

EXPLANATION

SEDIMENTARY AND METAMORPHIC ROCKS

Qal

Alluvial deposits
Unconsolidated clay, sand, and gravel

Qt

Terrace deposits
Largely unconsolidated terrace
deposits of clay, sand, and gravel

Tm

Murree Formation
Mostly gray sandstone with some
reddish-brown shale

Tk

Kohat Formation
Cream colored micritic limestone

Ts

Sedimentary rocks, undivided
Shale, sandstone, and limestone of all or
parts of the Hangu Formation, Lock-
hart Limestone, and Patala Forma-
tion

Jck

Khyber Limestone*
Massive, gray, unfossiliferous limestone

PDa

Ali Masjid Formation*
White buff and quartzite with some
calcareous sandstone

COs

Shagai Limestone*
Limestone and dolomite; Ordovician to Devonian and
perhaps Carboniferous in age

CO

Biotite-quartz schist and related metasedimentary
rocks

Is

COIs

Slate

Mostly greenish-gray slate, with some limestone inter-
beds is; includes Silurian strata but age may extend
from Ordovician to Carboniferous

COII

Limestone and slate
Interbedded limestone and slate, probably Ordovician
to Carboniferous in age

PLUTONIC ROCKS

m

Mafic intrusive rocks
Dikes and sills largely dolerite, probably late
Tertiary in age

wg

Warsak Granite-Gneiss
Partly porphyritic, biotite-agerite-afreedsomite
gneiss

mi

Migmatite
Coarse-grained mixed rock composed of lenses and sheets
of silicic intrusive rock in slates and schists of the
Landi Kotai Slate

*Stratigraphic names are formal names used in pub-
lished reports and whose status with respect to the
Stratigraphic code of Pakistan is currently under
examination

QUATERNARY

TERTIARY

CARBON-
IFEROUS
AN(?) TO JUR-
PERMIAN
ASSIC(?)

ORDOVICIAN(?) TO CARBONIFEROUS(?)

Contact

U

D

Fault

Dashed where approximately located; dotted where
concealed; U, upthrown side; D, downthrown side

UPPER PLATE(?)

Thrust fault

Dashed where approximately located; dotted where
concealed; T, upper plate

Anticline

Showing crestline and direction of plunge
dashed where approximately located

Syncline

Showing troughline and direction of plunge

Inclined

Horizontal

Strike and dip of beds

Approximate strike and direction of dip of beds or
foliation obtained from aerial photographs

Strike and dip of bed and bearing

and plunge of lineation

Bearing and plunge of lineation

RECONNAISSANCE GEOLOGIC MAP OF THE KHYBER PASS, PAKISTAN

SCALE 1:100 000

1 0 1 2 3 4 5 6 7 8 9 10 MILES

1 0 1 2 3 4 5 6 7 8 9 10 KILOMETERS

PREPARED AS PART OF THE MINERAL EXPLORATION AND DEVELOPMENT PROGRAM
SPONSORED BY THE GOVERNMENT OF PAKISTAN AND THE UNITED STATES
AGENCY FOR INTERNATIONAL DEVELOPMENT

U. S. Geological Survey
OPEN FILE REPORT 75-272
This report is preliminary and has
not been edited or reviewed for
conformity with Geological Survey
standards or nomenclature.

Districts having the same name as their headquarters are not
otherwise named. The spelling of names taken from best
available Survey of Pakistan sources, populated places clas-
sified from Ministry of Home Affairs 1961 census tables.
Boundaries shown on this map are not necessarily authoritative.