FIGURE F-2

HIGH RESOLUTION FORAMINIFERA DISTRIBUTION CHART

WELL NAME	:AMOCO CATHEDRAL RIVER UNIT NO.1	API NUMBER	:50-093-20001	KELLY BUSHING	:178 FEET
PROJECT	:NORTH ALEUTIAN BASIN BIOSTRATIGRAPHY PROJECT	LOCATION	:SEC. 29, T51S/R83W SM	BASIN	:NORTH ALEUTIAN
PALEONTOLOGIST	:MICHAEL B. MICKEY	TOTAL DEPTH	:14,301 FEET	STATE	:ALASKA

DATE :JUNE 2005
PROJECT :25-104

SPECIES LOCATION INDEX

[9] AMMOBACULITES COBBANI
[51] AMMOBACULITES SP.
[38] AMMOBACULITES VETUSTA
[24] AMMODISCUS CF. FRANCISI
[28] AMMODISCUS CF. ORBIS
[40] AMMODISCUS SILICEA
[12] ARENACEOUS SPP.
[18] ASTACOLUS CF. AGALMATUS
[34] ASTACOLUS CF. DUBIUS
[42] ASTACOLUS PETALUS
[5] ASTACOLUS SPP.
[52] BARREN OF FORAMINIFERA
[31] BATHYSIPHON ANOMALOCOELIA
[4] BATHYSIPHON SPP.
[95] BLACK CHERT PEBBLES
[60] CENOSPHAERA SP. A
[54] CENOSPHAERA SPP.
[21] CITHARINA SP.
[94] COAL
[68] CRUCELLA CF. SP. B
[74] CRUCELLA SP. A
[73] CRUCELLA SP. B
[70] CRYTOCAPSA SP. A
[65] CYRTOCAPSA CF. SP. C
[63] CYRTOCAPSA SP. B
[79] CYRTOCAPSA SP. C
[64] CYRTOCAPSA SPP.
[92] DARWINULA OBLONGA
[88] DENTALIUM ? SP.
[67] DICTYOMITRA CF. SP. B
[53] DICTYOMITRA SP. A
[59] DICTYOMITRA SP. B
[57] DICTYOMITRA SPP.
[84] DITRUPA CORNU?
[89] ECHINOID SPINES
[26] EPISTOMINA ? SP.
[87] GASTROPODS
[50] GAUDRYINA CF. LEFFINGWELLI
[47] GAUDRYINA DYSCRITA
[17] GAUDRYINA SPP.
[46] GAUDRYINELLA IRREGULARIS
[99] GILSONITE
[11] GLOBULINA ? SP.
[29] GUTTULINA SPP.
[103] GYPSUM
[100] GYPSUM ? ROSETTES
[20] HAPLOPHRAGMOIDES CF. CANUI
[6] HAPLOPHRAGMOIDES CF. LINKI
[3] HAPLOPHRAGMOIDES SPP.
[86] INOCERAMUS PRISMS
[96] L. C. M.
[10] LENTICULINA AUDAX
[35] LENTICULINA CF. EXCAVATA
[37] LENTICULINA QUENSTEDTI
[19] LENTICULINA SPP.
[16] LENTINCULINA (DARBYELLA) CF. ERVIEI
[58] LITHOCAMPE CF. SP. A
[80] LITHOCAMPE SP. A
[77] LITHOCAMPE SP. D
[61] LITHOCAMPE SPP.
[43] LITUOTUBA IRREGULARIS
[30] MARGINULINOPSIS PHRAGMITES
[23] MILIAMMINA SP.
[91] MONOCERATINA ? SP.
[90] MONOCERATINA CF. STRIATA
[27] NODOSARIA SP.
[85] OSTRACODS
[76] PATULIBRACCHIUM SP.
[78] PATULIBRACCHIUM SP. A
[83] PELMATOZOAN FRAGMENTS
[93] PYRITE
[25] REINHOLDELLA ? (CONORBOIDES) CF. HOFKERI
[39] REOPHAX SP.
[62] RHOPALASTRUM SP. A
[75] RHOPALASTRUM SP. B
[69] RHOPALASTRUM SPP.
[98] ROUNDED FROSTED QUARTZ GRAINS
[1] SARACENARIA CF. PROJECTURA
[7] SARACENARIA SPP.
[82] SHELL FRAGMENTS
[101] SHINY BLACK SPHERES
[44] SPIROPLECTAMMINA SP.
[56] SPONGODISCUS SPP.
[72] SPONGOLONCHE CF. SP. B
[66] SPONGOLONCHE SPP.
[55] SPONGURUS SPP.
[81] STICHOMITRA SP. A
[71] STICHOMITRA SPP.
[102] TAR
[48] TEXTULARIA AREOPLECTA
[22] THURAMMINOIDES SP.
[2] TROCHAMMINA INSTOWENSIS
[45] TROCHAMMINA CANNINGENSIS
[41] TROCHAMMINA CF. CANNINGENSIS
[13] TROCHAMMINA CF. GRYCI
[49] TROCHAMMINA SP. (SMALL- HIGH SPIRED)
[36] TROCHAMMINA TOPAGORUKENSIS
[33] TROCHAMMINOIDES CF. PROTEUS
[32] TROCHAMMINOIDES SP. (MEDIUM- THIN)
[14] TROCHAMMINOIDES SP. (SMALL- THIN)
[8] VAGINULINA ? CF. SP. A OF WALL
[15] VAGINULINOPSIS CF. ERITHELES
[97] WELL CEMENT

