

LATITUDE 39°20'00"

7,480'

8,755' TO BOTTOM HOLE

LATITUDE 39°20'00"

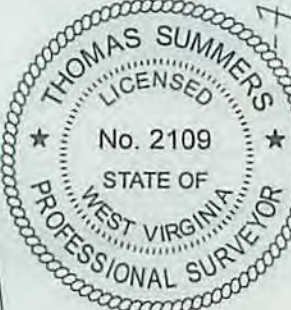
LONGITUDE 80°52'30"

7,321' TO BOTTOM HOLE

13,888'

LONGITUDE 80°52'30"

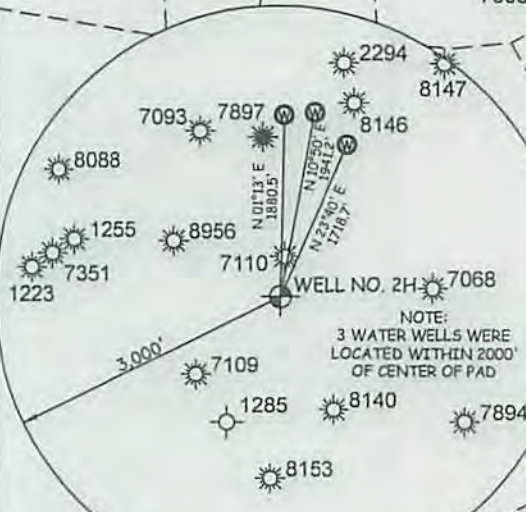
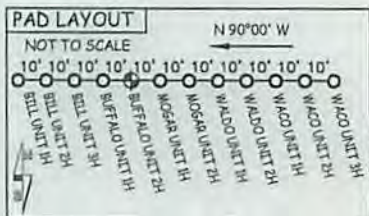
Antero Resources Corporation  
Well No. Buffalo Unit 2H



NOTE  
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.

NOTES:  
WELL 2H TOP HOLE INFORMATION:  
N: 292,723ft E: 1,603,387ft  
LAT: 39°17'42.74" LON: 80°54'05.15"  
BOTTOM HOLE INFORMATION:  
N: 299,309ft E: 1,602,213ft  
LAT: 39°18'47.65" LON: 80°54'21.39"  
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: 4,349,550m E: 508,514m  
BOTTOM HOLE INFORMATION:  
N: 4,351,551m E: 508,123m



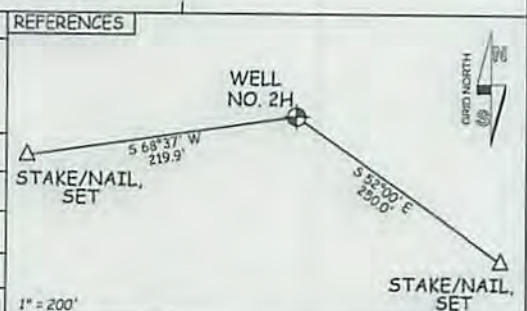
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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 # 15-030WA  
DRAWING # BUFFALO2HR1  
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*  
THOMAS SUMMERS P.S. 2109  
DATE 07/15/15  
OPERATOR'S WELL# BUFFALO UNIT #2H



