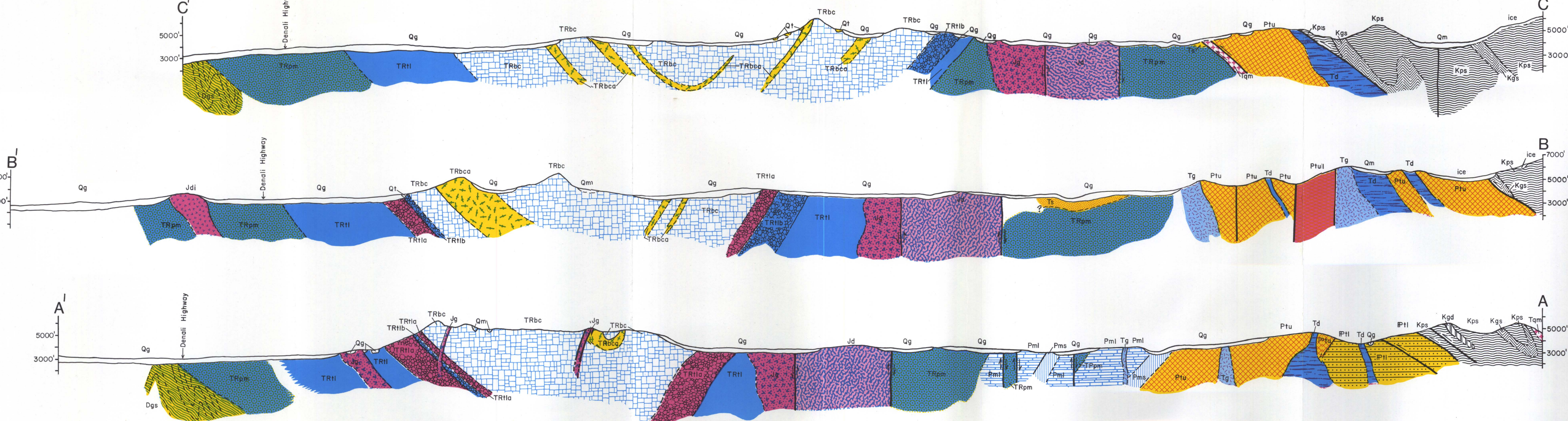


EXPLANATION

Quaternary	Qaf Alluvial Fans Poorly sorted gravel deposits.	Qop Alluvial Plains Bedded river deposits.	Qr Rock Glaciers Lobate ice-covered talus deposits.	Ql Landslides Generally lobate, unsorted deposits.
	Qm Marginal Deposits Lateral, medial, and terminal moraines near active glaciers.	Qg Ground Moraine Unconsolidated glacial deposits in areas of subdued topography.	Qo Outwash Deposits Stream gravels and sand near the terminus of active glaciers.	Qs Talus Unconsolidated rock debris.
Tertiary	Ts Sandstone Consolidated, well-bedded deposits, commonly coal bearing.	Tc Conglomerate Consolidated deposits, commonly interbedded with sandstone.	Tb Olivine Basalt	Tg Gabbro
	Tdp Ductile Porphyry Dikes Contains distinctive hornblende needles.	Tqd Quartz Monzonite Graded from granodiorite.	Tq Ductile Cretaceous, commonly serpentinized.	
Cretaceous	Kgs Gneiss Metasomatic in the Maclurean metamorphic belt. Locally calc-magnesian gneiss in high-grade part of the belt.	Kp Phyllite Metamorphosed siliceous sediments in the Maclurean metamorphic belt. Locally pelitic schist in the high-grade part of the belt.	Kgd Gneiss Metamorphosed intrusive rocks within the Maclurean metamorphic belt.	
Jurassic	Jd Fish Lake Complex All: Diorite, Transitional to granodiorite. Jd: Gabbro, Transitional to diorite.			
Triassic	TRbc Boulder Creek Volcanics TRbc: Gray to green basalts recrystallized locally to greenschist. TRbc: Amphibolitic basalt.	TRh Tangle Lakes Formation TRh: Siliceous, light-green to gray tuffs and agglomerate interbedded with tuffaceous sediments and black shale. TRh: Pillow andesite. TRh: Pillow basalt.		
Permian	PRm Limestone Blue-gray to buff bioclastic limestone.	PRs Shale Black to gray shale or argillite, commonly interbedded with thin limestone.		
Pre-Pennsylvanian	PRu Upper Tethys Complex PRu: Interbedded green to light-green porphyritic and calcareous siliceous sediments interlayered with andesite to basaltic flows. PRu: Local bioclastic limestone.	PRh Richardson Highway Pyroclastics Basaltic volcanic agglomerates and tuffaceous rocks. Commonly porphyritic. Some may be intrusive.	PRl Lower Tethys Complex PRl: Andesite to basaltic flows and interlayered graywacke and tuffaceous sandstone. PRl: Local limestone.	PRg Gneiss and Amphibolite Metasomatic flows and mafic intrusives north of the Duell Highway.

