

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

**RECONNAISSANCE MAP OF POTENTIAL VOLCANIC HAZARDS
FROM COTOPAXI VOLCANO, ECUADOR
MAPA DE RECONOCIMIENTO DE RIESGOS VOLCANICOS POTENCIALES
DEL VOLCAN COTOPAXI, ECUADOR**

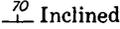
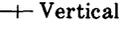
By C. Dan Miller, Donal R. Mullineaux and Minard L. Hall

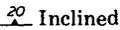
MISCELLANEOUS INVESTIGATIONS SERIES
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GEOLOGIC MAP SYMBOLS
COMMONLY USED ON MAPS OF THE UNITED STATES GEOLOGICAL SURVEY
 (Special symbols are shown in explanation)

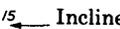
-  Contact—Dashed where approximately located; short dashed where inferred; dotted where concealed
-  Contact—Showing dip; well exposed at triangle
-  Fault—Dashed where approximately located; short dashed where inferred; dotted where concealed
-  Fault, showing dip—Ball and bar on downthrown side
-  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

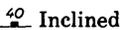
Strike and dip of beds—Ball indicates top of beds known from sedimentary structures

-  ⁷⁰ Inclined ⊕ Horizontal
 Vertical  ⁴⁰ Overturned

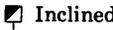
- Strike and dip of foliation
 ²⁰ Inclined  Vertical  Horizontal

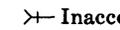
- Strike and dip of cleavage
 ¹⁵ Inclined  Vertical  Horizontal

- Bearing and plunge of lineation
 ¹⁵ Inclined  Vertical  Horizontal

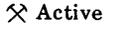
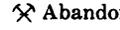
- Strike and dip of joints
 ⁴⁰ Inclined  Vertical  Horizontal

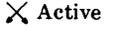
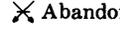
Note: Planar symbols (strike and dip of beds, foliation or schistosity, and cleavage) may be combined with linear symbols to record data observed at same locality by superimposed symbols at point of observation. Coexisting planar symbols are shown intersecting at point of observation.

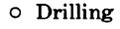
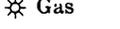
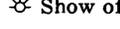
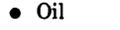
- Shafts
 Vertical  Inclined

- Adit, tunnel, or slope
 Accessible  Inaccessible

× Prospect

- Quarry
 Active  Abandoned

- Gravel pit
 Active  Abandoned

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