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

FAUNAL DIVERSITY (FILLED) 0 5 10 15 20

TOTAL FAUNA 0.8 10 100 1000

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

FORAMINIFERA

[1] SARACENARIA CF. PROJECTURA
[2] TROCHAMMINA INSTOWENSIS
[3] HAPLOPHRAGMOIDES SPP.
[4] BATHYSIPHON SPP.
[5] ASTACOLUS SPP.
[6] HAPLOPHRAGMOIDES CF. LINKI
[7] SARACENARIA SPP.
[8] VAGINULINA ? CF. SP. A OF WALL
[9] AMMOBACULITES COBBANI
[10] LENTICULINA AUDAX
[11] GLOBULINA ? SP.
[12] ARENACEOUS SPP.
[13] TROCHAMMINA CF. GRYCI
[14] TROCHAMMINOIDES SP. (SMALL- THIN)
[15] VAGINULINOPSIS CF. ERITHELES
[16] LENTINCULINA (DARBYELLA) CF. ERVIEI
[17] GAUDRYINA SPP.
[18] ASTACOLUS CF. AGALMATUS
[19] LENTICULINA SPP.
[20] HAPLOPHRAGMOIDES CF. CANUI
[21] CITHARINA SP.
[22] THURAMMINOIDES SP.
[23] MILIAMMINA SP.
[24] AMMODISCUS CF. FRANCISI
[25] REINHOLDELLA ? (CONORBOIDES) CF. HOFKERI
[26] EPISTOMINA ? SP.
[27] NODOSARIA SP.
[28] AMMODISCUS CF. ORBIS
[29] GUTTULINA SPP.
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[45] TROCHAMMINA CANNINGENSIS
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[49] TROCHAMMINA SP. (SMALL- HIGH SPIRED)
[50] GAUDRYINA CF. LEFFINGWELLI
[51] AMMOBACULITES SP.
[52] BARREN OF FORAMINIFERA

RADIOLARIA

[53] DICTYOMITRA SP. A
[54] CENOSPHAERA SPP.
[55] SPONGURUS SPP.
[56] SPONGODISCUS SPP.
[57] DICTYOMITRA SPP.
[58] LITHOCAMPE CF. SP. A
[59] DICTYOMITRA SP. B
[60] CENOSPHAERA SP. A
[61] LITHOCAMPE SPP.
[62] RHOPALASTRUM SP. A
[63] CYRTOCAPSA SP. B
[64] CYRTOCAPSA SPP.
[65] CYRTOCAPSA CF. SP. C
[66] SPONGOLONCHE SPP.
[67] DICTYOMITRA CF. SP. B
[68] CRUCELLA CF. SP. B
[69] RHOPALASTRUM SPP.
[70] CRYTOCAPSA SP. A
[71] STICHOMITRA SPP.
[72] SPONGOLONCHE CF. SP. B
[73] CRUCELLA SP. B
[74] CRUCELLA SP. A
[75] RHOPALASTRUM SP. B
[76] PATULIBRACCHIUM SPP.
[77] LITHOCAMPE SP. D
[78] PATULIBRACCHIUM SP. A
[79] CYRTOCAPSA SP. C
[80] LITHOCAMPE SP. A
[81] STICHOMITRA SP. A

MISC.

