DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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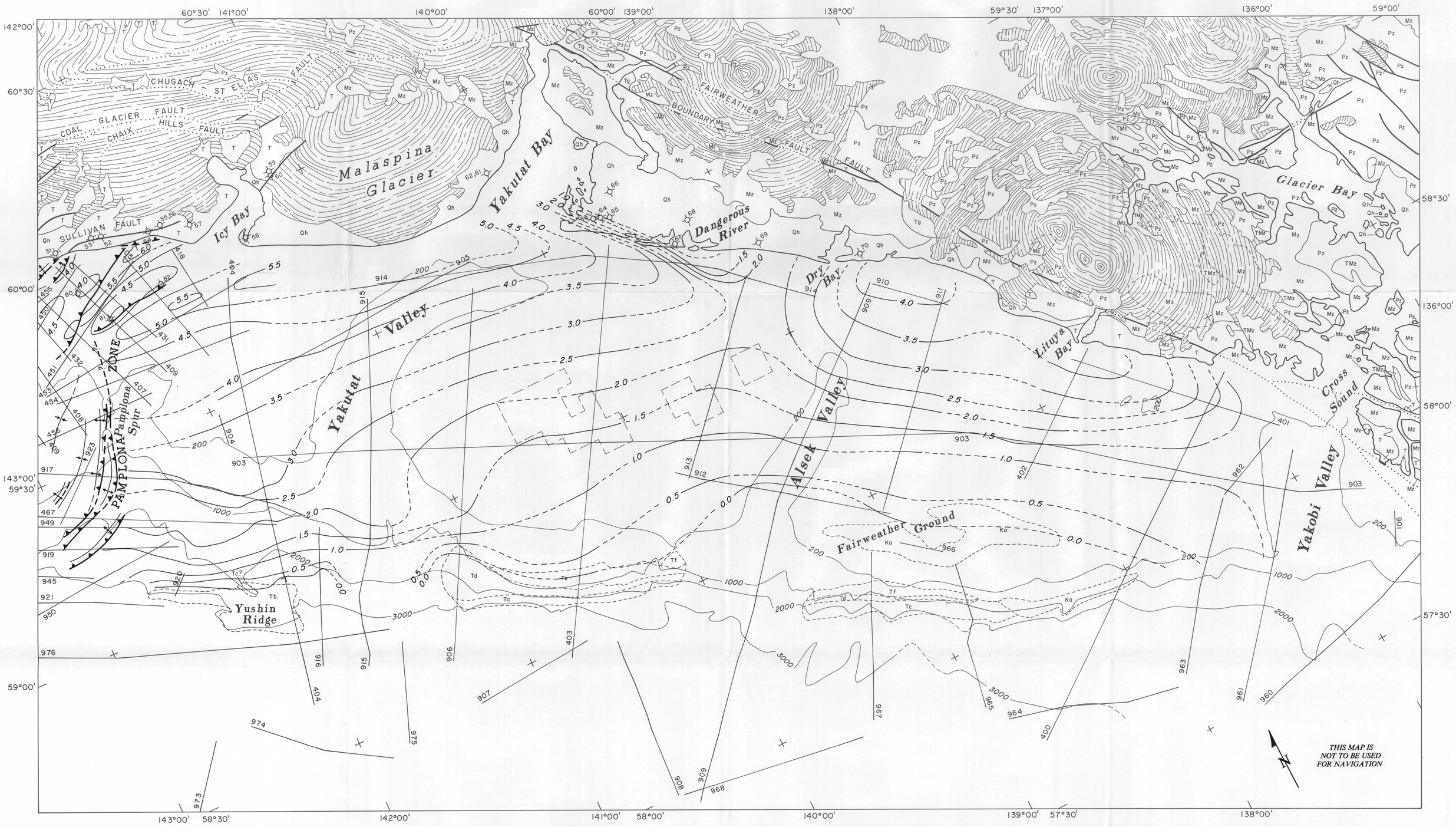
MISCELLANEOUS FIELD STUDIES
MAP MF-1480
SHEET 1 OF 3



