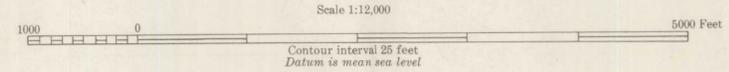


Topography from map prepared by the U. S. Geological Survey from aerial photographs, using Kesh plotter. Aerial photographs taken in 1949.
 INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.
 Geology by F. F. Barnes, T. G. Payne, D. M. Hopkins, F. M. Byers, Jr., and Ralph Tuck. Surveyed in 1934, 1935, 1944, 1945, and 1947-52.

GEOLOGIC MAP OF EASTERN PART OF WISHBONE HILL DISTRICT, MATANUSKA COAL FIELD, ALASKA



E X P L A N A T I O N

SEDIMENTARY ROCKS

QUATERNARY

Recent

- Qal Alluvium
- Qt Terrace gravel
- Qs Slide rock
- Talus and landslide debris, mainly conglomerate blocks

Pleistocene

- Qm Morainal and outwash deposits
- Includes slide rock along south base of Wishbone Hill

TERTIARY

Eocene or younger

- Tt Tasadaka formation
- Poorly cemented boulders and cobbles of dominantly granitic rocks

UNCONFORMITY

Paleocene or Eocene

- Tw Wishbone formation
- Firmly cemented pebbles of fine-grained rocks in sandy matrix. Includes many lenticular beds of sandstone, siltstone, and some claystone
- Tc Chickaloon formation
- Sandstone, siltstone, claystone, and coal

TERTIARY

Upper Cretaceous

- Km Matanuska formation
- Shale, sandstone, and a few thin beds of conglomerate

IGNEOUS ROCKS

- Ti Basaltic dike

Post-Eocene

- Coal bed at bedrock surface
- Dashed where inferred; dotted where concealed by slide rock
- Contact, approximately located

FAULTS

- Fault, showing relative movement
- Dashed where inferred; dotted where concealed by slide rock
- U, upthrown side; D, downthrown side
- Thrust fault
- Position uncertain; T, upper plate

SYNCLINES

- Syncline
- Showing trace of axial plane and direction of plunge of axis.
- Dashed where approximately located
- Anticline
- Showing trace of axial plane and direction of plunge of axis.
- Dashed where approximately located; dotted where concealed by overlying formation

Other Symbols

- Strike and dip of beds
- Mine portal
- Mine dump
- Inclined U. S. Bureau of Mines diamond-drill holes
- Vertical U. S. Bureau of Mines diamond-drill holes
- Boundary of coal-lease unit
- Surface coal locality
- Number corresponds to that in text and on plate 5
- Toe of landslide