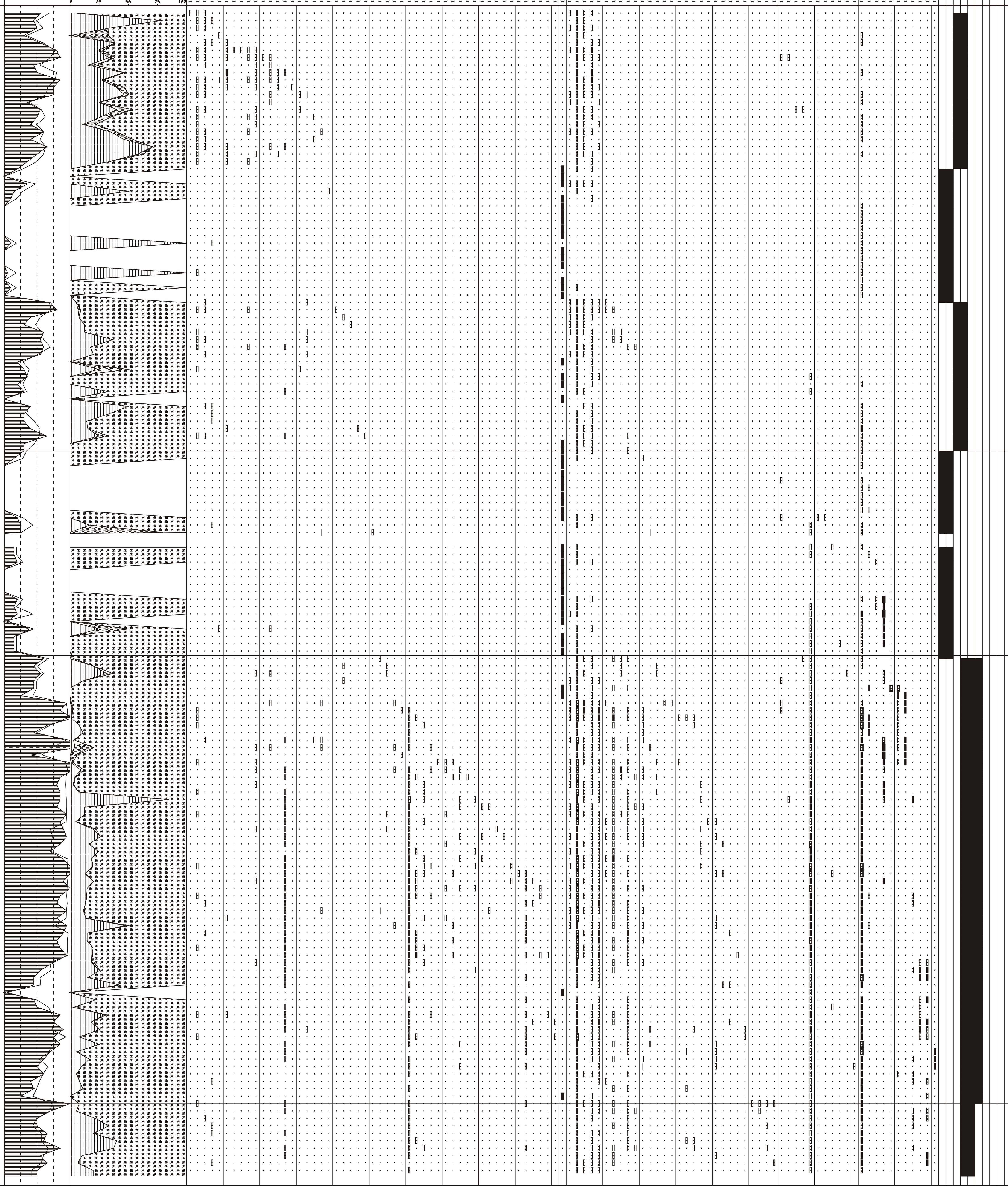
[82] SHELL FRAGMENTS
[83] PELMATOZOAN FRAGMENTS
[84] DITRUPA CORNU?
[85] OSTRACODS
[86] INOCERAMUS PRISMS
[87] GASTROPODS
[88] DENTALIUM ? SP.
[89] ECHINOID SPINES
[90] MONOCERATINA CF. STRIATA
[91] MONOCERATINA ? SP.
[92] DARWINULA OBLONGA

ROCKS, MINS., ETC.

[93] PYRITE
[94] COAL
[95] BLACK CHERT PEBBLES
[96] L. C. M.
[97] WELL CEMENT
[98] ROUNDED FROSTED QUARTZ GRAINS
[99] GILSONITE
[100] GYPSUM ? ROSETTES
[101] SHINY BLACK SPHERES
[102] TAR
[103] GYPSUM

PALEOENVIRONMENTS

Nonmarine, Marginal Marine, Inner Neritic, Middle Neritic, Outer Neritic, Upper Bathyal, Middle Bathyal, Lower Bathyal, Distal, Marine (Undiff.)



