FIGURE F-1

HIGH RESOLUTION FORAMINIFERA DISTRIBUTION CHART

WELL NAME :PHILLIPS ALASKA (ARCO) ITKILLIK RIVER NO.1
PROJECT :DIGITAL PALEO DATABASE PROJECT
PALEONTOLOGIST :MICHAEL B. MICKEY

API NUMBER :50-103-20003
LOCATION :SEC. 10, T08N/R05E UM
TOTAL DEPTH :15,321 FEET

BASIN :COLVILLE
COUNTY :NORTH SLOPE BOROUGH
STATE :ALASKA

DATE :MARCH 2001
PROJECT :99-111

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

[68] AMMOBACULITES ALASKENSIS
[77] AMMOBACULITES BARROWENSIS
[103] AMMOBACULITES CF. VETUSTA
[43] AMMOBACULITES ERECTUS
[55] AMMOBACULITES REOPHACOIDES
[72] AMMOBACULITES VETUSTA
[73] AMMODISCUS ASPERUS
[83] AMMODISCUS CHERADOSPIRUS
[59] AMMODISCUS MACKENZIENSIS
[82] AMMODISCUS ORBIS
[93] AMMODISCUS SILICEUS
[104] AMMODISCUS SP. P
[25] ANOMALINOIDES PINGUIS
[1] ANOMALINOIDES SOLIS
[6] ANOMALINOIDES TALARIA
[110] ARCHICORYS SP.
[23] ARENACEOUS SPP.
[42] ARENACEOUS SPP. (LARGE- COARSE)
[98] ASTACOLUS CONNUDATUS
[106] BARREN OF FORAMINIFERA
[90] BATHYSIPHON ANOMALOCOELIA
[58] BATHYSIPHON GRANULOCOELIA
[9] CAUCASINA VITREA
[108] CENOSPHAERA SPP.
[115] CENOSPHAERA SPP. (PYRITIZED)
[129] COAL
[44] CONORBOIDES UMIATENSIS
[24] CYCLAMMINA SP. S
[137] DARK GRAY TO BLACK SDST-SIZE CHERT PEBBLES
[5] DENTALINA BASIPLANATA
[84] DENTALINA ECTADIA
[85] DENTALINA SP.
[107] DICTYOMITRA SPP.
[128] ECHINOID SPINES
[28] EOEPONIDELLA CF. STROMBODES
[21] EOEPONIDELLA LINKI
[7] EOEPONIDELLA SP.
[15] EOEPONIDELLA STROMBODES
[75] EOGUTTULINA METENSIS
[123] FISH DEBRIS
[122] FISHBONE FRAGMENTS
[101] FRONDICULARIA CF. LUSTRATA
[61] GAUDRYINA LEFFINGWELLI
[54] GAUDRYINA MILLERI
[87] GAUDRYINA TOPAGORUKENSIS
[12] GAVELINELLA SP.
[138] GLAUCONITE
[51] GLOBULINA CANADENSIS
[2] GLOBULINA SPP.
[67] GLOBULINA TOPAGORUKENSIS
[79] GLOMOSPIRA PATTONI
[62] GLOMOSPIRA SUBARCTICA
[45] GLOMOSPIRELLA ARCTICA
[64] GLOMOSPIRELLA SP. S
[29] HAPLOPHRAGMIUM? SP.
[26] HAPLOPHRAGMOIDES BONANZAENSIS
[69] HAPLOPHRAGMOIDES CANUI
[47] HAPLOPHRAGMOIDES CORONIS
[46] HAPLOPHRAGMOIDES DUOFLATIS
[60] HAPLOPHRAGMOIDES GOODENOUGHENSIS
