FIGURE F-7

HIGH RESOLUTION FORAMINIFERA DISTRIBUTION CHART

MICROPALEO CONSULTANTS

WELL NAME :PANAM HOODOO LAKE UNIT NO.2
PROJECT :NORTH ALEUTIAN BASIN BIOSTRATIGRAPHY PROJECT
PALEONTOLOGIST :MICHAEL B. MICKEY

API NUMBER :50-211-20004
LOCATION :SEC. 35, T50S/R76W SM
TOTAL DEPTH :11,243 FEET

KELLY BUSHING :345 FEET
BASIN :NORTH ALEUTIAN
STATE :ALASKA

DATE :JUNE 2005
PROJECT :25-104

RELATIVE ABUNDANCE KEY

- = NOT PRESENT
- = 1 TO 1 VERY RARE
- = 2 TO 4 RARE
- = 5 TO 25 FREQUENT
- = 26 TO 100 COMMON
- = 101 TO 999 ABUNDANT
- = 1000 TO 99,999 PROLIFIC

SPECIES LOCATION INDEX

FAUNAL DIVERSITY (FILLED) — TOTAL FAUNA

CUMULATIVE FAUNAL PLOT (%) — TOTAL AGGLUTINATED; TOTAL CALC BENTHICS; TOTAL PORCELLANEOUS; TOTAL PLANKTICS; TOTAL RADIOLARIA

