

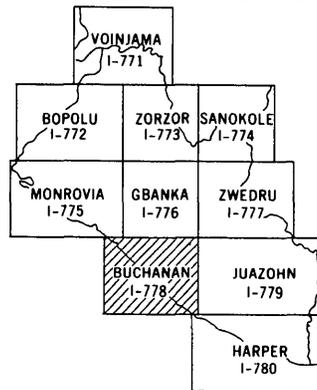
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Prepared by the
U.S. GEOLOGICAL SURVEY
and the
LIBERIAN GEOLOGICAL SURVEY
Under the joint sponsorship of the
GOVERNMENT OF LIBERIA
and the
AGENCY FOR INTERNATIONAL DEVELOPMENT
U.S. DEPARTMENT OF STATE

**GEOLOGIC MAP
OF THE BUCHANAN QUADRANGLE, LIBERIA**
By
Russel G. Tysdal

**FOLIO OF THE BUCHANAN QUADRANGLE, LIBERIA
MAP I-778-D**

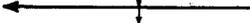
INDEX TO SHEETS OF THIS SERIES



PUBLISHED BY THE U.S. GEOLOGICAL SURVEY
RESTON, VA. 22092

1977

GEOLOGIC MAP SYMBOLS
COMMONLY USED ON MAPS OF THE UNITED STATES GEOLOGICAL SURVEY
(Special symbols are shown in¹ explanation)

-  Contact – Dashed where approximately located; short dashed where inferred; dotted where concealed
-  Contact – Showing dip; well exposed at triangle
-  Fault – Dashed where approximately located; short dashed where inferred; dotted where concealed
-  Fault, showing dip – Ball and bar on downthrown side
-  Normal fault – Hachured on downthrown side
-  Fault – Showing relative horizontal movement
-  Thrust fault – Sawteeth on upper plate
-  Anticline – Showing direction of plunge; dashed where approximately located; dotted where concealed
-  Asymmetric anticline – Short arrow indicates steeper limb
-  Overturned anticline – Showing direction of dip of limbs
-  Syncline – Showing direction of plunge; dashed where approximately located; dotted where concealed
-  Asymmetric syncline – Short arrow indicates steeper limb
-  Overturned syncline – Showing direction of dip of limbs
-  Monocline – Showing direction of plunge of axis
-  Minor anticline – Showing plunge of axis
-  Minor syncline – Showing plunge of axis

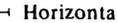
Strike and dip of beds – Ball indicates top of beds known from sedimentary structures

-  70° Inclined
-  ⊕ Horizontal
-  ⊥ Vertical
-  40° Overturned

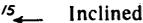
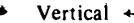
Strike and dip of foliation

-  20° Inclined
-  ⊥ Vertical
-  ⊥ Horizontal

Strike and dip of cleavage

-  15° Inclined
-  ⊥ Vertical
-  ⊥ Horizontal

Bearing and plunge of lineation

-  15° Inclined
-  ⊥ Vertical
-  ⊥ Horizontal

Strike and dip of joints

-  40° Inclined
-  ⊥ Vertical
-  ⊥ Horizontal

Note: planar symbols (strike and dip of beds, foliation or schistosity, and cleavage) may be combined with linear symbols to record data observed at same locality by superimposed symbols at point of observation. Coexisting planar symbols are shown intersecting at point of observation.

Shafts

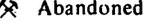
-  Vertical
-  Inclined

Adit, tunnel, or slope

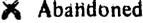
-  Accessible
-  Inaccessible

x Prospect

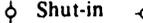
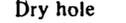
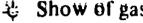
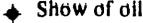
Quarry

-  Active
-  Abandoned

Gravel pit

-  Active
-  Abandoned

Oil well

-  Drilling
-  Shut-in
-  Dry hole abandoned
-  Gas
-  Show of gas
-  Oil
-  Show of oil