[50] HAPLOPHRAGMOIDES INFLATIGRANDIS
[70] HAPLOPHRAGMOIDES SPP.
[39] HYPERAMMINOIDES CF. BARKSDALEI
[121] INOCERAMUS PRISMS
[66] LENTICULINA AUDAX
[52] LENTICULINA MUENSTERI
[105] LENTICULINA WISNIOWSKII
[97] LINGULINA ALASKENSIS
[114] LITHOCAMPE SP. N
[112] LITHOCAMPE? SP.
[100] MARGINULINA PRISCA
[71] MARGINULINOPSIS PHRAGMITES
[118] MEGASPORES
[126] MONOTIS/HALOBIA FRAGMENTS
[81] NODOSARIA DETRUNCATA
[96] NODOSARIA LARINA
[78] NODOSARIA PHOBYTICA
[95] NODOSARIA SHUBLIKENSIS
[88] NODOSARIA SP.
[10] NONIONELLA CF. TAYLORENSIS
[27] NONIONELLA TAYLORENSIS
[4] NONIONELLA TAYLORENSIS?
[53] OOLINA APICULATA
[120] OSTRACODS
[127] OSTRACODS (MEDIUM-LARGE- SMOOTH)
[133] PAPER SHALE
[124] PELECYPODS
[125] PINNA? PRISMS
[14] PRAEBULIMINA AFF. CARSEYAE
[8] PRAEBULIMINA CUSHMANI
[11] PRAEBULIMINA VENUSAE
[63] PSEUDOBOLIVINA SP.
[37] PSEUDOBOLIVINA? SP.
[130] PYRITE
[135] PYRITE OBLATES
[132] PYRITE STICKS
[16] QUADRIMORPHINA CF. CAMERATA
[17] QUADRIMORPHINA CF. SPIRALIS
[94] QUINQUELOCULINA SP. (SMALL)
[89] RECTOGLANDULINA BRANDI
[48] RECTOGLANDULINA NETRONA
[86] RECURVOIDES TURBINATUS
[80] REOPHAX SUEVICA
[136] ROUNDED FROSTED QUARTZ FLOATERS
[30] SACCAMMINA LATHRAMI
[57] SARACENARIA PROJECTURA
[76] SARACENARIA TOPAGORUKENSIS
[113] SETHOCYRTIS SP.
[119] SHELL FRAGMENTS
[116] SPONGODISCUS SP. (PYRITIZED)
[109] SPONGODISCUS SPP.
[134] TAN "SPORBO"
[131] TAR
[117] THEOCORYS? SP.
[18] TROCHAMMINA ALBERTENSIS
[74] TROCHAMMINA CANNINGENSIS
[31] TROCHAMMINA CF. RIBSTONENSIS
[102] TROCHAMMINA CF. SABLEI
[19] TROCHAMMINA CF. WHITTINGTONI
[49] TROCHAMMINA CONICOMINUTA
[99] TROCHAMMINA HELICTA
[92] TROCHAMMINA INSTOWENSIS
[65] TROCHAMMINA KOSYREVAE
[41] TROCHAMMINA MCMURRAYENSIS
[32] TROCHAMMINA RIBSTONENSIS
[35] TROCHAMMINA RUTHERFORDI
[22] TROCHAMMINA SPP.
[56] TROCHAMMINA SQUAMATA
[20] TROCHAMMINA STEPHANSSONI
[40] TROCHAMMINA UMIATENSIS
[33] TROCHAMMINA WHITTINGTONI
[36] TROCHAMMINOIDES SP.
[91] VAGINULINA SP.
[13] VAGINULINA? SP.
[3] VALVULINERIA SP.
[38] VERNEUILINOIDES FISCHERI
[34] VERNEUILINOIDES? SP.
[111] ZONODISCUS SP. B