FORAMINIFERA — RADIOLARIA — MISCELLANEOUS — ROCKS, MINS., ETC. — PALEOENVIRONMENTS

AGE	STAGE/ZONE		SAMPLE DEPTH (FEET)	WASHED LITHOLOGY DESCRIPTION
TERTIARY	UNDIFFERENTIATED	UNDIFFERENTIATED	0-60	NO WASHED LITHOLOGY
			200-270	NO WASHED LITHOLOGY
			227-300	BROWN FINE GRAINED LITHIC (VOLCANIC) SANDSTONE
			270-330	NO WASHED LITHOLOGY
			300-390	BROWN FINE GRAINED LITHIC (VOLCANIC) SANDSTONE
			330-390	NO WASHED LITHOLOGY
			390-480	BROWN VERY FINE TO FINE GRAINED LITHIC (VOLCANIC) SANDSTONE
			480-570	BROWN FINE GRAINED LITHIC (VOLCANIC) SANDSTONE
			540-560	NO WASHED LITHOLOGY
			570-660	BROWN FINE GRAINED MUDDY LITHIC (VOLCANIC) SANDSTONE
			660-750	NO WASHED LITHOLOGY
			660-720	BROWNISH-GRAY MEDIUM GRAINED LITHIC (VOLCANIC) SANDSTONE
			750-840	BROWNISH-GRAY MEDIUM GRAINED LITHIC (VOLCANIC) SANDSTONE
			780-870	NO WASHED LITHOLOGY
			840-930	BROWNISH-GRAY MEDIUM GRAINED LITHIC (VOLCANIC) SANDSTONE
			870-890	NO WASHED LITHOLOGY
			930-1020	BROWNISH-GRAY MEDIUM GRAINED LITHIC (VOLCANIC) SANDSTONE
			1020-1110	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			1110-1200	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
	E. OLIGO. TO L. EOC.?	UNDIFF.	1200-1290	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			1290-1380	GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			1380-1470	GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
	PROBABLE EOCENE	PROBABLE LATE	1470-1560	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			1560-1650	GRAY FINE GRAINED MUDDY SANDSTONE
			1650-1740	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			1740-1830	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			1830-1920	GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			1920-2010	GRAY SANDY SHALE OR MUDSTONE
			2010-2100	GRAY VERY FINE GRAINED MUDDY SANDSTONE
			2100-2190	GRAY SILTY SHALE OR MUDSTONE
			2130-2160	NO WASHED LITHOLOGY
			2190-2280	GREENISH-GRAY SILTY BENTONITIC SHALE OR MUDSTONE
			2280-2370	GREENISH-GRAY SILTY BENTONITIC SHALE OR MUDSTONE
			2370-2460	GREENISH-GRAY SILTY SHALE OR MUDSTONE
			2400-2430	NO WASHED LITHOLOGY
			2460-2550	GREENISH-GRAY SILTY SHALE OR MUDSTONE
			2550-2640	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			2640-2730	GREENISH-GRAY SANDY SHALE OR MUDSTONE
		UNDIFFERENTIATED	2730-2820	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			2820-2910	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			2850-2910	NO WASHED LITHOLOGY
			2910-3000	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3000-3090	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3090-3180	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			3180-3270	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			3270-3360	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3330-3420	NO WASHED LITHOLOGY
			3360-3450	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3420-3480	NO WASHED LITHOLOGY
			3450-3540	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3480-3570	NO WASHED LITHOLOGY
			3540-3630	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3570-3630	NO WASHED LITHOLOGY
			3630-3720	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3720-3810	GREENISH-GRAY SLIGHTLY SANDY SHALE OR MUDSTONE
			3750-3780	NO WASHED LITHOLOGY
			3810-3900	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			3900-3990	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			3990-4080	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			4080-4160	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			4160-4240	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			4240-4320	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			4320-4400	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			4400-4480	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			4480-4560	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			4560-4580	NO WASHED LITHOLOGY
			4560-4640	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			4640-4720	DARK BROWNISH-GRAY SILTY SANDY SHALE OR MUDSTONE
			4720-4800	DARK BROWNISH-GRAY SILTY SANDY SHALE OR MUDSTONE
			4800-4880	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			4880-4960	GREENISH-GRAY VERY FINE GRAINED MUDDY SANDSTONE
			4960-5040	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5040-5120	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5120-5200	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5200-5280	DARK GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5280-5360	BROWNISH-GRAY FINE TO MEDIUM GRAINED SANDSTONE
