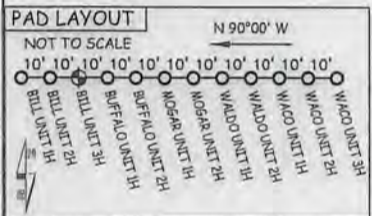
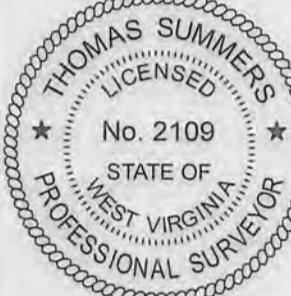
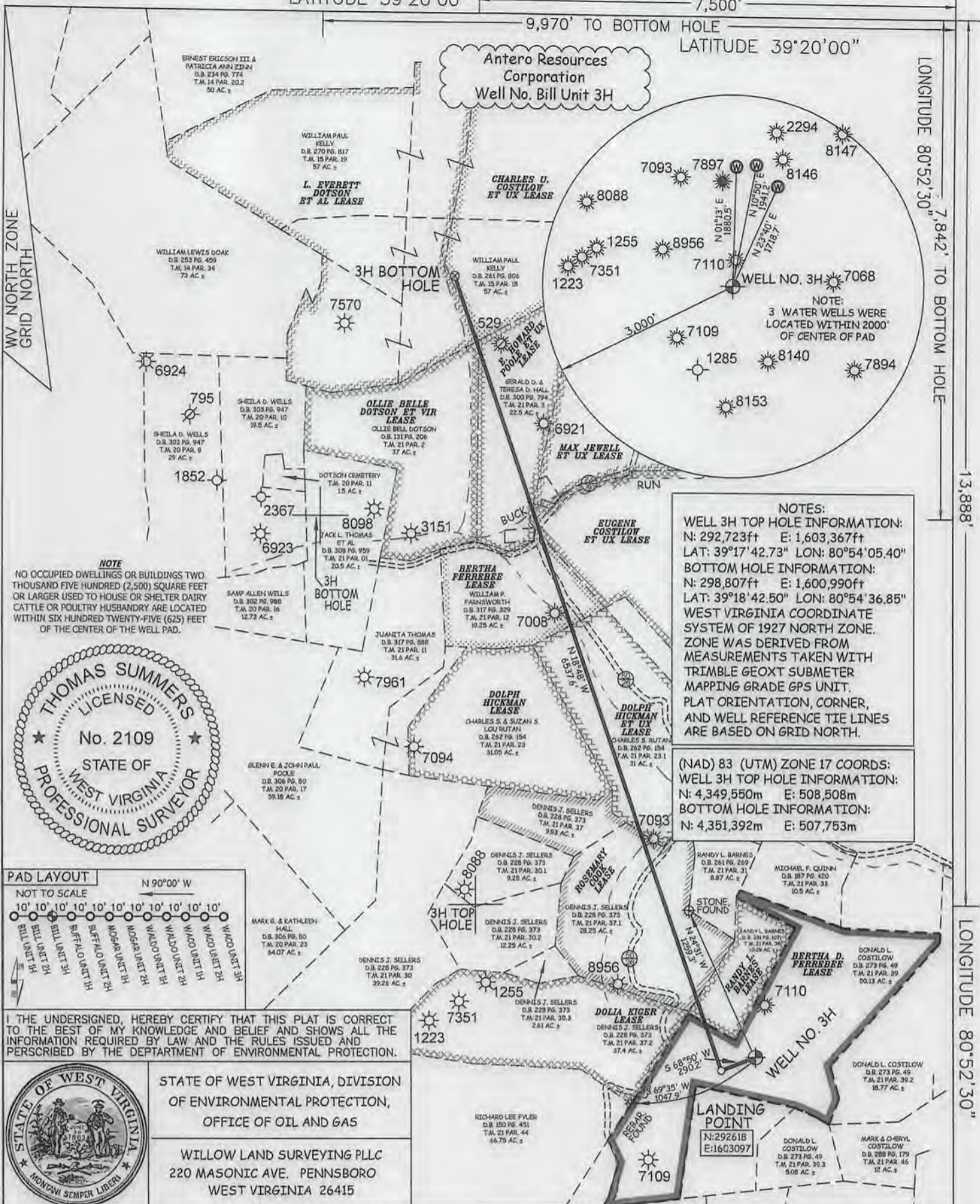


LATITUDE 39°20'00" 7,500' 9,970' TO BOTTOM HOLE LATITUDE 39°20'00"

LONGITUDE 80°52'30" 7,842' TO BOTTOM HOLE 13,888' LONGITUDE 80°52'30"

Antero Resources Corporation Well No. Bill Unit 3H



**NOTES:**  
 WELL 3H TOP HOLE INFORMATION:  
 N: 292,723ft E: 1,603,367ft  
 LAT: 39°17'42.73" LON: 80°54'05.40"  
 BOTTOM HOLE INFORMATION:  
 N: 298,807ft E: 1,600,990ft  
 LAT: 39°18'42.50" LON: 80°54'36.85"  
 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: 4,349,550m E: 508,508m  
 BOTTOM HOLE INFORMATION:  
 N: 4,351,392m E: 507,753m

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.