FORAMINIFERA

[1] ANOMALINOIDES SOLIS
[2] GLOBULINA SPP.
[3] VALVULINERIA SP.
[4] NONIONELLA TAYLORENSIS?
[5] DENTALINA BASIPLANATA
[6] ANOMALINOIDES TALARIA
[7] EOEPONIDELLA SP.
[8] PRAEBULIMINA CUSHMANI
[9] CAUCASINA VITREA
[10] NONIONELLA CF. TAYLORENSIS
[11] PRAEBULIMINA VENUSAE
[12] GAVELINELLA SP.
[13] VAGINULINA? SP.
[14] PRAEBULIMINA AFF. CARSEYAE
[15] EOEPONIDELLA STROMBODES
[16] QUADRIMORPHINA CF. CAMERATA
[17] QUADRIMORPHINA CF. SPIRALIS
[18] TROCHAMMINA ALBERTENSIS
[19] TROCHAMMINA CF. WHITTINGTONI
[20] TROCHAMMINA STEPHANSSONI
[21] EOEPONIDELLA LINKI
[22] TROCHAMMINA SPP.
[23] ARENACEOUS SPP.
[24] CYCLAMMINA SP. S
[25] ANOMALINOIDES PINGUIS
[26] HAPLOPHRAGMOIDES BONANZAENSIS
[27] NONIONELLA TAYLORENSIS
[28] EOEPONIDELLA CF. STROMBODES
[29] HAPLOPHRAGMIUM? SP.
[30] SACCAMMINA LATHRAMI
[31] TROCHAMMINA CF. RIBSTONENSIS
[32] TROCHAMMINA RIBSTONENSIS
[33] TROCHAMMINA WHITTINGTONI
[34] VERNEUILINOIDES? SP.
[35] TROCHAMMINA RUTHERFORDI
[36] TROCHAMMINOIDES SP.
[37] PSEUDOBOLIVINA? SP.
[38] VERNEUILINOIDES FISCHERI
[39] HYPERAMMINOIDES CF. BARKSDALEI
[40] TROCHAMMINA UMIATENSIS
[41] TROCHAMMINA MCMURRAYENSIS
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[43] AMMOBACULITES ERECTUS
[44] CONORBOIDES UMIATENSIS
[45] GLOMOSPIRELLA ARCTICA
[46] HAPLOPHRAGMOIDES DUOFLATIS
[47] HAPLOPHRAGMOIDES CORONIS
[48] RECTOGLANDULINA NETRONA
[49] TROCHAMMINA CONICOMINUTA
[50] HAPLOPHRAGMOIDES INFLATIGRANDIS
[51] GLOBULINA CANADENSIS
[52] LENTICULINA MUENSTERI
[53] OOLINA APICULATA
[54] GAUDRYINA MILLERI
[55] AMMOBACULITES REOPHACOIDES
[56] TROCHAMMINA SQUAMATA
[57] SARACENARIA PROJECTURA
[58] BATHYSIPHON GRANULOCOELIA
[59] AMMODISCUS MACKENZIENSIS
[60] HAPLOPHRAGMOIDES GOODENOUGHENSIS
[61] GAUDRYINA LEFFINGWELLI
[62] GLOMOSPIRA SUBARCTICA
[63] PSEUDOBOLIVINA SP.
[64] GLOMOSPIRELLA SP. S
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[68] AMMOBACULITES ALASKENSIS
[69] HAPLOPHRAGMOIDES CANUI
[70] HAPLOPHRAGMOIDES SPP.
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[75] EOGUTTULINA METENSIS
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[77] AMMOBACULITES BARROWENSIS
[78] NODOSARIA PHOBYTICA
[79] GLOMOSPIRA PATTONI
[80] REOPHAX SUEVICA
[81] NODOSARIA DETRUNCATA
[82] AMMODISCUS ORBIS
[83] AMMODISCUS CHERADOSPIRUS
[84] DENTALINA ECTADIA
[85] DENTALINA SP.
[86] RECURVOIDES TURBINATUS
[87] GAUDRYINA TOPAGORUKENSIS
[88] NODOSARIA SP.
[89] RECTOGLANDULINA BRANDI
[90] BATHYSIPHON ANOMALOCOELIA
[91] VAGINULINA SP.
[92] TROCHAMMINA INSTOWENSIS
[93] AMMODISCUS SILICEUS
[94] QUINQUELOCULINA SP. (SMALL)
[95] NODOSARIA SHUBLIKENSIS
[96] NODOSARIA LARINA
[97] LINGULINA ALASKENSIS
[98] ASTACOLUS CONNUDATUS
[99] TROCHAMMINA HELICTA
[100] MARGINULINA PRISCA
[101] FRONDICULARIA CF. LUSTRATA
[102] TROCHAMMINA CF. SABLEI
[103] AMMOBACULITES CF. VETUSTA
[104] AMMODISCUS SP. P
[105] LENTICULINA WISNIOWSKII
[106] BARREN OF FORAMINIFERA

RADS.