AGE / STAGE/ZONE

- LATE JURASSIC — OXFORDIAN TO TITHONIAN — RAD ZONULE 1 (100-170 to 5330-5400)
- INDETERMINATE — INDETERMINATE — INDETERMINATE (Possible Chisik Cgl. Mbr. or equiv.) (5420-5490 to 8100-8170)
- EARLY TO MIDDLE JURASSIC — PLIENSBACHIAN TO CALLOVIAN — RAD ZONULE 2 (8190-8260 to 13310-13380)
- EARLY TO MIDDLE JURASSIC — SINEMURIAN? TO PLIENSBACHIAN? — RAD ZONULE 3? (13390-13480 to 14210-14280)

SAMPLE DEPTH (FEET)	WASHED LITHOLOGY DESCRIPTION
100 170	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
190-270	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
290-360	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
380-450	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
460-540	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
550-630	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
640-720	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
730-810	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
820-890	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
910-990	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
1000-1070	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
1090-1160	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
1180-1270	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
1290-1360	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
1380-1450	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
1460-1540	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
1550-1630	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
1640-1720	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
1730-1810	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
1820-1870	DARK GRAY SLIGHLTLY SILTY SILICEOUS SHALE
1910-1990	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
2000-2070	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
2090-2160	DARK GREENISH-GRAY SLIGHTLY SILTY SILICEOUS SHALE
2180-2250	DARK GRAY FINE TO MEDIUM GRAINED SANDSTONE
2260-2360	DARK GRAY FINE TO MEDIUM GRAINED SANDSTONE
2380-2430	MEDIUM GRAY TO WHITE FINE GRAINED SANDSTONE
2440-2520	MEDIUM GRAY TO WHITE FINE GRAINED SANDSTONE
2530-2610	MEDIUM GRAY TO WHITE FINE GRAINED SANDSTONE
2620-2700	LIGHT GRAY TO WHITE FINE GRAINED SANDSTONE
2710-2790	LIGHT GRAY TO WHITE FINE GRAINED SANDSTONE
2800-2870	LIGHT GRAY TO WHITE FINE GRAINED SANDSTONE
2890-2950	LIGHT GRAY TO WHITE FINE GRAINED SANDSTONE
2980-3070	LIGHT GRAY TO WHITE FINE TO MEDIUM GRAINED SANDSTONE
3090-3160	LIGHT GRAY TO WHITE FINE TO MEDIUM GRAINED SANDSTONE
3180-3250	LIGHT GRAY TO WHITE FINE TO MEDIUM GRAINED SANDSTONE
3260-3340	LIGHT GRAY TO WHITE FINE TO MEDIUM GRAINED SANDSTONE
3350-3410	LIGHT GRAY TO WHITE FINE GRAINED SANDSTONE
3440-3520	LIGHT GRAY TO WHITE FINE GRAINED SANDSTONE
3530-3610	LIGHT GRAY TO WHITE FINE TO MEDIUM GRAINED SANDSTONE
3630-3690	LIGHT GRAY TO WHITE FINE TO MEDIUM GRAINED SANDSTONE
3700-3770	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
3790-3860	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
3880-3970	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
3990-4060	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4080-4150	DARK GRAY TO BLACK SLIGHTLY SANDY SILICEOUS SHALE
4160-4240	DARK GRAY TO BLACK SLIGHTLY SANDY SILICEOUS SHALE
4250-4330	DARK GRAY TO BLACK SLIGHTLY SANDY SILICEOUS SHALE
4340-4420	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4430-4510	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4520-4600	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4610-4690	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4700-4770	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4790-4860	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4880-4950	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