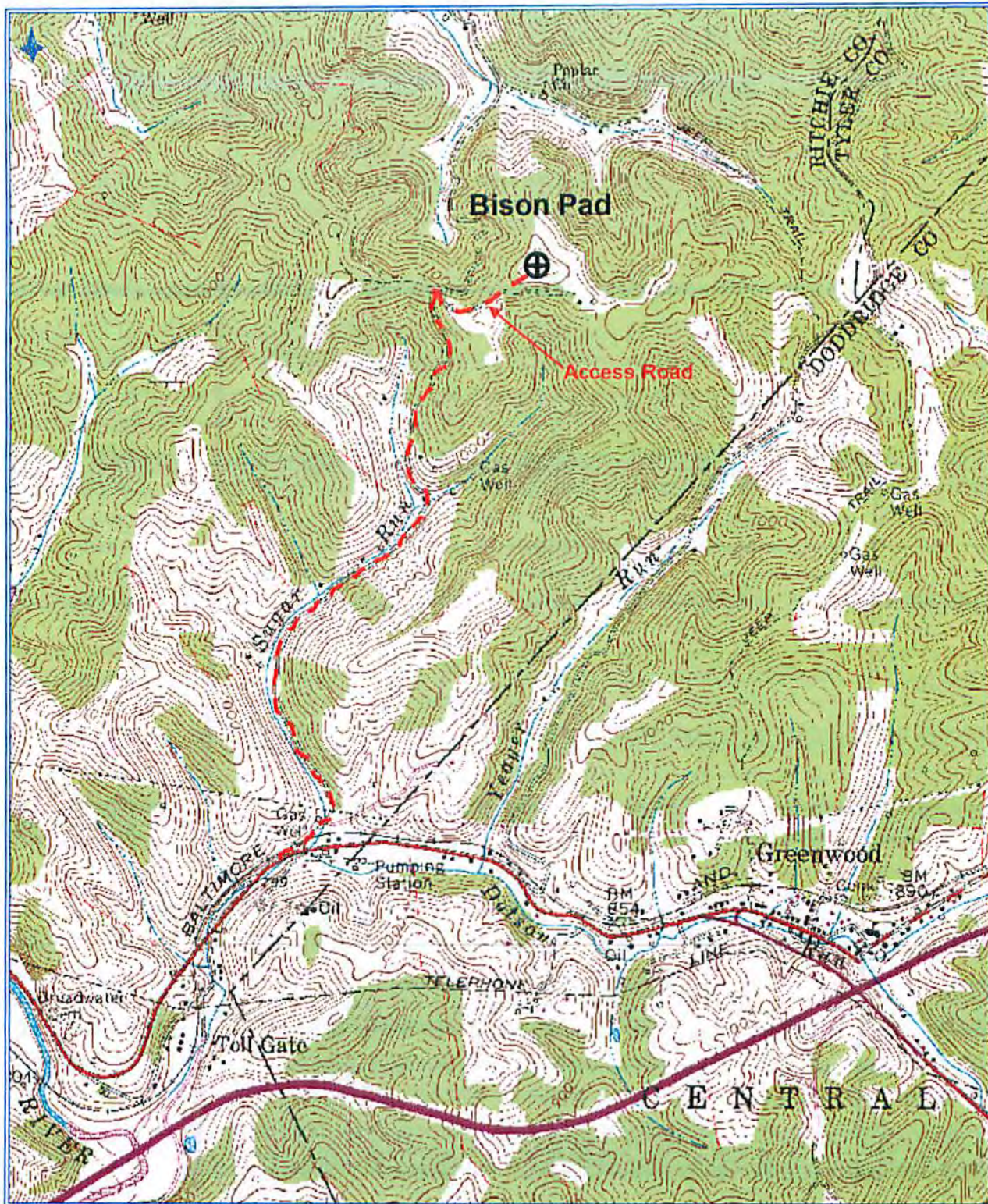
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 085 -10243  
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY  
LOCATION: ELEVATION 1,238' - ORIGINAL 1,221' - PROPOSED WATERSHED NORTH FORK HUGHES RIVER  
QUADRANGLE PENNSBORO 7.5 DISTRICT CLAY COUNTY RITCHIE  
SURFACE OWNER DONALD L. COSTILOW ACREAGE 50.13 ACRES +/-  
OIL & GAS ROYALTY OWNER BERTHA D. FERREBEE; DAVID W. DOTSON; MICHAEL F. QUINN; DELORES D. BUTCHER; DAVID W. DOTSON; LEASE ACREAGE 67 AC +/- 21,417 AC +/- 10.5 AC +/- 2.86 AC +/- 10.65 AC +/-  
KARL K. HICKMAN ET UX; EUGENE COSTILOW ET UX; F. M. FERREBEE ET AL; MAX D. JEWELL ET UX 14.52 AC +/- 54 AC +/- 56 AC +/- 36 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  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

9/18/2015

COUNTY NAME

PERMIT





**Antero Resources Corporation**  
 Appalachian Basin  
 Buffalo Unit 1H & 2H  
 Ritchie County

RECEIVED  
 Office of Oil and Gas  
 AUG 14 2015  
 WV Department of Environment and Natural Resources

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

9/18/2015