

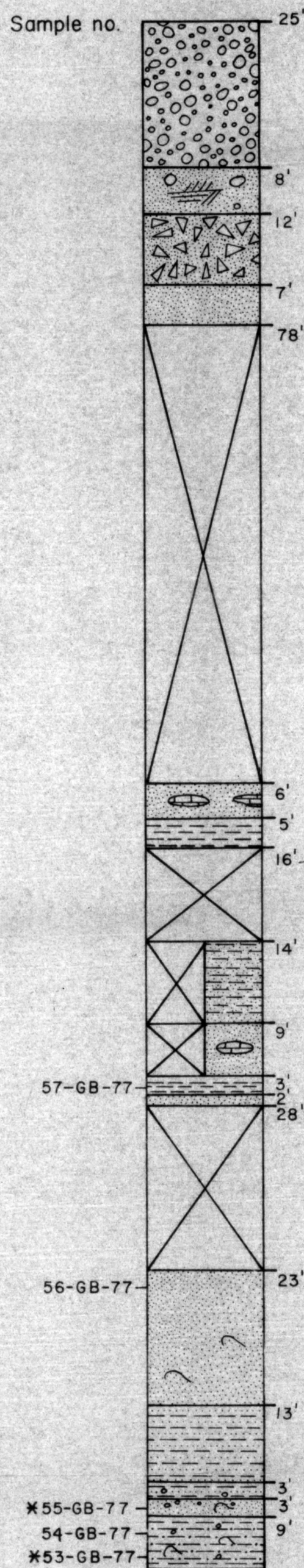
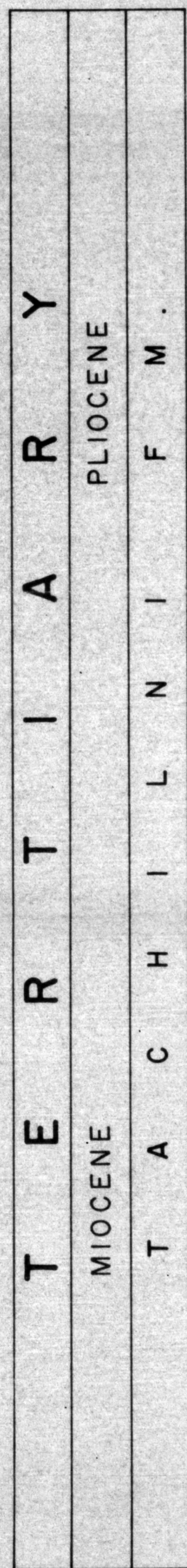
EAST MORZHOVOI BAY

STRATIGRAPHIC SECTIONS

Sec. 35, T.60 S., R. 90 W.
MAP LOCATION NO. 421

MEASURED BY: I. F. PALMER
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JULY 1977



CONGLOMERATE - Cobble and boulder clast supported, sandstone matrix. Clasts dominantly andesite and diorite with minor quartz, chert, basalt, and tuff; angular to subrounded.

SANDSTONE - Light gray (N7), fine- to coarse-grained, scattered boulders to 8 feet, crossbedded.

AGGLOMERATE - Cobble-sized, angular, volcanic rock fragments in tuffaceous matrix.

SANDSTONE - Fine- to coarse-grained, muddy.

COVERED

SANDSTONE - Black (N1) with jarosite mottling, medium- to coarse-grained, calcareous concretions.

CLAYSTONE COVERED - Light brownish-gray (5YR6/1).

MUDSTONE - Light gray (N7), sandy, blocky fractures.

SANDSTONE - Black (N1) with jarosite mottling, medium- to coarse-grained, calcareous concretions.

CLAYSTONE SANDSTONE COVERED - Light-brownish-gray (5YR6/1). Very friable.

SANDSTONE - Fine-grained, muddy; scattered pelecypods.

INTERBEDDED SANDSTONE AND MUDSTONE - Medium-dark-gray (N4).

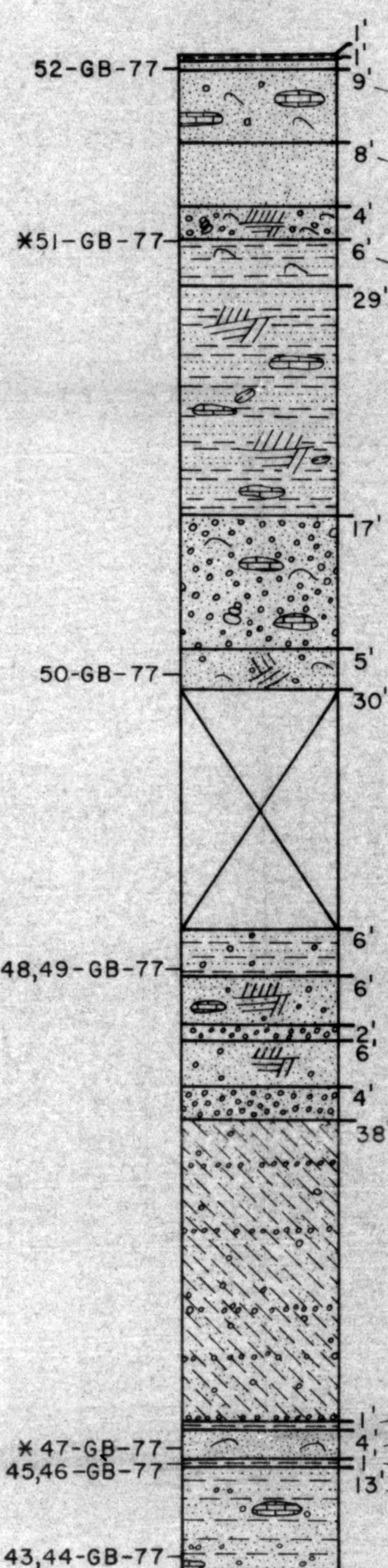
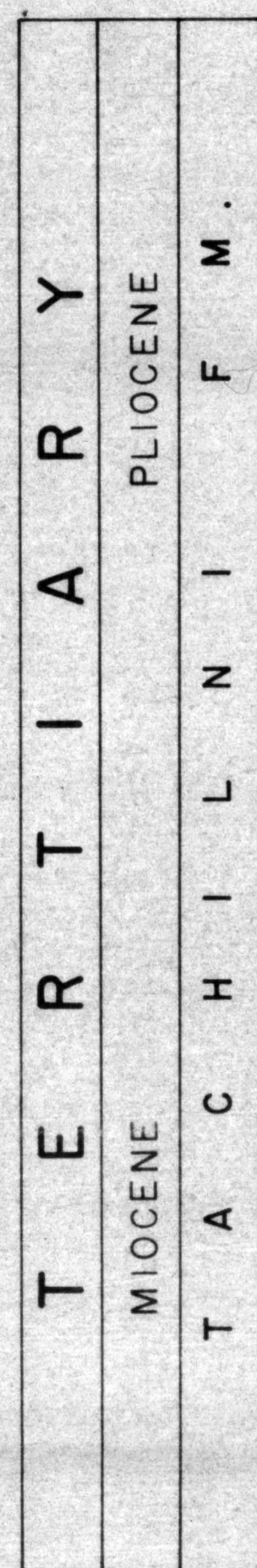
INTERLAMINATED MUDSTONE AND SANDSTONE SANDSTONE - Scattered pebbles. Grayish black (N2), fine- to medium-grained, muddy, pebbly near top; some pelecypods.