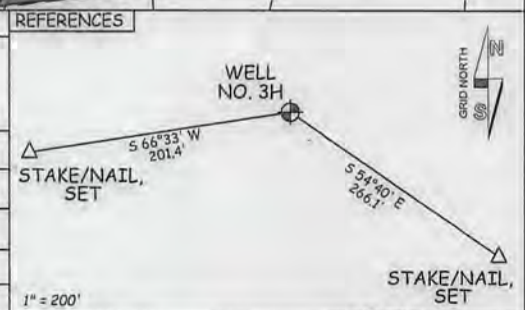


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 15-029WA  
 DRAWING # BILL3HR1  
 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

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

THOMAS SUMMERS P.S. 2109  
 DATE 07/15/15  
 OPERATOR'S WELL# BILL UNIT 3H

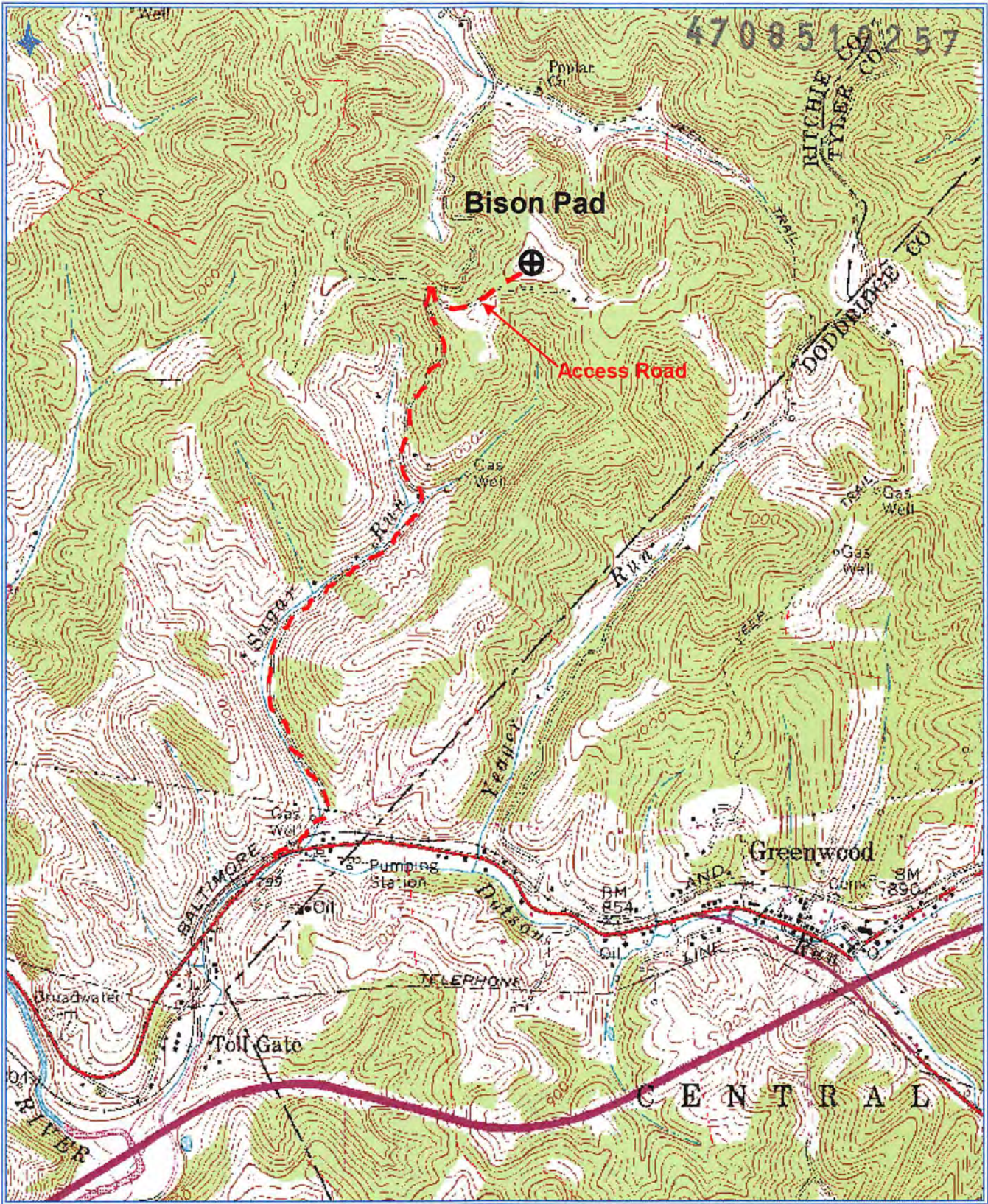


WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 085 - 10257  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT  
 LOCATION: ELEVATION 1,238' - ORIGINAL 1,221' - PROPOSED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE  
 SURFACE OWNER DONALD L. COSTILOW ACREAGE 50.13 ACRES +/-  
 OIL & GAS ROYALTY OWNER BERTHA D. FERREBEE; RANDY L. BARNES; ROSEMARY COOK; LEASE ACREAGE 67 AC.±; 10.05 AC.±; 39 AC.±;  
 DOLPH HICKMAN ET UX; BERTHA FERREBEE; EUGENE COSTILOW ET UX; E. HOWARD POOLE ET UX; 31 AC.±; 20 AC.±; 54 AC.±; 23 AC.±;  
 OLLIE BELLE DOTSON ET VIR; L. EVERETT DOTSON ET AL; CHARLES U. COSTILOW ET UX; 37 AC.±; 75 AC.±; 200 AC.±

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) PLUG & ABANDON CLEAN OUT & REPLUG  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,900' TVD 13,900' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

10/30/2015

COUNTY NAME PERMIT



Received

SEP 28 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

**Antero Resources Corporation**  
Appalachian Basin  
Bill Unit 3H  
Ritchie County

Quadrangle: Pennsboro  
Watershed: Hughes River  
District: Clay  
Date: 7-20-2015

10/30/2015