

LATITUDE 39°20'00"

7,490'

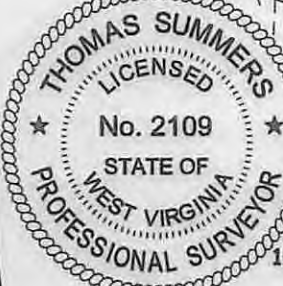
LATITUDE 39°20'00"

LONGITUDE 80°52'30"

7,586' TO BOTTOM HOLE

LONGITUDE 80°52'30"

Antero Resources Corporation
Well No. Buffalo Unit 1H

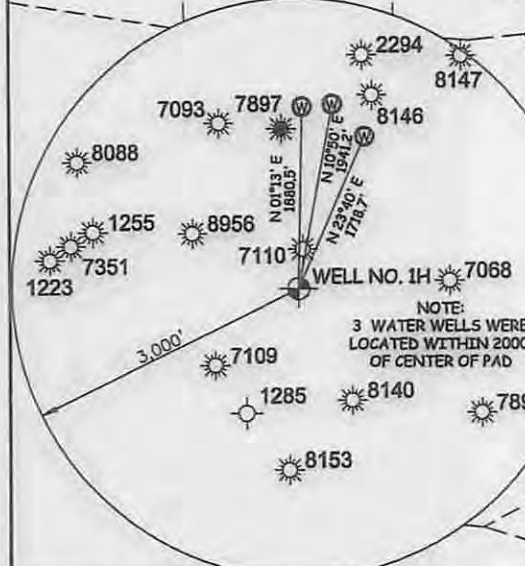
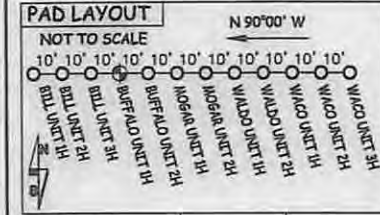


NOTE:
NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 292,723ft E: 1,603,377ft
LAT: 39°17'42.74" LON: 80°54'05.27"
BOTTOM HOLE INFORMATION:
N: 299,053ft E: 1,601,603ft
LAT: 39°18'45.02" LON: 80°54'29.10"
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 1H TOP HOLE INFORMATION:
N: 4,349,550m E: 508,511m
BOTTOM HOLE INFORMATION:
N: 4,351,470m E: 507,939m

WV NORTH ZONE GRID NORTH



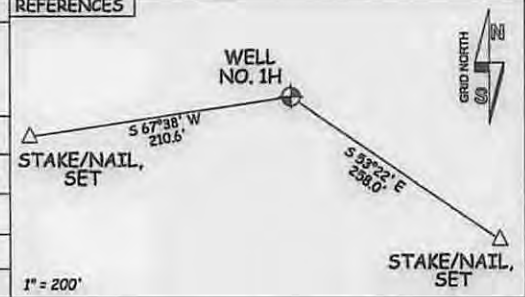
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