[107] DICTYOMITRA SPP.
[108] CENOSPHAERA SPP.
[109] SPONGODISCUS SPP.
[110] ARCHICORYS SP.
[111] ZONODISCUS SP. B
[112] LITHOCAMPE? SP.
[113] SETHOCYRTIS SP.
[114] LITHOCAMPE SP. N
[115] CENOSPHAERA SPP. (PYRITIZED)
[116] SPONGODISCUS SP. (PYRITIZED)
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MISC.

[118] MEGASPORES
[119] SHELL FRAGMENTS
[120] OSTRACODS
[121] INOCERAMUS PRISMS
[122] FISHBONE FRAGMENTS
[123] FISH DEBRIS
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[126] MONOTIS/HALOBIA FRAGMENTS
[127] OSTRACODS (MEDIUM-LARGE- SMOOTH)
[128] ECHINOID SPINES

ROCKS, MINS., ETC.

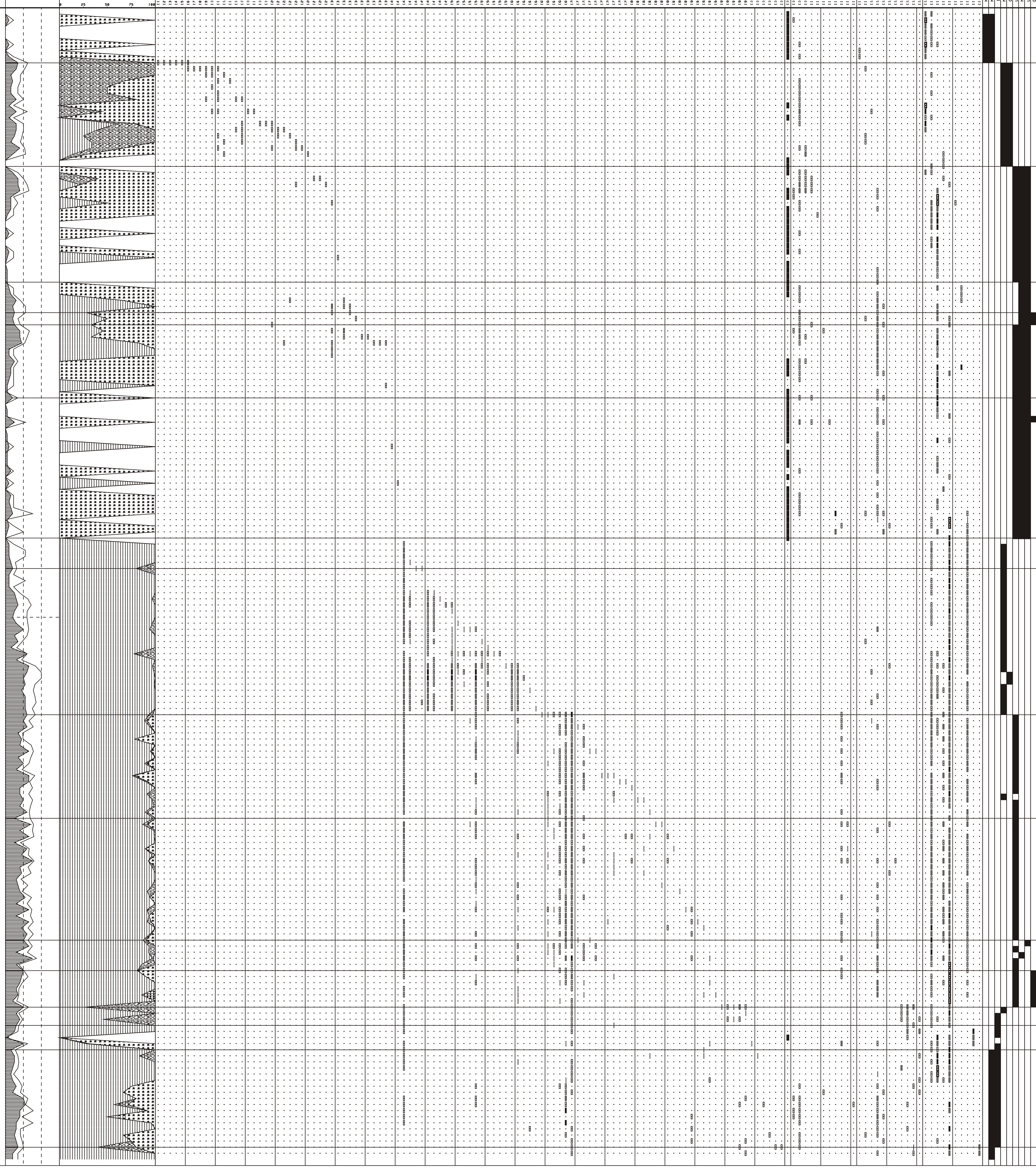
[129] COAL
[130] PYRITE
[131] TAR
[132] PYRITE STICKS
[133] PAPER SHALE
[134] TAN "SPORBO"
[135] PYRITE OBLATES
[136] ROUNDED FROSTED QUARTZ FLOATERS
[137] DARK GRAY TO BLACK SDST-SIZE CHERT PEBBLES
[138] GLAUCONITE