ISOPACH OF NEOGENE AND QUATERNARY STRATA BETWEEN HORIZON *D* AND THE SEAFLOOR

CORRELATION OF MAP UNITS

ONSHORE UNITS			OFFSHORE UNITS				
Qa	Holocene and Pleistocene	QUATERNARY	QTs	Holocene to middle(?) Miocene	Holocene to Miocene	QUATERNARY AND TERTIARY	
Ts	TERTIARY		Tf	Upper Oligocene	Oligocene	TERTIARY	
Tg			Te	Lower(?) Oligocene and upper Eocene			
TMz	TERTIARY AND (OR) MESOZOIC		Td	Middle and lower Eocene	Eocene		
Mz	MESOZOIC		Tc	Lower Eocene			
Pz	PALEOZOIC		Tb	Lower(?) Eocene and Paleocene(?)	Paleocene		
			Ka		Upper Cretaceous	CRETACEOUS	

DESCRIPTION OF MAP UNITS

ONSHORE UNITS

- Qa — Alluvial, glacial, lacustrine, and beach deposits, undivided (Quaternary)
- Ts — Mainly marine clastic sedimentary rocks (Tertiary)
- Tg — Mainly granodiorite (Tertiary)
- TMz — Mainly granitic rocks (Tertiary and (or) Mesozoic)
- Mz — Sedimentary, volcanic, intrusive, and metamorphic rocks (Mesozoic)
- Pz — Sedimentary, volcanic, metamorphic, and intrusive rocks (Paleozoic)

