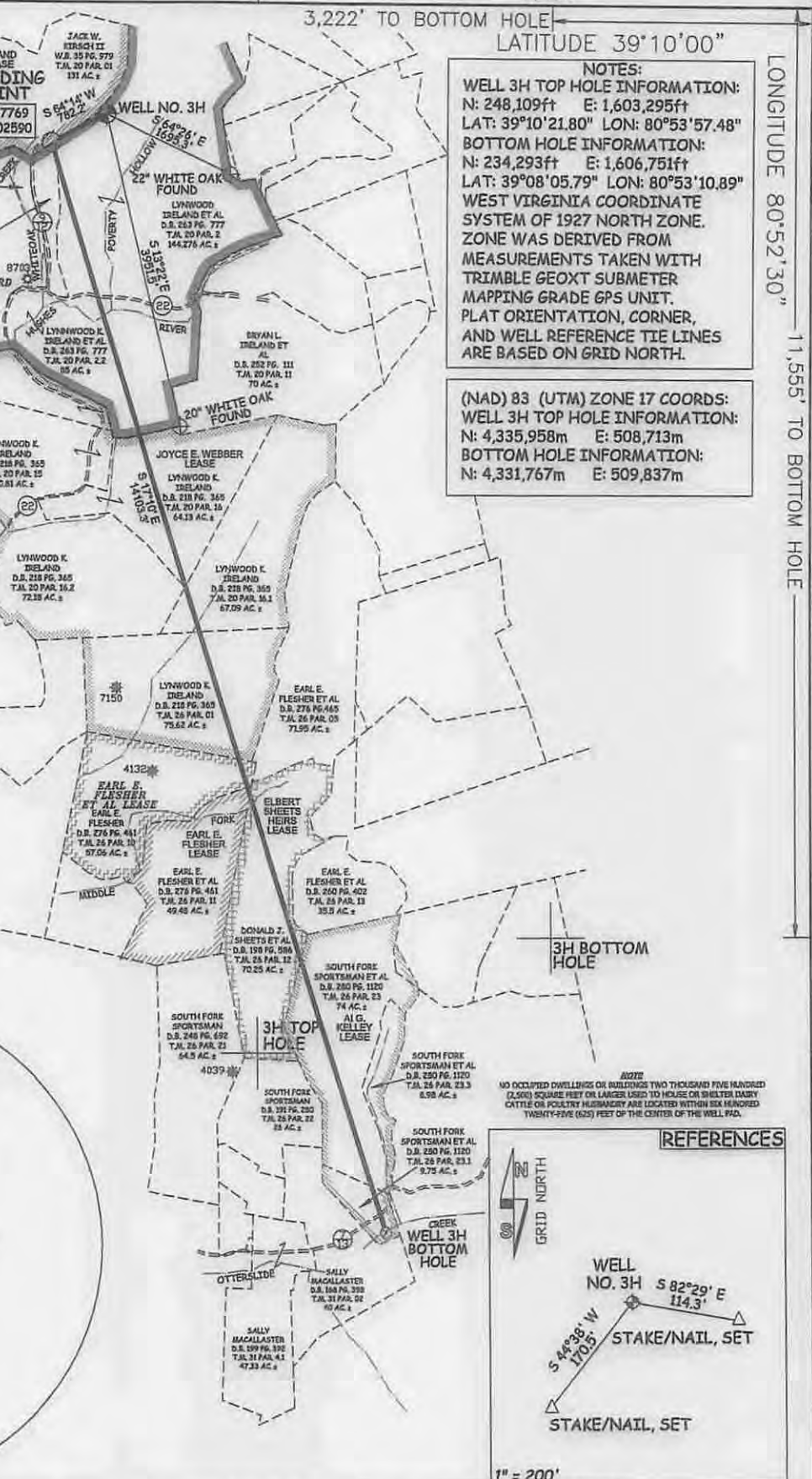
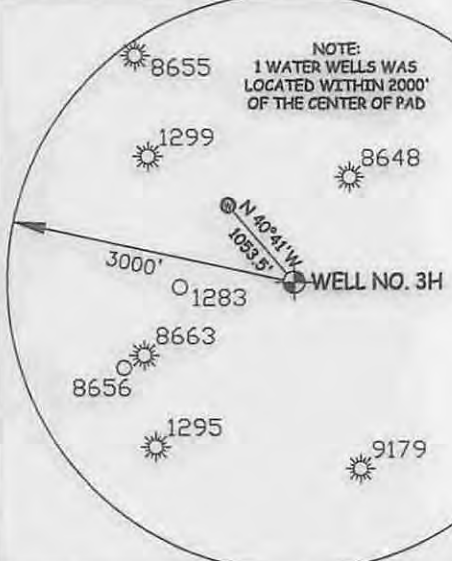
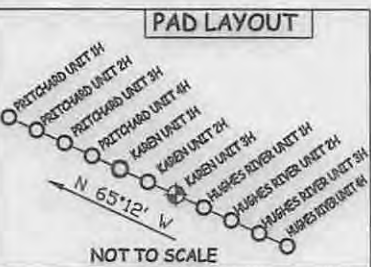
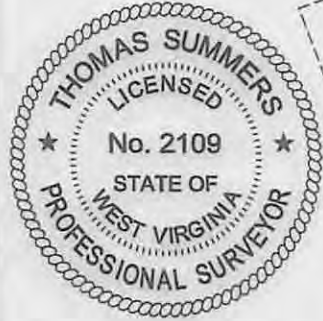
12,971'

