

69° 30' R. 12 E. 100 000 FEET 149° R. 14 E. R. 15 E. 148° 30'



EXPLANATION

UNCONSOLIDATED DEPOSITS

HOLOCENE	Qac	Active flood plain	Qaf	Alluvial fans	Qc	Colluvium
	Qey	Young alluvial terraces	Qla	Landslides	Qca	Fine-grained alluvium and eolian sand
	Qmy	Young moraine	Qco	Old alluvial terraces		
PLEISTOCENE			Qmo	Old moraine		

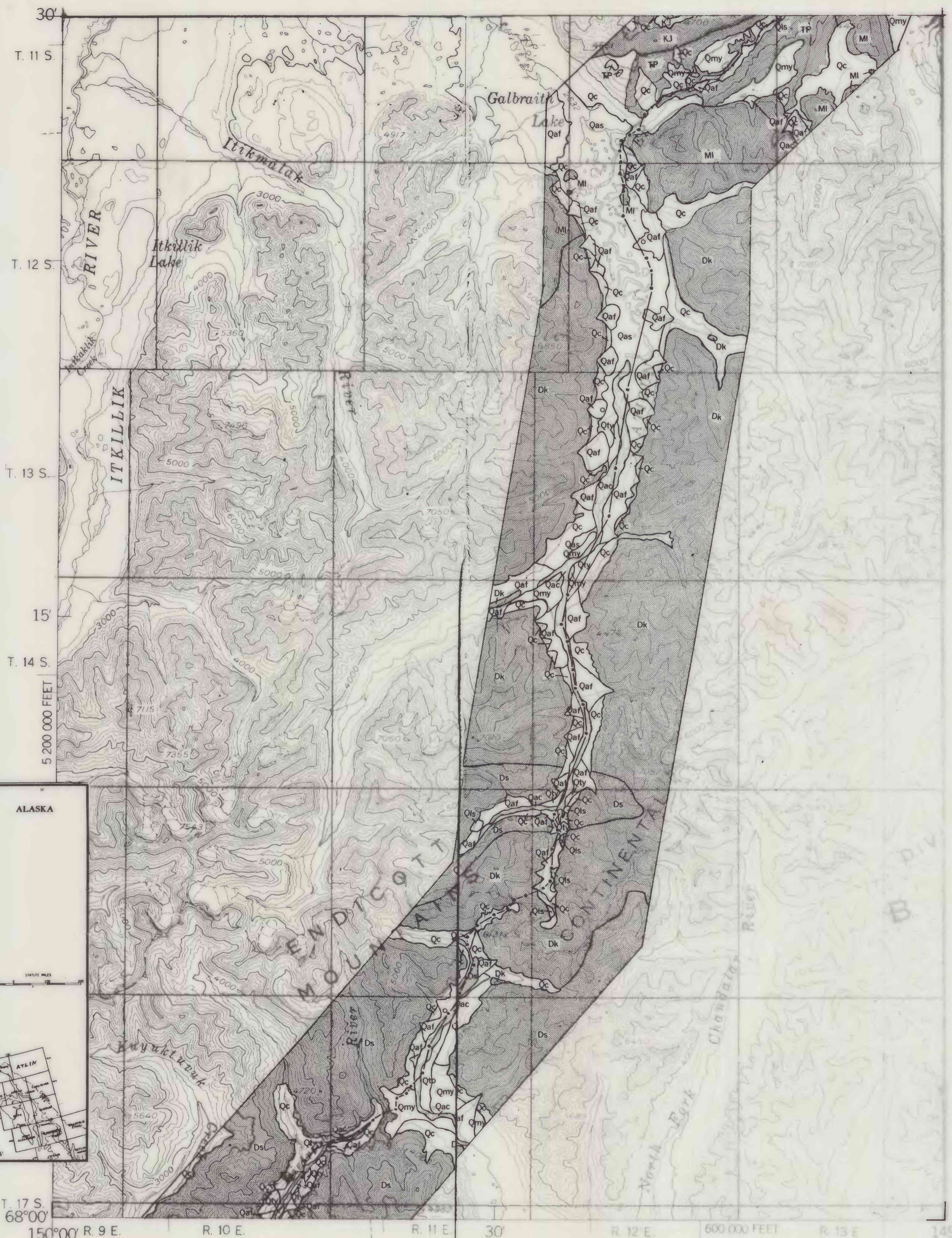
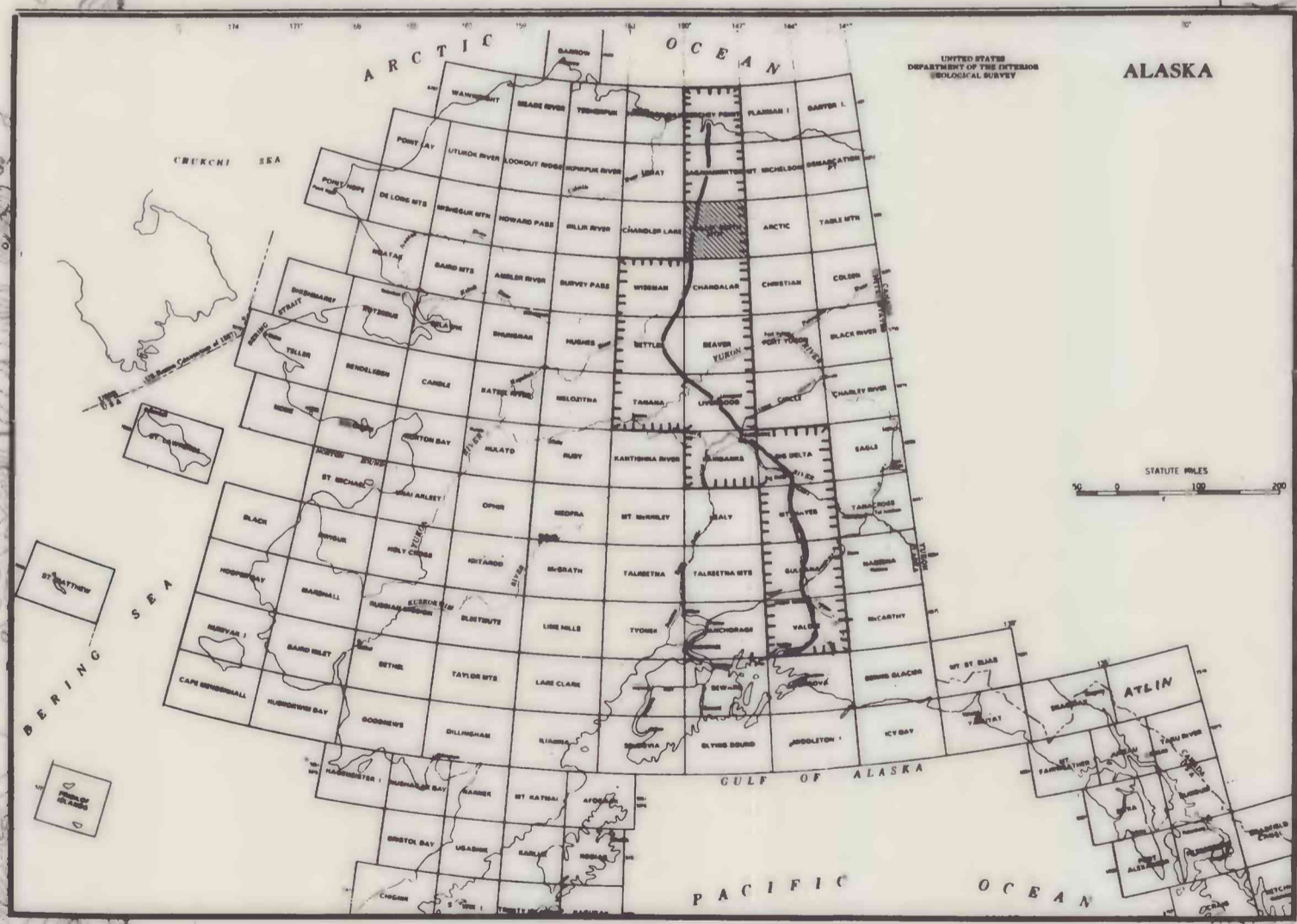
SEDIMENTARY ROCKS

