UMBRELLA REEF

STRATIGRAPHIC SECTION

Sec. 7, T22S, R20E CRM

Bering Glacier Quadrangle

Date: June 1975

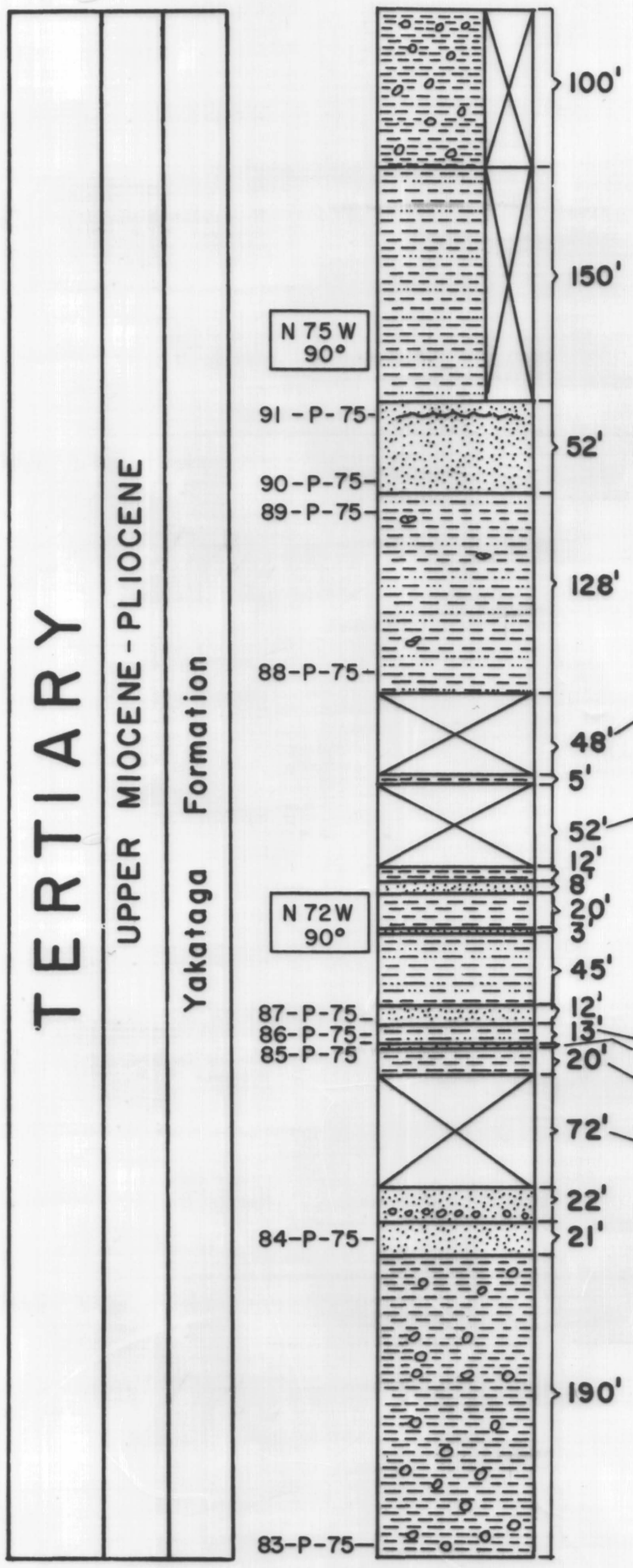
Measured by: J.W., W.L., I.P.

Covered by ocean 0900, 6-24-75

TERTIARY

UPPER MIOCENE-PLIOCENE

Yakataga Formation



Scale 1" = 100'

Mudstone - Conglomeratic, pebble, cobble

Partially covered by ocean

Alternating - Mudstone and Siltstone in 2-4" brn. and gy. bands with siltstone beds 3' thick.

Partially covered by ocean

Sandstone - gy. N4, 0.1-0.25mm., ripple laminae with thin siltstone stringers, friable

Alternating Mudstone and Siltstone banded 2-3" bands, fossiliferous, some reverse grading in silty zones.

Covered - boulders - sand

Mudstone, dk. gy., no pebbles

Covered - boulder armored pavement

Mudstone

Sandstone, as 21' thick unit below

Mudstone, dk. gy.

Sandstone, friable

Alternating Mudstone and Siltstone

Sandstone, fn.-m. gr., .25-.5mm., 50% quartz, 25% feldspar, 20% lithic fragments

Alternating Mudstone and Siltstone, M60% S40%

Sandstone, as 21' thick unit below

Mudstone, contorted bedding - slump structure

Covered - beach sand

Sandstone, conglomeratic at base

Sandstone, m. dk. gy., N4 (F) fn. gr., 0.1mm., friable, 45% feldspar, 40% quartz, 10% lithic fragments and ferromagnesian grs.

Mudstone, conglomeratic, pebble and cobble, of diverse lithology, olv. gy., 5Y 3/2 (F) lt. olv. gy. 5Y2/2 (W), silty, clasts subround.

Base of section at sea cliff near mouth Lawrence Creek; section is probably south flank of Sullivan Anticline

LAB. DATA

	PERCENT POROSITY	PERMEABILITY	PPM HYDROCARBON
91-P-75-	21.4	25	
90-P-75-	25.6	597	
89-P-75-			20
88-P-75-	probable Pliocene to Pleistocene - outer neritic to upper bathyal		
	25.8	268	
87-P-75-			43
86-P-75-	probable Pliocene to Pleistocene - neritic - possible inner to middle neritic		
85-P-75			
84-P-75-	25.0	180	
83-P-75-	late Miocene to Pleistocene - possible neritic		
AVERAGE	24.5	267	

AOF 93 PLATE IX

GULF OF ALASKA
STRATIGRAPHIC STUDY