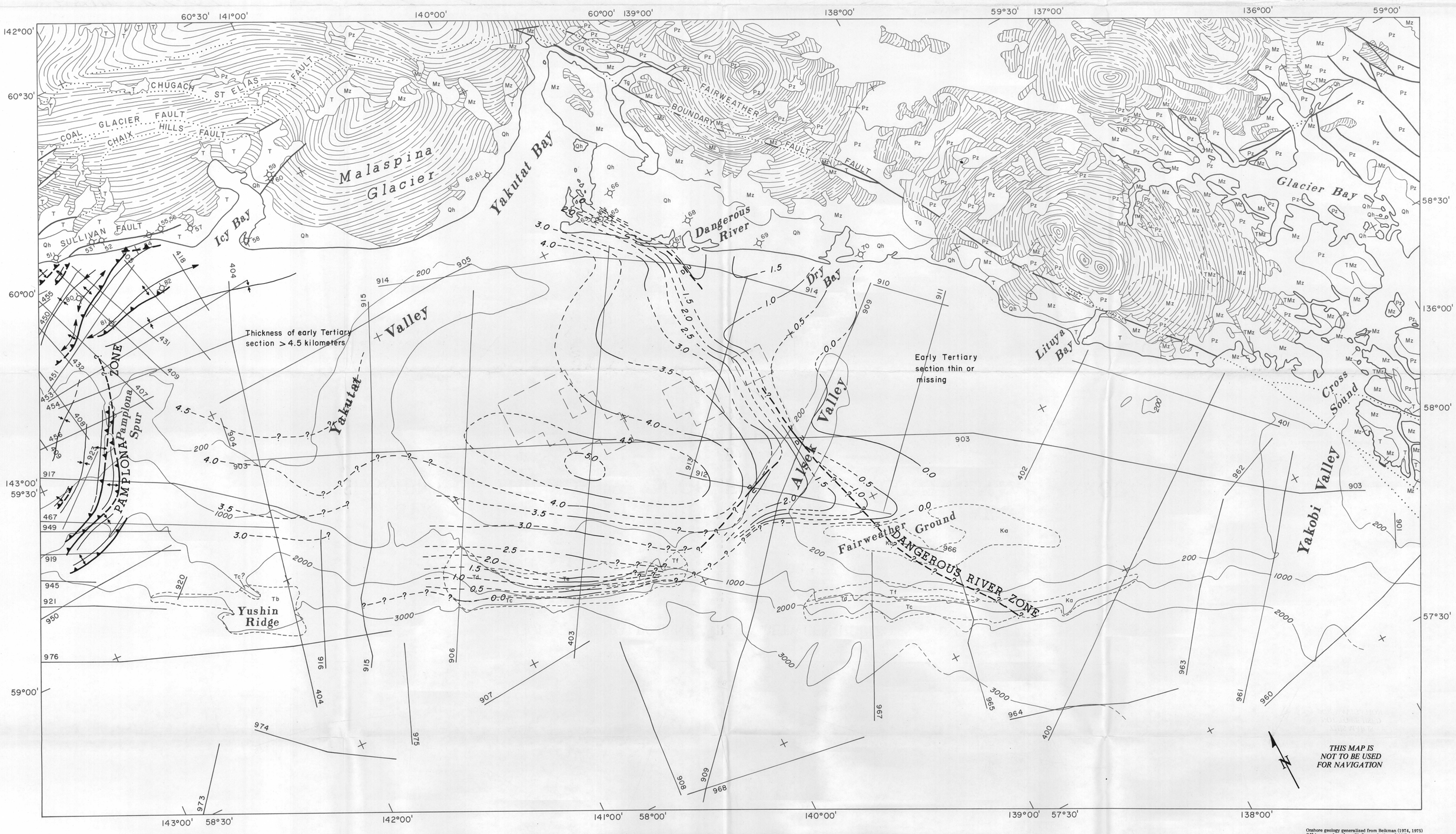
OFFSHORE UNITS

(Terminology of Plafker and others, 1980)

- QTs — Unit G–Mainly glaciomarine sedimentary rocks (Holocene to middle? Miocene)
- Tf — Unit F–Marine siltstone (upper Oligocene)
- Te — Unit E–Marine shale, siltstone, and sandstone (lower? Oligocene and upper Eocene)
- Td — Unit D–Marine sandstone, conglomerate, siltstone, and shale (middle and lower Eocene)
- Tc — Unit C–Mainly basalt with associated marine sedimentary rocks (lower Eocene)
- Tb — Unit B–Sandstone, conglomerate, and shale (lower? Eocene and upper Paleocene?)
- Ka — Unit A–Graywacke, argillite, and possibly intrusive rocks (Upper Cretaceous)

EXPLANATION OF SYMBOLS

- CONTACT–Dashed where approximately located
- FAULT–Dashed where approximately located; dotted where concealed; queried where inferred. U, Upthrown side; D, Downthrown side
- THRUST FAULT–Dashed where approximately located; queried where inferred; sawteeth on upper plate
- STRIKE-SLIP FAULT–Dashed where approximately located; dotted where concealed; arrows show relative motion
- ANTICLINE–Showing direction of plunge; dashed where approximately located
- SYNCLINE–Dashed where approximately located
- BATHYMETRIC CONTOURS–Contours in meters (200, 1000, 2000, and 3000). Dashed where approximately located; from Atwood and others (1981)
- ISOPACH CONTOURS–Between mapped seismic horizon D and seafloor, and between seismic horizons F and D. Dashed where approximately located or where control is poor; queried where uncertain or inferred. Contour interval 0.5km
- LINE OF TRUNCATION OF MAPPED HORIZON AT OR NEAR SEA FLOOR–Dashed where control is poor; dotted where concealed; queried where uncertain
- ZONE OF TRUNCATION IN SUBSURFACE OF STRATA BETWEEN MAP HORIZONS F AND D–Queried where uncertain
- 403 — MULTICHANNEL SEISMIC-REFLECTION TRACKLINES–Showing line numbers
- LEASE BLOCKS–Blocks leased during Outer Continental Shelf Lease Sale 55, October 1980
- EXPLORATORY WELL–Number refers to tables in Plafker (1971) and Bruns and Schwab (1983)
- ICEFIELD



ISOPACH OF PALEOGENE STRATA BETWEEN HORIZONS *F* AND *D*

Base from U.S. Geological Survey computer-generated grid, 1978.
Shoreline from U.S. Geological Survey, 1:250,000
Sitka,1951; Bering Glacier, Mount St. Elias, Yakutat,1959; Icy Bay, Mount Fairweather,1961

Onshore geology generalized from Beikman (1974, 1975)
Offshore geology from Plafker and others (1980)
Bathymetry from Atwood and others (1981)

Scale 1:500 000
1 inch equals approximately 8 miles

NATIONAL GEODETIC VERTICAL DATUM OF 1929
Bathymetric contours at 200, 1,000, 2,000, and 3,000 m
Albers equal-area projection based on standard parallels 55° and 65°N

STRUCTURE AND PETROLEUM POTENTIAL OF THE YAKUTAT SEGMENT OF THE NORTHERN GULF OF ALASKA CONTINENTAL MARGIN

By
Terry R. Bruns

1983

Explanatory pamphlet accompanies map

Interior—Geological Survey, Reston, Va.—1983

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