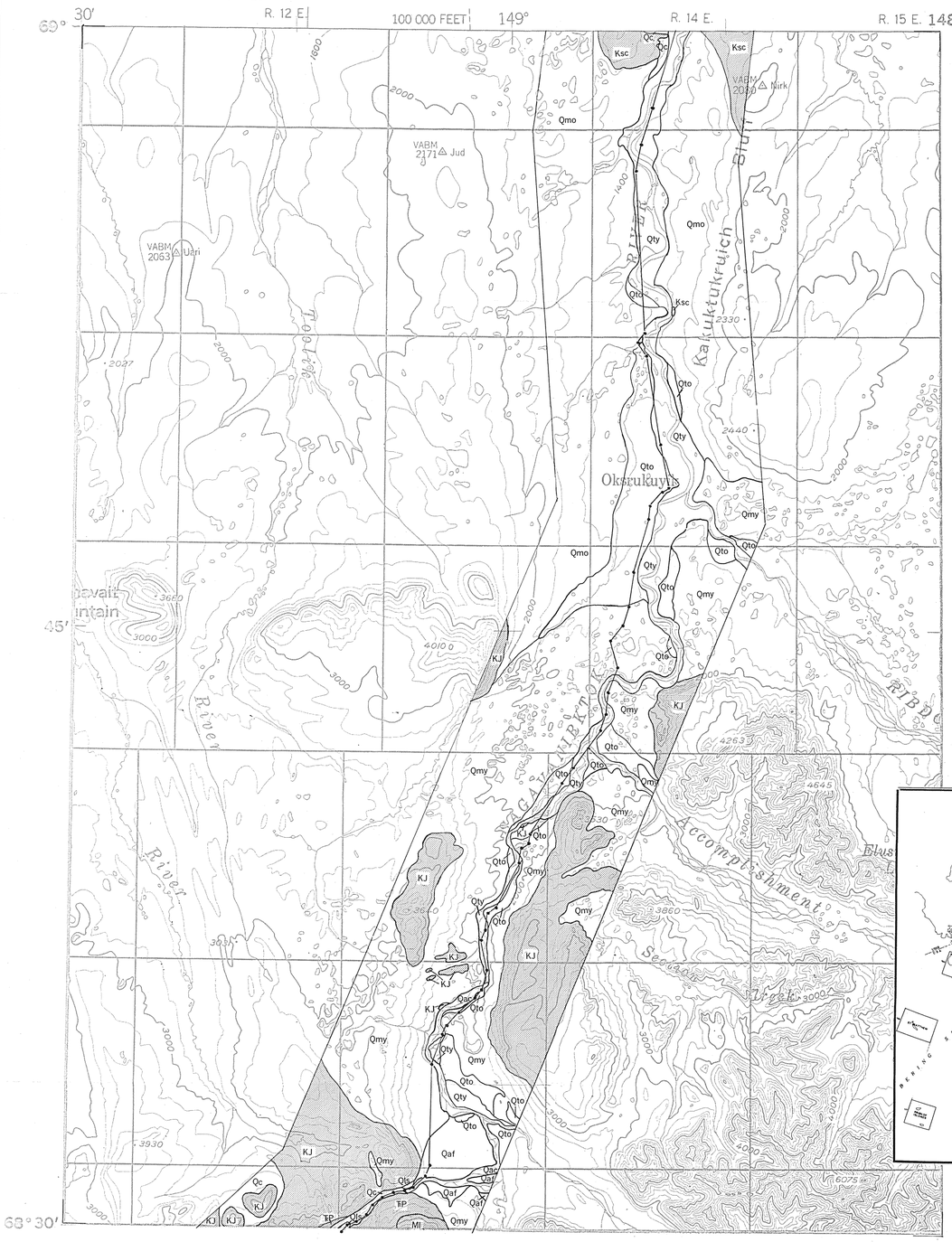
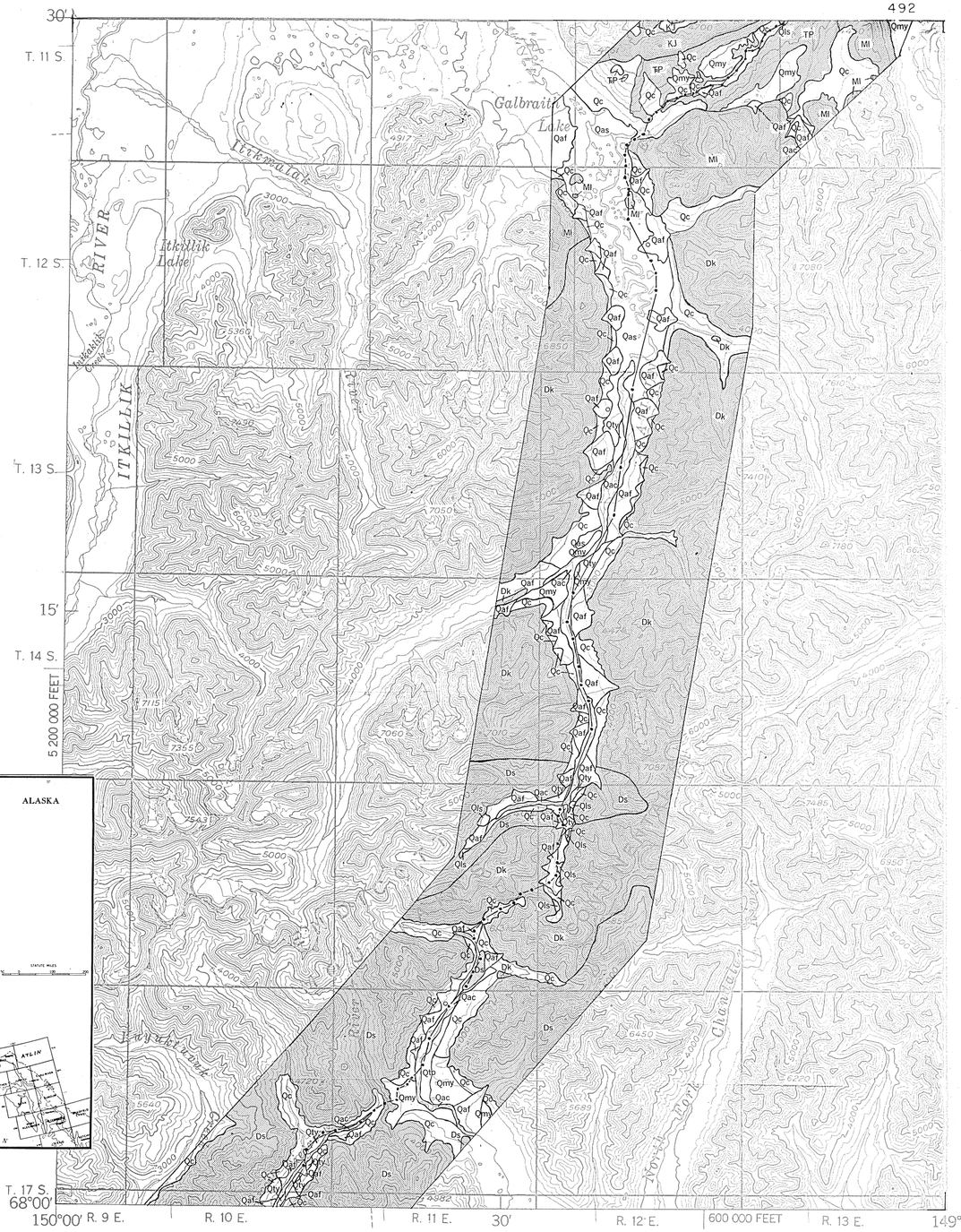
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE MAP