Ksc	Crataceous sandstone and conglomerate	Kj	Crataceous and Jurassic shale, sandstone, and conglomerate		CONTACT (Locally gradational and approximately located)
Pa	Triassic and Permian shale, siltstone, sandstone, and limestone	Ms	Mississippi limestone, dolomite, chert, and shale		PINGO (ice-cored hillocks)
Dk	Devonian conglomerate	Ds	Devonian slate and sandstone		PIPELINE ROUTE (Approximately located; based on information available prior to March 1971)

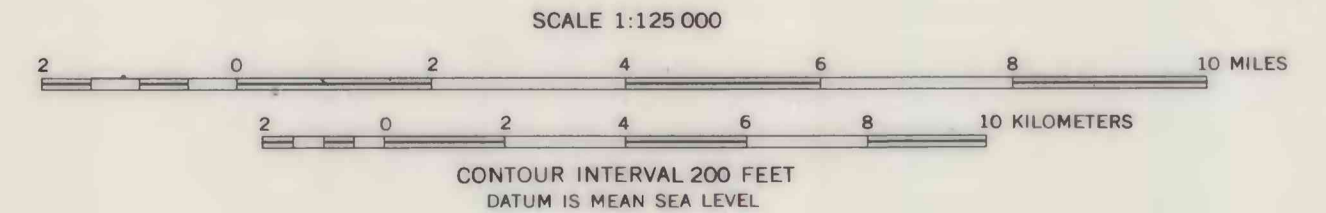
PRINCIPAL SOURCES OF INFORMATION

Ferriars, O. J., Jr., 1970, Unpublished field compilation; Brosig, W. P., Dutro, J. T., Jr., Mangus, H. D., and Reiser, H. N., 1960, U.S. Geol. Survey open-file report; Latham, E. H., 1963, U.S. Geol. Survey open-file report; Detternan, R. L., 1953, U.S. Geol. Survey Circ. 289.

Note: Glaciers and lakes can be distinguished from geologic units by the absence of geologic symbols.



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



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Bedrock units shaded.

PRELIMINARY ENGINEERING GEOLOGIC MAPS OF THE PROPOSED TRANS-ALASKA PIPELINE ROUTE, PHILIP SMITH MOUNTAINS QUADRANGLE

Compiled by Oscar J. Ferriars, Jr. 1971

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

PLEASE REPLACE IN POCKET