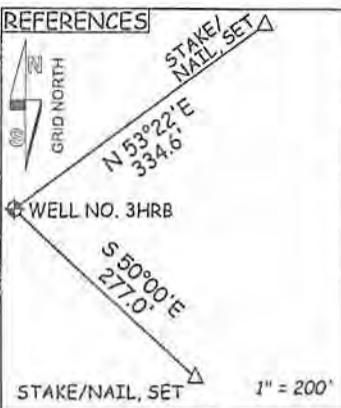
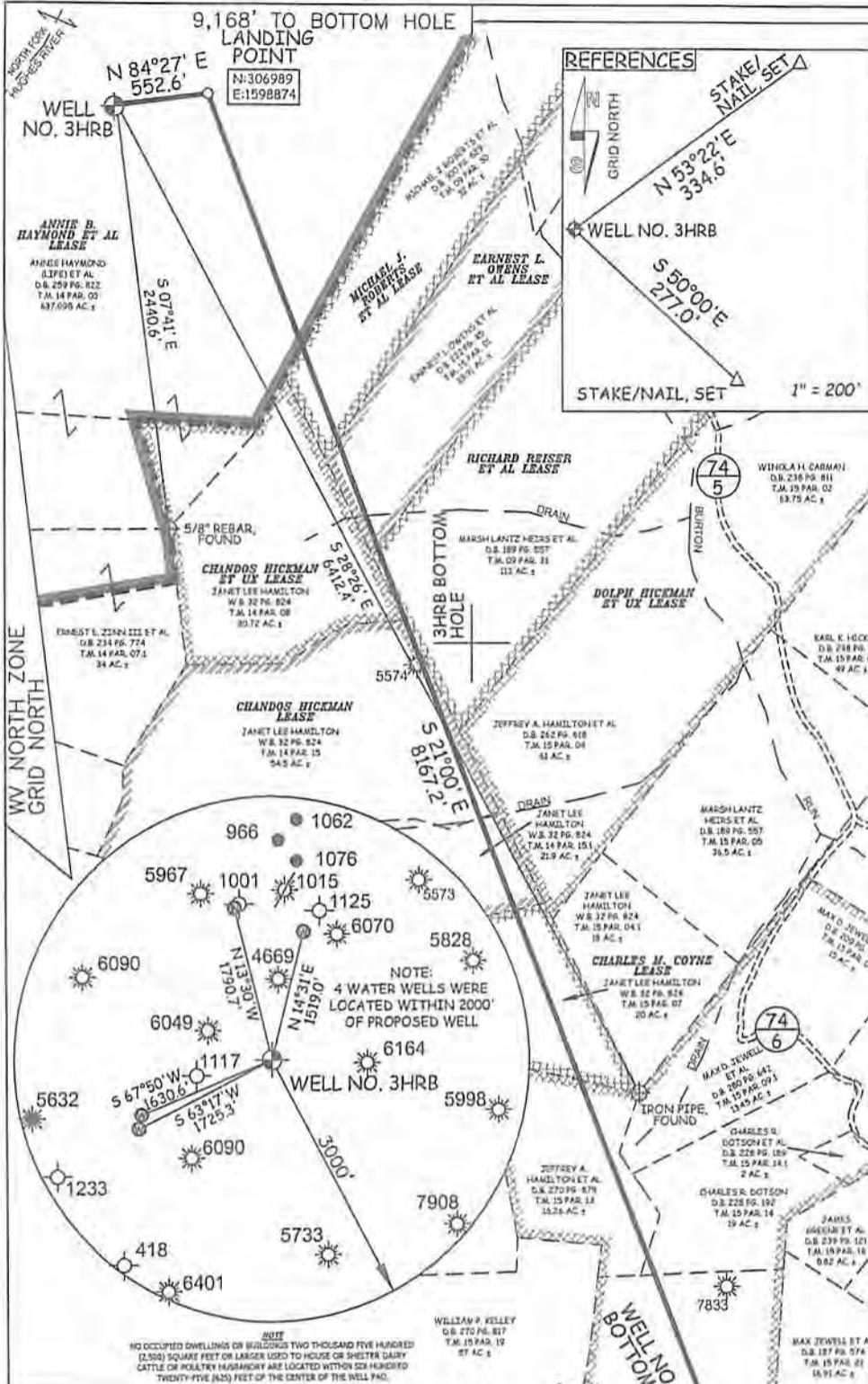


LATITUDE 39°20'00"  
Antero Resources Corporation  
Well No. Cairo-Anna Unit 3HRB

NOTES:  
WELL 3HRB TOP HOLE INFORMATION:  
N: 306,936ft E: 1,598,324ft  
LAT: 39°20'02.41" LON: 80°55'12.40"  
BOTTOM HOLE INFORMATION:  
N: 299,364ft E: 1,601,801ft  
LAT: 39°18'48.13" LON: 80°54'26.65"  
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 3HRB TOP HOLE INFORMATION:  
N: 4,353,854m E: 506,900m  
BOTTOM HOLE INFORMATION:  
N: 4,351,565m E: 507,997m



LEGEND

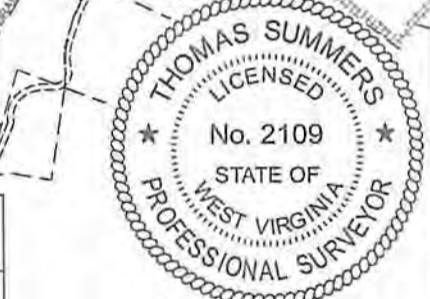
- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Existing Fence
- Found monument, as noted

JOB # 12-127WA  
DRAWING # CAIRO-ANNA3HRB  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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  
266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415



THOMAS SUMMERS P.S. 2109

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 968' WATERSHED NORTH FORK HUGHES RIVER  
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE  
SURFACE OWNER ANNIE B. HAYMOND, ET AL ACREAGE 637.095 ACRES +/-  
OIL & GAS ROYALTY OWNER ANNIE B. HAYMOND, ET AL; MICHAEL J. ROBERTS ET AL; EARNEST L. OWENS ET AL; LEASE ACREAGE 700 ACRES+; 34.638 ACRES+; 34.638 ACRES+;  
RICHARD REISER ET AL; CHANDOS HICKMAN ET UX; CHANDOS HICKMAN, CHARLES M. COYNE; CHARLES U. COSTILOW ET UX 113 ACRES+; 35 ACRES+; 75.5 ACRES+; 18.5 ACRES+; 200 ACRES+  
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X  
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) Permit Modification - Name & BHL PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 15,200' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1625 17TH STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313

DATE 04/29/14  
OPERATOR'S WELL# CAIRO-ANNA UNIT #3HRB  
API WELL # 47 - 085 - 10015  
STATE COUNTY PERMIT  
COUNTY NAME PERMIT

Replacement bore hole (3HRB) drilled under same API as well # 3H, which is ~10ft away

05/09/2014