FIGURE P-9

HIGH RESOLUTION PALYNOMORPH DISTRIBUTION CHART

MICROFOSSIL CONSULTANTS

WELL NAME :GULF SANDY RIVER FEDERAL NO.1 | API NUMBER :50-061-10001 | KELLY BUSHING :255 FEET

PROJECT :NORTH ALEUTIAN BASIN BIOSTRATIGRAPHY PROJECT | LOCATION :SEC. 10, T46S/R70W SM | BASIN :NORTH ALEUTIAN | DATE :JUNE 2005

PALYNOLOGIST :HIDEYO HAGA | TOTAL DEPTH :13,068 FEET | STATE :ALASKA | PROJECT :25-104

RELATIVE ABUNDANCE KEY

- = NOT PRESENT
- | = 1 TO 1 VERY RARE
- = 2 TO 5 RARE
- = 6 TO 15 FREQUENT
- = 16 TO 30 COMMON
- = 31 TO 300 ABUNDANT
- = 301 TO 5000 PROLIFIC

* = 201 Specimens Reported.
** = 5000 Specimens Reported.

SPECIES LOCATION INDEX

SPORE - POLLEN

[1] Osmundacidites spp.
[2] Undifferentiated Disaccates
[3] Cicatricosisporites spp.
[4] Taxodiaceae
[5] Deltoidospora spp.
[6] Polypodium sp.
[7] Polypodiaceae
[8] Laevigatosporites spp.
[9] Sphagnumsporites spp.
[10] Stereisporites spp.
[11] Tsugaepollenites spp.
[12] Reticulatisulcites spp.
[13] Verrucosisporites spp. (small)
[14] Rhizophorites spp.
[15] Corylapollenites spp.
[16] Juglanspollenites spp.
[17] Triporopollenites spp. (poorly preserved)
[18] Cicatricosisporites spp.
[19] Rizolo sp.
[20] Pterocaryapollenites spp.
[21] Ericaceae
[22] Parsinipollenites confusus *
[23] Compositoipollenites rhizus

MICROPLANKTON

[24] Compositoipollenites rhizus *
[25] Alisporis sp.
[26] Fungal fruiting body
[27] Xandrodinium variabile
[28] Paradinia sp. *
[29] Foram test lining
[30] Cribroperidinium spp. *
[31] Kallosphaeridium capulatum
[32] Impagidinium pallidum
[33] Holdinium sp.
[34] Fungal spores
[35] Tuberculodinium vancampoae
[36] Selenopemphix spp.
[37] Spiniferites ramosus
[38] Lejeunecysta spp.
[39] Spiniferites spp.
[40] Sirmiodinium grossii
[41] Micrhystridium spp.
[42] Operculodinium centrocarpum
[43] Pyrodinium bahamense
[44] Trinovantedinium spp.
[45] Glaphyrocysta sp.
[46] Hazelinella sp. (fragment)
[47] Deflandrea sp.
[48] Selenopemphix sp.

MISC.

[1] Rhizhydridites spp.
[2] Rhizopteridites spp.
[3] Rogalla sp.
[4] Ballisphaeridium sp.
[5] Baculatacea
[6] Caryapollenites spp. (small)
[7] Cicatricosisporites spp.
[8] Compositae (Heliopsis type)
[9] Fungal sp.
[10] Gothanipollis sp. *
[11] Laevigatosporites spp.
[12] Lycopodiumsporites spp.
[13] Micrhystridium spp.
[14] Operculodinium centrocarpum
[15] Osmundacidites spp.
[16] Parsinipollenites confusus *
[17] Paradinia sp. *
[18] Polypodium sp.
[19] Pterocaryapollenites spp.
[20] Selenopemphix sp.
[21] Spiniferites spp.
[22] Tsugaepollenites spp.
[23] Undifferentiated Disaccates
[24] Verrucosisporites spp. (small)
[25] Xandrodinium variabile

SPORE-POLLEN DIVERSITY (FILLED)

0 5 10 15 20 25

MICROPLANKTON DIVERSITY (FILLED)

0 5 10 15 20

TOTAL SPORE-POLLEN

0.0 10 100 1000 5000

TOTAL MICROPLANKTON

0.0 10 100 1000 5000

PERIOD/EPOCH	AGE/ZONE	SAMPLE DEPTH (FEET)
TERTIARY / QUATERNARY	PLIOCENE? TO PLEISTOCENE	0-90 to 2910-3030
TERTIARY - NEOGENE	LATE MIOCENE TO PLIOCENE	3030-3090 to 6520-6610
TERTIARY	OLIGOCENE TO MIDDLE MIOCENE	6610-6700 to 11950-12030
TERTIARY - PALEOGENE	LATE EOCENE	12030-12120 to 13020-13050 C

SAMPLE DEPTH (FEET)

0-90
90-180
180-270
270-360
360-450
450-540
540-630
630-720
720-810
810-900
900-990
990-1080
1080-1170
1170-1260
1260-1350
1350-1440
1440-1530
1530-1620
1620-1710
1710-1800
1800-1890
1890-1980
1980-2070
2070-2190
2190-2280
2280-2370
2370-2460
2460-2550
2550-2640
2640-2760
2760-2850
2850-2910
2910-3030
3030-3090
3090-3180
3180-3270
3270-3360
3360-3450
3450-3540
3540-3630
3630-3720
3720-3840
3840-3960
3960-4080
4080-4200
4200-4320
4320-4440
4440-4560
4560-4680
4680-4800
4800-4920
4920-5040
5040-5160
5160-5260
5260-5350
5350-5470
5470-5590
5590-5710
5710-5800
5800-5890
5890-5980
5980-6070
6070-6160
6160-6250
6250-6340
6340-6430
6430-6520
6520-6610
6610-6700
6700-6790
6790-6880
6880-6970
6970-7060
7060-7150
7150-7240
7240-7330
7330-7420
7420-7510
7510-7600
7600-7690
7690-7780
7780-7870
7870-7960
7960-8050
8050-8150
8150-8240
8240-8330
8330-8420
8420-8510
8510-8600
8600-8690
8690-8790
8790-8880
8880-8970
8970-9060
9060-9150
9150-9240
9240-9330
9330-9420
9420-9510
9510-9600
9600-9690
9690-9780
9780-9870
9870-9960
9960-10050
10050-10140
10140-10230
10230-10320
10320-10410
10410-10500
10500-10590
10590-10680
10680-10770
10770-10860
10860-10960
10960-11050
11050-11140
11140-11230
11230-11320
11320-11410
11410-11500
11500-11590
11590-11680
11680-11770
11770-11860
11860-11950
11950-12030
12030-12120
12120-12210
12210-12300
12300-12390
12390-12480
12480-12570
12570-12660
12600-12650 C
12650-12700 C
12660-12700
12700-12890
12850-12880 C
12890-12980
12980-13050
13020-13050 C