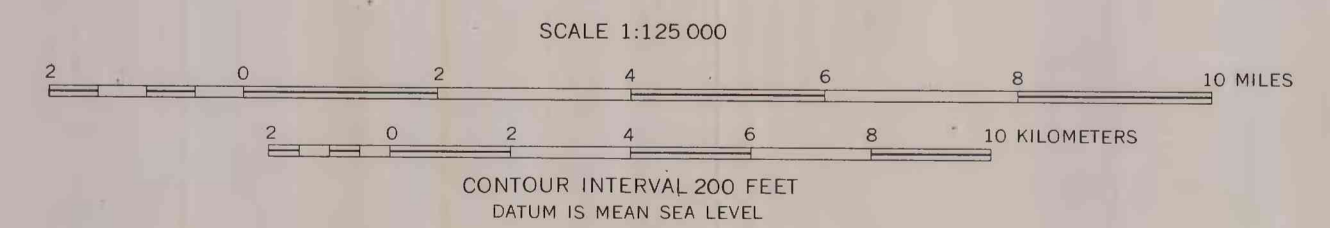


EXPLANATION

UNCONSOLIDATED DEPOSITS		
Qac	Qca	Qsw
Active flood plain	Colluvium	Swamp deposits
Qab	Qm	Qgr
Unmodified moraine	Abandoned flood plain	Rock glaciers
Qny	Qgn	Qaf
Young moraine	High-level alluvium	Alluvial fans
Qmo		
Old moraine		
SEDIMENTARY ROCKS		
Ts		
Tertiary sediments		
Pz		
Paleozoic or Mesozoic sediments		
IGNEOUS ROCKS		
gr		
Granitic intrusive rocks		
me		
Mafic extrusive rocks		
ma		
Mafic and ultramafic intrusive rocks		
METAMORPHIC ROCKS		
pc		
Precambrian (possibly Paleozoic) gneissic rocks		
pcs		
Precambrian (possibly Paleozoic) schist and related rocks		
SYMBOLS		
Contact (All contacts are approximately located)	Faults (Direction of movement indicated if known; bars on upthrown or overthrust side; dotted where crosscut)	Pipeline Route (Approximately located; based on information available prior to March 1971)

PRINCIPAL SOURCES OF INFORMATION
 Pelt, T. L., and Taylor, L. W., 1960, U.S. Dept. Army, Engineer Intelligence Study 264; Pelt, T. L., and Holmes, G. W., 1964, U.S. Geol. Survey Misc. Geol. Inv. Map I-394; Weber, F. R., 1970, Unpublished field compilations; Ferrans, O. J., Jr., 1960, Unpublished field compilations.
 Note: Glaciers and lakes can be distinguished from geologic units by the absence of geologic symbols.

Base from U. S. Geological Survey 1:250,000 series, 1955



Bedrock units shaded.

PRELIMINARY ENGINEERING GEOLOGIC MAPS OF THE PROPOSED TRANS-ALASKA PIPELINE ROUTE, MT. HAYES QUADRANGLE
 Compiled by Florence R. Weber 1971

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