PHILIP SMITH MTS.





EXPLANATION

UNCONSOLIDATED DEPOSITS

HOLOCENE

- Qac — Active flood plain
- Qaf — Alluvial fans
- Qc — Colluvium
- Qty — Young alluvial terraces
- Qls — Landslides
- Qas — Fine-grained alluvium and eolian sand

PLEISTOCENE

- Qmy — Young moraine
- Qto — Old alluvial terraces
- Qmo — Old moraine

QUATERNARY

SEDIMENTARY ROCKS

- Ksc — Cretaceous sandstone and conglomerate
- KJ — Cretaceous and Jurassic shale, sandstone, and conglomerate
- TR — Triassic and Permian shale, siltstone, sandstone, and limestone
- Ml — Mississippian limestone, dolomite, chert, and shale
- Dk — Devonian conglomerate
- Ds — Devonian slate and sandstone

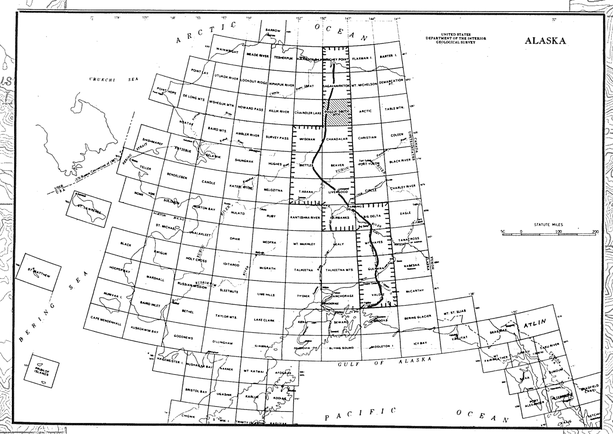
SYMBOLS

- Contact (Locally gradational and approximately located)
- Pingos (ice-cored hillocks)
- Pipeline Route (Approximately located; based on information available prior to March 1971

PRINCIPAL SOURCES OF INFORMATION

Ferrians, O. J., Jr., 1970, Unpublished field compilations; Brosgé, W. P., Dutro, J. T., Jr., Mangus, M. D., and Reiser, H. N., 1960, U.S. Geol. Survey open-file report; Lathram, E. H., 1965, U.S. Geol. Survey open-file report; Detterman, 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

SCALE 1:125 000

2 0 2 4 6 8 10 MILES

2 0 2 4 6 8 10 KILOMETERS

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

Bedrock units shaded.

N

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

Compiled by Oscar J. Ferrians, Jr. 1971

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