LONGITUDE 80°52'30"

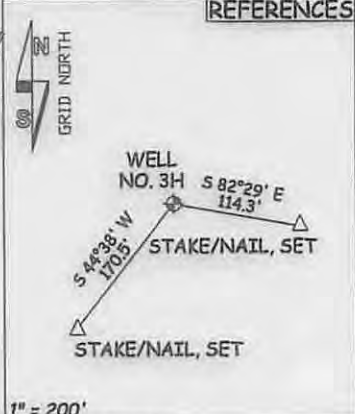
Antero Resources Corporation
Well No. Karen Unit 3H

NOTES:
 WELL 3H TOP HOLE INFORMATION:
 N: 248,109ft E: 1,603,295ft
 LAT: 39°10'21.80" LON: 80°53'57.48"
 BOTTOM HOLE INFORMATION:
 N: 234,293ft E: 1,606,751ft
 LAT: 39°08'05.79" LON: 80°53'10.89"
 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 3H TOP HOLE INFORMATION:
 N: 4,335,958m E: 508,713m
 BOTTOM HOLE INFORMATION:
 N: 4,331,767m E: 509,837m



NOTE: NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR BLENDED DAIRY CATTLE OR POULTRY IN ANY QUANTITY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



JOB # 14-127WA
 DRAWING # KAREN3HR
 SCALE 1" = 2000'
 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

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

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 - x - Existing Fence
- ⊕ Found monument, as noted

THOMAS SUMMERS P.S. 2109
 DATE 08/12/15
 OPERATOR'S WELL# KAREN UNIT #3H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ORIGINAL GROUND ELEV. 957' PROPOSED ELEV. 947' WATERSHED SOUTH FORK HUGHES RIVER
 QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE
 SURFACE OWNER LYWOOD IRELAND ET AL ACREAGE 144.276 ACRES +/-
 OIL & GAS ROYALTY OWNER BELLE PRITCHARD; W. P. IRELAND ET UX; LEASE ACREAGE 415 AC +/-
 JOYCE E. WEBBER; EARL E. FLESHER ET AL; EARL E. FLESHER; 445.67 AC +/-; 57 AC +/-; 82 AC +/-
 ELBERT SHEETS HEIRS; AI G. KELLEY 70.25 AC +/-; 100 AC +/-

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
 (SPECIFY) 3H PLUG PERMIT MOD PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 21,000' 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

9/18/2015

COUNTY NAME PERMIT