PALEOENVIRONMENTS

Nonmarine, Marginal Marine, Inner Neritic, Middle Neritic, Outer Neritic, Upper Bathyal, Middle Bathyal, Lower Bathyal, Distal

FAUNAL DIVERSITY (FILLED) — 0, 10, 20, 30
TOTAL FAUNA — 0.8, 10, 100, 1000, 5000

CUMULATIVE FAUNAL PLOT (%) — 0, 25, 50, 75, 100
- TOTAL AGGLUTINATED
- TOTAL CALC BENTHICS
- TOTAL PORCELLANEOUS
- TOTAL PLANKTICS
- TOTAL RADIOLARIA



AGE	STAGE	ZONE
LATE CRET. TO TERTIARY	UNDIFF.	UNDIFF.
LATE CRETACEOUS	CAMPANIAN TO MAESTRICHTIAN	F-5
	CONIACIAN TO SANTONIAN	F-6 TO F-5
	TURON. TO CONIAC.	F-6
	PROB. CENOM.	PROB. F-7/8
EARLY TO LATE CRETACEOUS	LATE ALBIAN TO CENOMANIAN	F-8
EARLY CRETACEOUS	PROBABLE ALBIAN	PROBABLE F-11 TO F-9
	HAUTER.	F-13a
	VALANGINIAN	F-13b
LATE JURASSIC	KIMMERIDGIAN	F-16a
	OXFORDIAN	F-16b
EARLY JURASSIC	TOARC.	F-18a
	PLIENSB.	F-18b
LATE TRIASSIC	NORIAN	F-19b
	PROBABLE CARNIAN	PROBABLE F-19c
EARLY TRIASSIC	UNDIFFERENTIATED	F-20a
PROB. LATE PERMIAN	UNDIF.	PROB. F-20b