			5360-5440	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			5440-5520	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5520-5600	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5600-5680	GREENISH-GRAY FINE GRAINED MUDDY LITHIC (VOLCANIC) SANDSTONE
			5680-5760	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5760-5840	GREENISH-GRAY SANDY SHALE OR MUDSTONE
			5840-5920	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			5920-6000	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			6000-6080	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			6080-6160	DARK BROWNISH-GRAY COALY SANDY SHALE OR MUDSTONE
			6160-6240	DARK BROWNISH-GRAY COALY SANDY SHALE OR MUDSTONE
			6240-6320	BLACK SANDY COAL SEAM
			6320-6400	BROWNISH-GRAY SANDY COALY SHALE OR MUDSTONE
			6400-6480	BROWNISH-GRAY SANDY COALY SHALE OR MUDSTONE
			6480-6560	BROWNISH-GRAY SANDY COALY SHALE OR MUDSTONE
			6560-6640	BROWNISH-GRAY SHALE OR MUDSTONE
			6640-6720	BROWNISH-GRAY SHALE OR MUDSTONE
			6720-6800	DARK BROWNISH-GRAY SANDY COALY SHALE OR MUDSTONE
			6800-6880	BROWNISH-GRAY SANDY COALY SHALE OR MUDSTONE
			6880-6960	BROWNISH-GRAY SANDY SHALE OR MUDSTONE
			6960-7040	DARK GRAY COALY SHALE
			7040-7120	BROWNISH-GRAY FINE GRAINED MUDDY SANDSTONE
			7120-7200	BROWNISH-GRAY FINE TO MEDIUM GRAINED SANDSTONE
			7200-7280	GREENISH-GRAY FINE GRAINED MUDDY SANDSTONE
			7280-7360	GREENISH-GRAY FINE GRAINED MUDDY SANDSTONE
			7360-7440	DARK BROWNISH-GRAY SANDY SHALE
			7440-7530	DARK BROWNISH-GRAY SANDY SHALE
			7530-7620	GRAY FINE GRAINED COALY SANDSTONE
			7620-7710	BROWNISH-GRAY FINE TO MEDIUM GRAINED SANDSTONE
	UNDIFF.	UNDIFF.	7710-7800	BROWNISH-GRAY FINE GRAINED SANDSTONE
			7800-7890	BROWNISH-GRAY MEDIUM GRAINED SANDSTONE
			7890-7980	GRAY FINE TO MEDIUM GRAINED SANDSTONE
			7980-8070	BROWNISH-GRAY COARSE GRAINED SANDSTONE
			7980-8910	BROWNISH-GRAY COARSE GRAINED SANDSTONE OR CONGLOMERATE
			8070-8160	BROWNISH-GRAY COALY SANDY SHALE OR MUDSTONE
			8160-8250	BROWNISH-GRAY COALY MEDIUM GRAINED SANDSTONE OR SANDY SHALE
			8250-8340	BROWNISH-GRAY MEDIUM TO COARSE GRAINED SANDSTONE OR SANDY SHALE
			8330-8360	BROWNISH-GRAY COARSE GRAINED SANDSTONE
			8340-8430	BROWNISH-GRAY MEDIUM TO COARSE GRAINED SANDSTONE OR SANDY SHALE
			8430-8520	DARK BROWNISH-GRAY FINE TO MEDIUM GRAINED SANDSTONE
			8520-8610	DARK GRAY SANDY SHALE
			8540-8560	BROWNISH-GRAY FINE TO MEDIUM GRAINED SANDSTONE OR SANDY SHALE
EARLY CRETACEOUS	VALANGINIAN TO HAUTERIVIAN	UNDIFF.	8570-8610	DARK BROWNISH-GRAY SANDY SHALE
			8610-8700	BROWNISH-GRAY CALCAREOUS SANDSTONE
			8700-8790	BROWNISH-GRAY CALCAREOUS SANDSTONE
			8790-8880	BROWNISH-GRAY CALCAREOUS SANDSTONE
			8880-8970	BROWNISH-GRAY LIMESTONE OR CALCILUTITE
			8970-9060	LIGHT BROWN AND WHITE LIMESTONE OR CALCARENITE
			9060-9150	LIGHT BROWN AND WHITE LIMESTONE OR CALCARENITE
			9150-9240	LIGHT BROWN AND WHITE LIMESTONE OR CALCARENITE
			9240-9330	LIGHT TAN AND WHITE LIMESTONE OR CALCARENITE
			9330-9420	LIGHT TAN LIMESTONE OR CALCARENITE
			9420-9510	LIGHT TAN LIMESTONE OR CALCARENITE
			9510-9600	BROWNISH-GRAY FINE GRAINED CALCARENITE
LATE JURASSIC? TO EARLY CRETACEOUS	OXFORDIAN? TO VALANGINIAN	UNDIFFERENTIATED	9600-9690	BROWNISH-GRAY FINE GRAINED CALCARENITE
			9690-9780	DARK GRAY SANDY SHALE
			9780-9870	DARK GRAY SANDY SHALE
			9870-9960	BROWNISH-GRAY SANDY SHALE
			9960-10050	BROWNISH-GRAY VERY FINE GRAINED SANDSTONE OR SILTSTONE
			10050-10140	BROWNISH-GRAY VF GR SDST OR SILTSTONE & GREEN-GRAY VOLCANIC ROCK
			10140-10230	GREENISH-GRAY VOLCANIC ROCK
			10230-10320	BROWNISH-GRAY IRON-STAINED VERY FINE GRAINED SDST OR SILTSTONE
			10320-10410	BROWNISH-GRAY IRON-STAINED VERY FINE GRAINED SDST OR SILTSTONE
			10410-10500	BROWNISH-GRAY VF GR SDST OR SILTSTONE & GREEN-GRAY VOLCANIC ROCK
			10500-10590	BROWNISH-GRAY IRON-STAINED SILTY SHALE
			10590-10680	GREENISH-GRAY SILTY SHALE OR MUDSTONE
			10680-10770	GREENISH-GRAY SLIGHTLY SANDY SHALE
			10770-10860	GREENISH-GRAY VOLCANIC ROCK
			10860-10950	GREENISH-GRAY VOLCANIC ROCK
			10950-11040	GREENISH-GRAY VOLCANIC ROCK
			11040-11130	BROWNISH-GRAY VERY FINE GRAINED SANDSTONE OR SILTSTONE
			11130-11220	GREENISH-GRAY VOLCANIC ROCK
			11220-11224	GREENISH-GRAY VOLCANIC ROCK