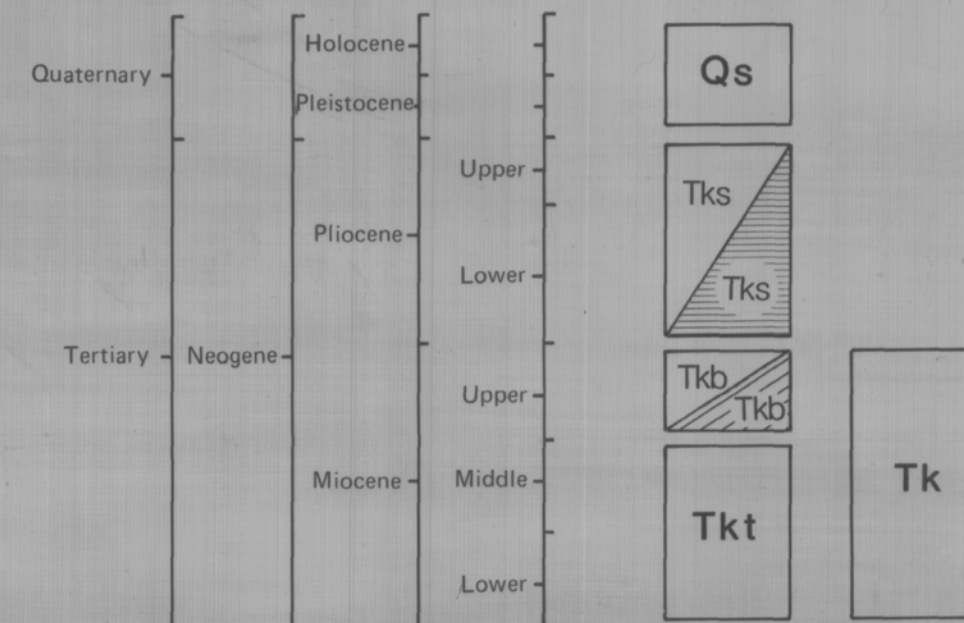


LITHOLOGIC SYMBOLS

	Gravel deposit		Clayey siltstone		Floating sandstone clasts
	Conglomerate		Silty claystone		Sandstone channel deposits with scouring
	Pebbly sandstone		Claystone		Limy concretionary bodies
	Coarse-grained sandstone		Volcanic ash		Carbonaceous shale with coal stringers
	Fn- to med-grained sandstone		Carbonaceous shale		Siderite nodules
	Silty sandstone		Boney coal		Thin beds, lenses, or stringers of coal
	Sandstone with coaly material		Coal		Rippled bedding
	Clayey sandstone		Partings in coal, (from top): sandstone, siltstone, claystone, carbonaceous shale, and volcanic ash		Planar crossbedding in a fn- to med-grained ss
	Sandy siltstone		Gradational lithologic sequence (fining upward)		Planar crossbedding in a cgs-grained ss
	Interbedded silt and clay		Gradational lithologic sequence (coarsening upward)		Trough crossbedding
	Interbedded sand and silt		Lithologic sequence with sharp contacts		Covered interval-short
	Siltstone		Nodular siltstone and sandstone bodies		Covered interval-long

GEOLOGIC UNIT CORRELATION



DESCRIPTION OF MAP UNITS

Quaternary deposits, undifferentiated	Sterling Formation	Beluga Formation	Tyonek Formation	Tertiary Kenai Group rocks, undifferentiated

GEOLOGIC MAP SYMBOLS

	Anticline		Coal sampling locality (1986) with sample number
	Syncline		Coal sampling locality (2)
	Contact ---dashed where approximately located		Plant fossil locality (3,4)
	Fault, showing dip ---dashed where approximately located, dotted where concealed; U, upthrown side, D, downthrown side.		Abandoned coal mine or coal prospect
	Thrust or reverse fault ---dashed where concealed. Sawteeth on upthrown block		Oil well---dry (3)
	Vertical fault		Surface location of directionally-drilled hole (3)
	Strike and dip of beds		Gas well---shut in (3)
	Horizontal beds		Consolidation Coal Co. drill hole (1976)
	Coal-section locality---thin boxed numbers or no boxes represent Barnes and Cobb 2 sections. Thick boxed numbers represent sections from Barnes 1.		U.S. Geological Survey coal exploration drill hole (2)
	Coal-section locality (1986)		Proposed drill hole---geologic information
			Proposed drill hole---coal resource information

SOURCES OF GEOLOGIC INFORMATION

- Barnes, F.F., 1947-1948, Geologic map of the southern part of the Homer district, Kenai coal field, Alaska: U.S. Bureau of Mines unpublished map, Juneau, scale 1:31,680, 1 sheet.
- Barnes, F.F., and Cobb, E.H., 1959, Geology and coal resources of the Homer district, Kenai coal field, Alaska: U.S. Geological Survey Bulletin 1058-F, p. 217-260, scale 1:63,360, 12 sheets.
- Magoon, L.B., Adkison, W.L., and Egbert, R.M., 1976, Map showing geology, wildcat wells, Tertiary plant fossil localities, K-Ar age dates, and petroleum operations, Cook Inlet area, Alaska: U.S. Geological Survey Miscellaneous Investigations Map I-1019, scale 1:250,000, 3 sheets.
- Wolfe, J.A., and Tanai, Toshimasa, 1980, The Miocene Seldovia Point flora from the Kenai Group, Alaska: U.S. Geological Survey Professional Paper 1105, 52 p.

Cartography by A.G. Sturmman

EXPLANATION AND SYMBOLS

THIS REPORT HAS NOT BEEN REVIEWED FOR TECHNICAL CONTENT (EXCEPT AS NOTED IN TEXT) OR FOR CONFORMITY TO THE EDITORIAL STANDARDS OF DGGS