MUDSTONE - Medium-dark-gray (N4), scattered sand and pebbles; some pelecypods.

Porosity or Age Permeability or Environment

11.6%	242 mD

NOTE - Upper Section is Located Approximately 1/4 Mile West of Lower Section. There is Approximately 20 Feet of Overlap Between The Two Sections. Nonrepetition of Lithologic Units in The Area of Overlap is Due To Lensing.



CLAYSTONE SANDSTONE - Yellowish gray (5Y8/1). Medium-light-gray (N6), fine-grained, 1-inch mudstone at base.

SANDSTONE - Very fine grained, muddy, scattered pebbles, some mudstone rip-ups; some pelecypods, bioturbated; minor carbonaceous debris.

SANDSTONE SANDSTONE - Light gray (N7), very fine grained, muddy; flaser laminations. Fine to very coarse grained, muddy, pebbly; mudstone stringers; crossbedded. Abundant pelecypods, gastropods, echinoids, barnacles; bioturbated; minor carbonaceous debris.

INTERLAMINATED MUDSTONE AND SANDSTONE - Olive-black (5Y2/1); some pelecypods, carbonaceous debris.

CONGLOMERATE - Pebbles supported by muddy, very fine to very coarse sandstone matrix; matrix medium gray (N5); calcareous concretions in layers. Some pelecypods and gastropods, bioturbated; some petrified wood.

SANDSTONE - Medium-light-gray (N6). Very fine grained, muddy, scattered pebbles.

INTERLAMINATED SANDSTONE AND CLAYSTONE - Sandstone medium-light-gray (N6) to medium bluish-gray (5B5/1); very fine to very coarse grained, muddy, pebbly, some claystone rip-ups. Claystone grayish yellow (5Y8/4). Whole unit crossbedded; calcareous concretions in layers; some petrified wood.

COVERED

INTERBEDDED MUDSTONE AND SANDSTONE - Mudstone brownish black (5YR2/1), siliceous, laminated. Sandstone pebbly.

SANDSTONE - Grayish olive (10Y4/1), fine-grained, muddy, pebbles scattered and in layers, calcareous concretions in layers; crossbedded.

CONGLOMERATE SANDSTONE - Pebbles supported by sandstone matrix.

CONGLOMERATE - Light olive (10Y5/4), fine-grained, muddy, scattered pebbles; crossbedded.

CONGLOMERATE - Pebbles supported by sandstone matrix; bedded.

INTERBEDDED SANDSTONE AND MUDSTONE - Sandstone light olive-brown (5Y5/6), very fine to coarse-grained, muddy, pebbly in layers, minor carbonaceous debris. Mudstone olive-black (5Y2/1), laminated. Whole unit crossbedded.

MUDSTONE SANDSTONE - Olive-gray (5Y3/2), laminated.

SANDSTONE - Brownish gray (5YR4/1), very fine to fine-grained, muddy, pebbly; abundant pelecypods, minor petrified wood.

MUDSTONE - Olive-gray (5Y3/2), laminated.

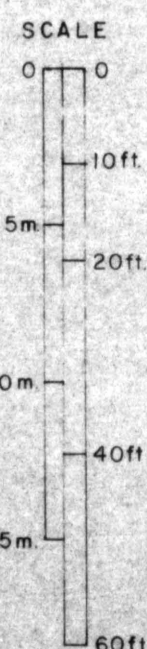
INTERBEDDED SANDSTONE AND MUDSTONE - Sandstone olive-black (5Y2/1), very fine to fine-grained, muddy, pebbles in layers, calcareous concretions in layers. Mudstone olive-black (5Y2/1), sandy. Whole unit bioturbated.

20.1% 200 mD

Marine ?

Marine ?

* SEE TABLE 8 FOR IDENTIFICATION OF MACROFOSSILS AND U.S.G.S. CENOZOIC LOCALITY NUMBER.



STATE OF ALASKA
DEPT. OF NATURAL RESOURCES
Div. of Geological & Geophysical Surveys