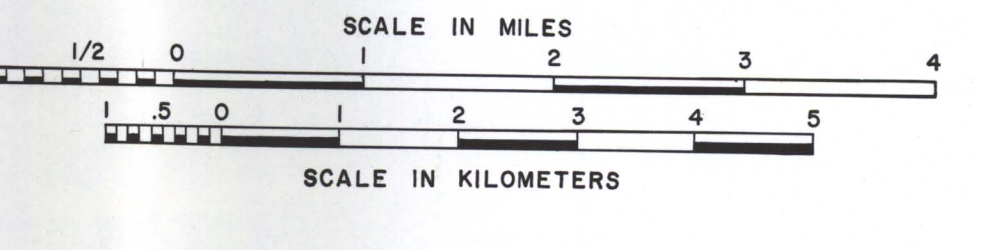
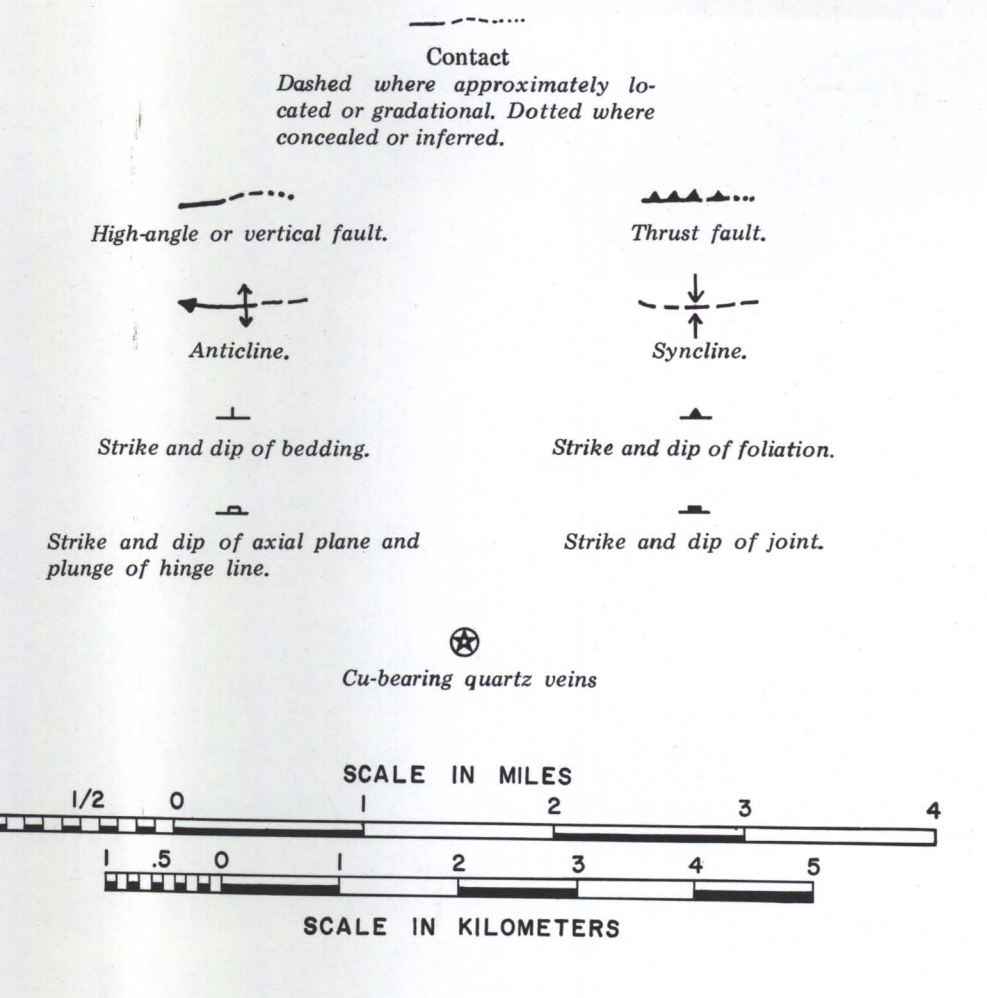
Base from U.S. Geological Survey, 1969: Mt. Hayes A-4, A-5, B-4, and B-5 quadrangles, Alaska

STRUCTURE SECTIONS



Geology by James H. Stout assisted by J. B. Brady, J. Collender, J. E. Quirk, G. Gaylor and R. J. Beltrame

SYMBOLS



GEOLOGIC MAP OF THE EUREKA CREEK AREA, EAST-CENTRAL ALASKA RANGE

By James H. Stout

MESOZOIC
PALEOZOIC