SAMPLE DEPTH (FEET)	WASHED LITHOLOGY DESCRIPTION
80-160	WASHED LITHOLOGY NOT AVAILABLE
160-250	
250-340	
340-430	
430-520	
520-610	
610-700	
700-790	
790-880	
880-970	
970-1060	
1060-1150	
1150-1240	
1240-1330	
1330-1420	
1420-1510	
1510-1600	
1600-1690	
1690-1780	
1780-1870	
1870-1960	
1960-2050	
2050-2140	
2140-2230	
2230-2320	
2320-2410	
2410-2500	
2500-2590	
2590-2680	
2680-2770	
2770-2860	
2860-2950	
2950-3040	
3040-3130	
3130-3220	
3220-3310	
3310-3400	
3400-3490	
3490-3580	
3580-3670	
3670-3760	WASHED LITHOLOGY NOT AVAILABLE
3760-3850	
3850-3940	
3940-4030	
4030-4120	
4120-4210	
4210-4300	
4300-4390	
4390-4480	
4480-4570	
4570-4660	
4660-4750	
4750-4840	
4840-4930	
4930-5020	
5020-5120	
5120-5220	
5220-5320	
5320-5420	
5420-5520	
5520-5620	
5620-5720	
5720-5820	
5820-5920	
5920-6020	
6020-6120	
6120-6220	
6220-6320	
6320-6420	
6420-6520	
6520-6620	
6620-6720	
6720-6820	
6820-6920	
6920-7020	
7020-7110	
7110-7200	
7200-7290	
7290-7380	
7380-7470	
7470-7560	
7560-7650	WASHED LITHOLOGY NOT AVAILABLE
7650-7740	
7700-7730	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SANDY PAPER SHALE
7730-7760	DARK GRAY TO BLACK PAPER SHALE
7740-7830	
7760-7790	DARK GRAY TO BLACK SILTSTONE OR SILTY SHALE
7790-7820	DARK GRAY SILTSTONE OR SILTY SHALE
7820-7850	DARK GRAY TO BLACK SHALE
7850-7880	DARK GRAY SILTSTONE OR SILTY SHALE
7880-7910	DARK GRAY TO BLACK SLIGHTLY SILTY SHALE
7910-7940	DARK GRAY TO BLACK SHALE
7940-7970	DARK BROWNISH-GRAY TO BLACK SHALE
7970-8000	DARK GRAY TO BLACK SHALE
8000-8030	DARK GRAY TO BLACK SHALE
8030-8060	DARK GRAY TO BLACK SHALE
8060-8090	DARK GRAY TO BLACK SHALE
8090-8120	DARK GRAY TO BLACK SILTY SHALE
8120-8150	DARK GRAY TO BLACK SHALE
8150-8180	DARK GRAY TO BLACK SHALE
8180-8210	DARK BROWNISH-GRAY TO BLACK SHALE
8210-8240	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
8240-8270	DARK BROWNISH-GRAY TO BLACK SHALE
8270-8300	DARK BROWNISH-GRAY TO BLACK SHALE
8300-8330	DARK BROWNISH-GRAY TO BLACK SHALE
8330-8360	DARK BROWNISH-GRAY TO BLACK SILTY SHALE
8360-8390	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
8390-8420	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
8420-8450	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
8450-8480	DARK BROWNISH-GRAY TO BLACK SHALE
8480-8510	DARK BROWNISH-GRAY TO BLACK SHALE
8510-8540	DARK BROWNISH-GRAY TO BLACK SHALE
8540-8570	DARK BROWNISH-GRAY TO BLACK SHALE
8570-8600	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SANDY SHALE
8600-8630	DARK BROWNISH-GRAY TO BLACK SHALE
8630-8660	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
8660-8690	DARK BROWNISH-GRAY TO BLACK SHALE
8690-8720	DARK BROWNISH-GRAY TO BLACK SILTY SHALE
8720-8750	DARK BROWNISH-GRAY TO BLACK SILTY SHALE
8750-8780	DARK BROWNISH-GRAY TO BLACK SILTY SHALE
8780-8810	DARK BROWNISH-GRAY SILTSTONE OR SILTY SHALE
8810-8840	DARK BROWNISH-GRAY VERY FINE GRAINED SDST OR SILTSTONE
8840-8870	DARK BROWNISH-GRAY SILTSTONE OR SILTY SHALE
