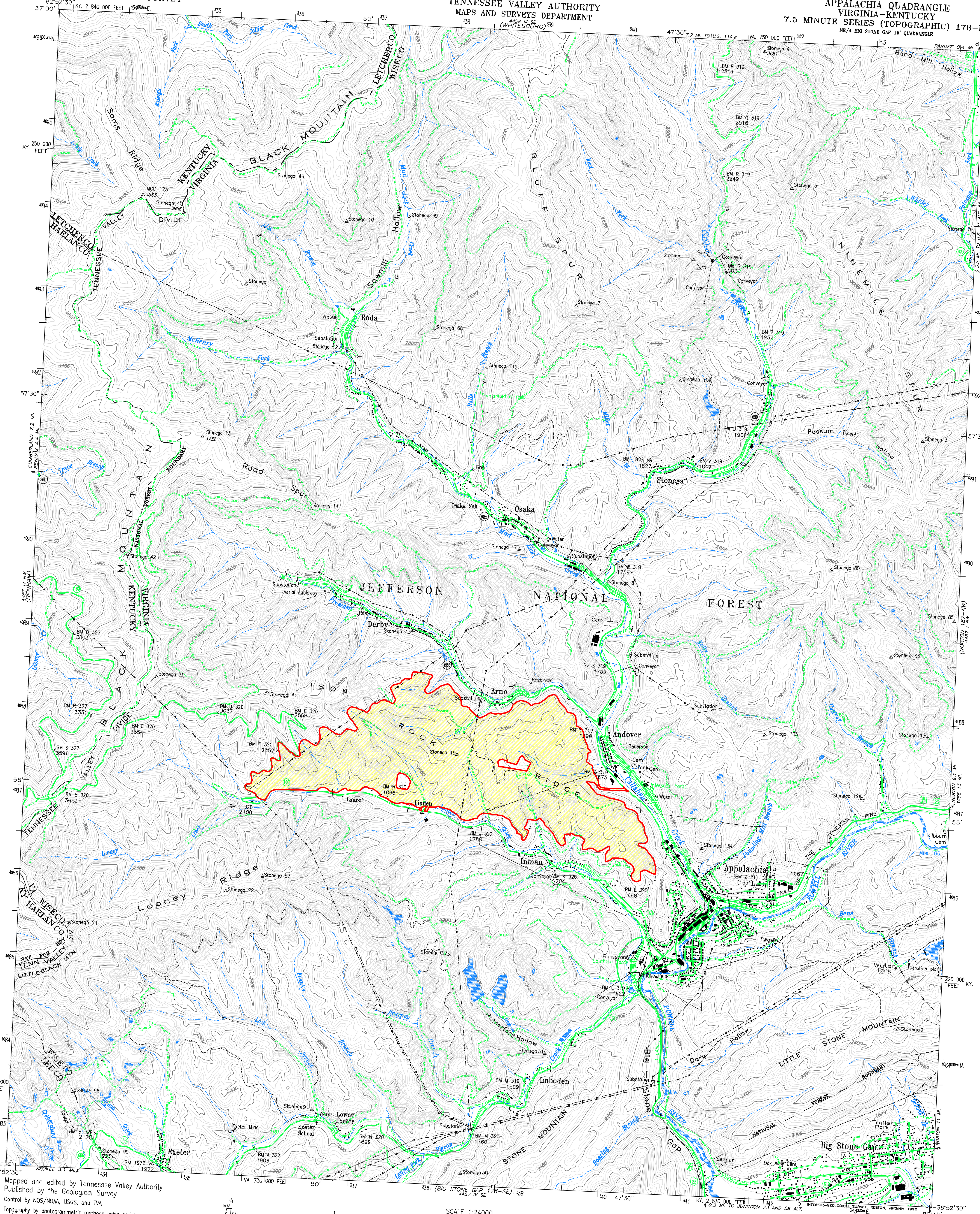
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
TENNESSEE VALLEY AUTHORITY
MAPS AND SURVEYS DEPARTMENT

APPALACHIA QUADRANGLE
VIRGINIA–KENTUCKY
7.5 MINUTE SERIES (TOPOGRAPHIC) 178–NE
NE/4 BIG STONE GAP 15' QUADRANGLE



Mapped and edited by Tennessee Valley Authority
Published by the Geological Survey

Control by NOS/NOAA, USGS, and TVA

Topography by photogrammetric methods using aerial photographs taken 1953. Field examination by TVA, 1955

Polyconic projection. 1927 North American datum
10,000 foot grid based on Virginia (South) and Kentucky (South) rectangular coordinate systems
1000 meter Universal Transverse Mercator Grid ticks, Zone 17, shown in blue
To place on the predicted North American Datum 1983 move the projection lines 7 meters south and 11 meters west as shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

This map was vectorized from USGS Appalachia Quadrangle, Virginia–Kentucky, 7.5 Minute Series, by Eastham & Associates, 100 Cedar Street, Chesapeake, Ohio, 45619, (614) 867–8369.

UTM GRID AND 1991 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092
VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22093
KENTUCKY GEOLOGICAL SURVEY, LEXINGTON, KENTUCKY 40506
KENTUCKY DEPARTMENT OF COMMERCE, FRANKFORT, KENTUCKY 40601
AND U.S. TENNESSEE VALLEY AUTHORITY, CHATTANOOGA, TENN. 37402
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple and woodland compiled by the Geological Survey i cooperation with Commonwealth of Virginia agencies from areial photographs taken 1987 and other sources. This information not field checked. Contours not revised. Map edited 1991

ROAD CLASSIFICATION (TVA 178–NE)
Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U.S. Route
State Route

APPALACHIA, VA.–KY.
NE/4 BIG STONEGAP 15' QUADRANGLE
36082–H7–TF–024

1955
PHOTOREVISED 1991
DMA 4457 IV NE–SERIES V834

LEGEND

VDMLR PERMIT BOUNDARY

PROPOSED PERMIT AREA

D.R. ALLEN & ASSOCIATES, P.C.
Civil • Environmental • Mining
Abingdon, Virginia

WHITESBURG
BENHAM
APPALACHIA QUAD
NORTON
BIG STONE GAP

A & G COAL CORPORATION
ISON ROCK RIDGE SURFACE MINE
VDMLR PERMIT APPLICATION NO. 1003841
USACE PROJECT NO. NAO–2007–1351

LOCATION MAP

DESIGNED	LMD	DATE	04–03–07
DRAWN	ADB	SCALE	1"=2000'
CHECKED	DRA		

PROJECT NO.	FILE NAME	DRAWING NO.
07–316B1	LOCATION.DWG	1 OF 8