

GOVERNMENT OF PAKISTAN  
MINISTRY OF INDUSTRIES AND NATURAL RESOURCES

GEOLOGICAL SURVEY OF PAKISTAN



Geology by Karl W. Stauffer, mapped in 1963-64 mainly by photogeologic interpretation. Data are insufficient for complete geologic solution in certain areas.

## 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  
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AGENCY FOR INTERNATIONAL DEVELOPMENT

U. S. Geological Survey  
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This report is preliminary and has  
not been edited or reviewed for  
conformity with Geological Survey  
standards or nomenclature.

Districts having the same names 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.

### EXPLANATION

#### SEDIMENTARY AND METAMORPHIC ROCKS

Qal	Alluvial deposits
Unconsolidated clay, sand, and gravel	
Qt	Terrace deposits Large, unconsolidated terrace deposits of clay, sand, and gravel
Tm	Murree Formation Mostly gray sandstone with some reddish-brown shale
TK	Kohat Formation Cream colored nummulitic 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 tuff and quartzite with some calcareous sandstone
CO	Shagai Limestone* Limestone and dolomite; Ordovician to Devonian and perhaps Carboniferous in age
COI	Biotite-quartz schist and related metasedimentary rocks
IS COIs	Slate Mostly greenish-gray slate, with some limestone inter- beds; includes Silurian strata but age may extend from Ordovician to Carboniferous
COL	Limestone and slate Interbedded limestone and slate, probably Ordovician to Carboniferous in age
M	PLUTONIC ROCKS Mafic intrusive rocks Dikes and sills largely dolerite, probably late Tertiary in age
WG	Warsak Granite-Gneiss Partly porphyritic, biotite-schist-argillite-gneiss
MI	Migmatite Coarse-grained mixed rock composed of lenses and sheets of silicic intrusive rock in slates and schists of the Landi Kotal 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