8870-8900	DARK BROWNISH-GRAY SILTSTONE OR SILTY SHALE
8900-8930	DARK BROWNISH-GRAY TO BLACK SHALE
8930-8960	DARK BROWNISH-GRAY TO BLACK SILTY SHALE
8960-8990	DARK BROWNISH-GRAY TO BLACK SHALE
8990-9020	DARK BROWNISH-GRAY TO BLACK SHALE
9020-9050	DARK BROWNISH-GRAY TO BLACK SHALE
9050-9080	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9080-9110	DARK BROWNISH-GRAY TO BLACK SHALE
9110-9140	DARK BROWNISH-GRAY TO BLACK SHALE
9140-9170	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9170-9200	DARK BROWNISH-GRAY TO BLACK SHALE
9200-9230	DARK BROWNISH-GRAY TO BLACK SHALE
9230-9260	DARK BROWNISH-GRAY TO BLACK SHALE
9260-9290	DARK BROWNISH-GRAY TO BLACK SHALE
9290-9320	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9320-9350	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9350-9380	DARK BROWNISH-GRAY TO BLACK SHALE
9380-9410	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9410-9440	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9440-9470	DARK BROWNISH-GRAY TO BLACK SHALE
9470-9500	DARK BROWNISH-GRAY TO BLACK SHALE
9500-9530	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9530-9560	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9560-9590	DARK BROWNISH-GRAY TO BLACK SHALE
9590-9620	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9620-9650	DARK BROWNISH-GRAY TO BLACK SHALE
9650-9680	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9680-9710	DARK BROWNISH-GRAY TO BLACK SILTY SHALE
9710-9740	DARK BROWNISH-GRAY TO BLACK SHALE
9740-9770	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9770-9800	DARK GRAY TO BLACK SHALE
9800-9830	DARK BROWNISH-GRAY TO BLACK SLIGHTLY SILTY SHALE
9830-9860	DARK BROWNISH-GRAY TO BLACK SHALE
9860-9890	DARK GRAY TO BLACK PAPER SHALE
9890-9920	DARK GRAY TO BLACK PAPER SHALE
9920-9950	DARK GRAY TO BLACK PAPER SHALE
9950-9980	DARK GRAY TO BLACK PAPER SHALE
9980-10010	DARK GRAY TO BLACK PAPER SHALE
10010-10040	DARK GRAY TO BLACK PAPER SHALE
10040-10070	DARK GRAY TO BLACK PAPER SHALE
10070-10100	DARK GRAY TO BLACK SLIGHTLY SHELLY SHALE
10100-10130	DARK GRAY TO BLACK SHALE
10130-10160	BLACK SHALE-WHITE LIMESTONE & DARK GRAY PEBLY SILTSTONE
10160-10190	BLACK SHALE-WHITE LIMESTONE & DARK GRAY PEBLY SILTSTONE
10190-10220	DARK GRAY TO BLACK PEBBLY SILTSTONE
10220-10250	DARK GRAY TO BLACK PEBBLY SILTSTONE & SHALE
10250-10280	DARK GRAY TO BLACK PEBBLY SILTSTONE & SHALE
10280-10310	DARK GRAY TO BLACK SHALE
10310-10340	DARK GRAY TO BLACK SHALE
10340-10370	DARK GRAY TO BLACK SHALE
10370-10400	BUFF TAN TO WHITE VERY FINE GRAINED QUARTZITIC SDST
10400-10430	BUFF TAN TO WHITE VERY FINE GRAINED QUARTZITIC SDST
10430-10450	BUFF TAN TO WHITE VF TO F GRAINED QUARTZITIC SDST
10450-10530	
10530-10620	WASHED LITHOLOGY NOT AVAILABLE
10620-10710	
10710-10800	
10800-10890	
10890-10980	
10980-11070	WASHED LITHOLOGY NOT AVAILABLE
11070-11160	
11160-11250	
11250-11340	
11340-11430	
11430-11520	WASHED LITHOLOGY NOT AVAILABLE