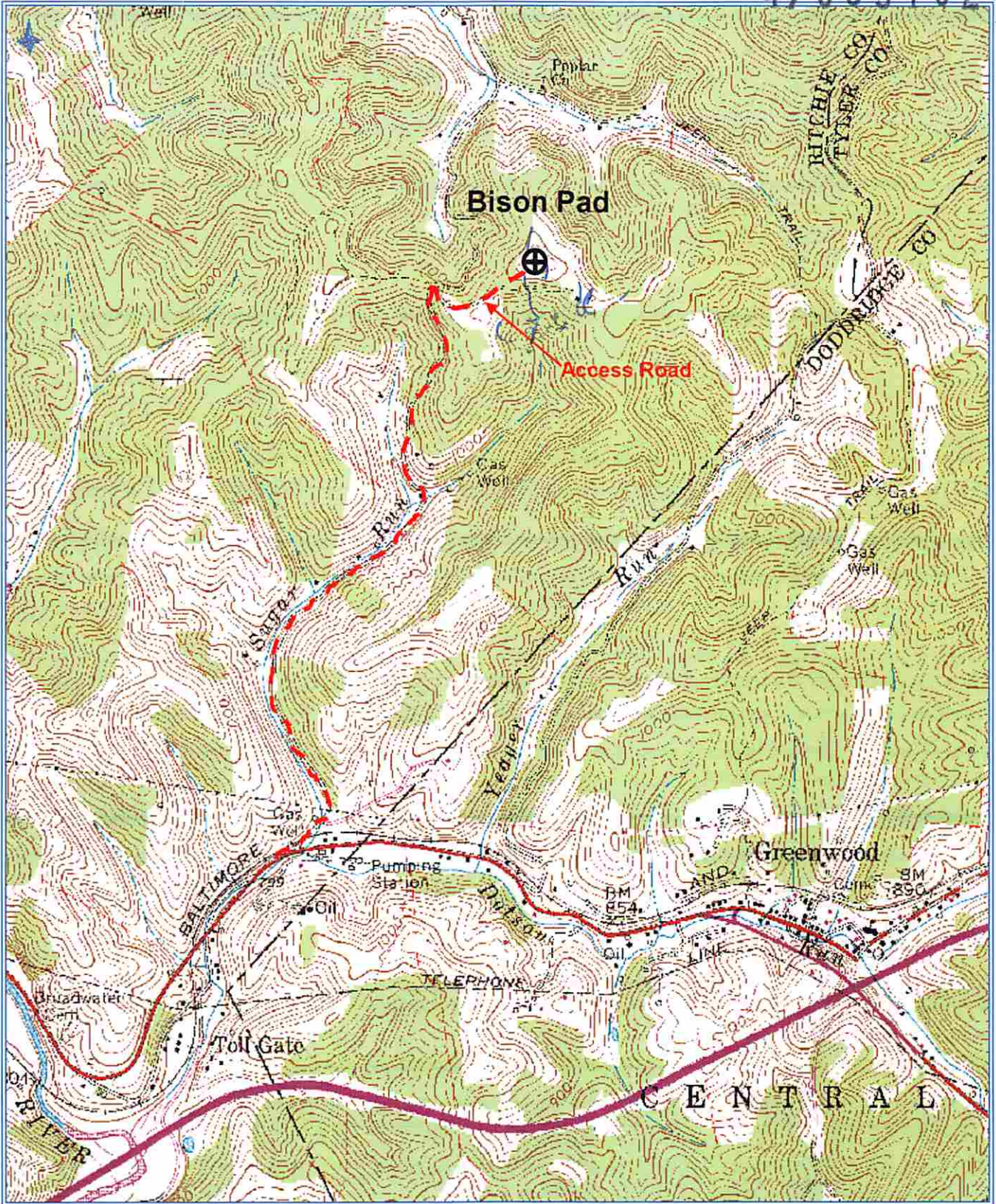
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 15-030WA
DRAWING # BUFFALO1HR1
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 08/18/15
OPERATOR'S WELL# BUFFALO UNIT#1H



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 085 - 10249
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT
LOCATION: ELEVATION 1,238' - ORIGINAL 1,221' - PROPOSED WATERSHED NORTH FORK HUGHES RIVER 19/02/2015
QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
SURFACE OWNER DONALD L. COSTILOW ACREAGE 50.13 ACRES +/-
OIL & GAS ROYALTY OWNER: BERTHA D. FERREBE; RANDY L. BARNES; MICHAEL F. QUINN; NEW FREEDOM ENERGY, LLC; JOANN ROBINSON; LEASE ACREAGE 67 AC.; 10.05 AC.; 10.5 AC.; 7.76 AC.; 2.05 C.; 10.65 AC.; WINOLA H. CARMAN; DOLPH HICKMAN ET UX; KARL K. HICKMAN; EUGENE COSTILOW ET UX; MAX D. JEWELL ET UX; E. HOWARD POOLE ET UX; CHARLES U. COSTILOW ET UX 0.206 AC.; 31 AC.; 5.75 AC.; 54 AC.; 36 AC.; 23 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



*Done
8-26-15*

Antero Resources Corporation
 Appalachian Basin
 Buffalo Unit 1H
 Ritchie County

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

10/02/2015