



### NATIONAL PETROLEUM RESERVE-ALASKA

#### Explanation

Deposits not subdivided by age nor arranged in columnar fashion by relative age. Unconsolidated deposits are Quaternary (possibly late Tertiary?) age as shown by letter Q; Bedrock is probably of Cretaceous age and older.

- Qb** Marine beach deposits
- Qm** Marine silt
- Qms** Marine sand
- Qs** Upland silt
- Qss** Eolian sand (ruled pattern where reworked by streams)
- Qsm** Silt and muck
- Qal** Floodplain and low terrace deposits (Open circles where gravel, stippled circles where gravelly sand, stippled where sand, and dashed where silt predominates.)
- Qc** Colluvium
- Qog** Outwash gravel and terrace deposits
- Qg** High-level gravel (ancestral Colville)
- Qty** Younger glacial till
- Qto** Older glacial till
- b** Undifferentiated bedrock
- ?---? Contact between units approximately located from aerial photographs, queried where basis for line is of low reliability.
- Wave-cut cliff, substantially modified by solifluction processes, hachures downslope. May coincide with contact.
- Morainal ridge

Field mapping 1977 by

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#### LOCATION MAP

Planimetry and selected topography from U.S. Geological Survey Barrow, Harrison Bay, Howard Pass, Ikkipuk River, Kiliik River, Lookout Ridge, Misheguk Mountain, Meade River, Teshekpuk, Umiat, Utukok River, and Wainwright 1:250,000 quadrangles.

Base map compiled for HUSKY OIL OPERATIONS, IHC., 1977, by ALASKA MAP SERVICE, IHC.

### PRELIMINARY SURFICIAL DEPOSITS MAP OF NATIONAL PETROLEUM RESERVE-ALASKA

By

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1977

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