4960-5040	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
5050-5130	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
5140-5220	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
5230-5310	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
5330-5400	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS SHALE
5420-5490	DARK GRAY TO BLACK SILICEOUS SILTSTONE OR SILTY SHALE
5510-5570	DARK GRAY TO BLACK SILICEOUS SILTSTONE OR SILTY SHALE
5600-5660	DARK GRAY TO BLACK VERY FINE TO FINE GRAINED OIL STAINED SDST
5690-5750	DARK GRAY TO BLACK VERY FINE TO FINE GRAINED OIL STAINED SDST
5770-5840	DARK GRAY TO BLACK VERY FINE TO FINE GRAINED OIL STAINED SDST
5860-5930	DARK GRAY TO BLACK FINE TO MEDIUM GRAINED COALY SANDSTONE
5950-6020	MEDIUM TO DARK GRAY FINE GRAINED SANDSTONE
6040-6110	MEDIUM TO DARK GRAY FINE GRAINED SANDSTONE
6130-6200	MEDIUM TO DARK GRAY FINE GRAINED SANDSTONE
6220-6290	DARK GRAY TO BLACK SILTY SILICEOUS SHALE OR SILTSTONE
6310-6370	DARK GRAY TO BLACK SILTY SILICEOUS SHALE OR SILTSTONE
6400-6460	DARK GRAY TO BLACK SILTY SILICEOUS SHALE OR SILTSTONE
SAMPLE GAP	SAMPLE GAP
7190-7260	DARK GRAY TO BLACK SILICEOUS SILTSTONE OR SILTY SHALE
7290-7360	DARK GRAY TO BLACK SILICEOUS SILTSTONE OR SILTY SHALE
7370-7450	DARK GREENISH-GRAY TO BLACK FINE GRAINED SILICEOUS SANDSTONE
7405-7410 C	DARK GREENISH-GRAY TAR STAINED PYRITIC SILICEOUS SILTSTONE
7410-7415 C	DARK GREENISH-GRAY TAR STAINED FINE GRAINED SILICEOUS SANDSTONE
7415-7420 C	DARK GREENISH-GRAY FINE GRAINED SILICEOUS SANDSTONE
7420-7425 C	DARK GREENISH-GRAY FINE GRAINED SILICEOUS SANDSTONE
7460-7540	DARK GREENISH-GRAY TO BLACK FINE GRAINED SILICEOUS SANDSTONE
7550-7630	DARK GRAY TO BLACK VERY FINE GRAINED SILICEOUS SDST OR SILTSTONE
7640-7730	DARK GRAY TO BLACK FINE GRAINED SILICEOUS SANDSTONE
7740-7820	DARK GRAY TO BLACK FINE GRAINED SILICEOUS SANDSTONE
7830-7910	DARK GRAY TO BLACK VERY FINE TO FINE GRAINED SILICEOUS SANDSTONE
7920-8000	DARK GRAY TO BLACK VERY FINE TO FINE GRAINED SILICEOUS SANDSTONE
8010-8080	DARK GRAY TO BLACK VERY FINE TO FINE GRAINED SILICEOUS SANDSTONE
8100-8170	DARK GRAY TO BLACK VERY FINE TO FINE GRAINED SILICEOUS SANDSTONE
8190-8260	DARK GRAY TO BLACK SILTY TAR STAINED SILICEOUS SHALE
8280-8350	DARK GRAY TO BLACK SILTY SILICEOUS SHALE
8360-8440	DARK GRAY TO BLACK SILTY SILICEOUS SHALE
8450-8530	DARK GRAY TO BLACK SILTY SILICEOUS SHALE
8540-8630	DARK GRAY TO BLACK SILTY TARY SILICEOUS INOCERAMUS PRISM SHALE
8640-8720	DARK GRAY-BLACK SILTY SANDY VERY TARY SILICEOUS INO. PRISM SHALE
8730-8800	DARK GRAY-BLACK SILTY SANDY VERY TARY SILICEOUS INO. PRISM SHALE
8830-8900	BLACK VERY TARY SILTY SILICEOUS INOCERAMUS PRISM SHALE
8920-8980	BLACK VERY TARY SILTY SILICEOUS INOCERAMUS PRISM SHALE
8990-9070	BLACK VERY TARY SILTY SILICEOUS INOCERAMUS PRISM SHALE
9080-9170	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
9180-9260	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
9270-9330	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
9360-9440	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
9440-9520	DARK GRAY TO BLACK SILTY SILICEOUS INOCERAMUS PRISM SHALE
9530-9620	DARK GRAY TO BLACK SILTY SILICEOUS INOCERAMUS PRISM SHALE
9630-9680	DARK GRAY TO BLACK SILTY SILICEOUS INOCERAMUS PRISM SHALE
9720-9800	DARK GRAY TO BLACK SILTY SILICEOUS INOCERAMUS PRISM SHALE
9820-9890	DARK GRAY TO BLACK SILTY SILICEOUS INOCERAMUS PRISM SHALE
9910-9960	DARK GRAY TO BLACK SILTY SILICEOUS INOCERAMUS PRISM SHALE
9980-10060	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
10070-10150	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
10160-10260	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
10260-10340	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
10350-10420	DARK GRAY TO BLACK SILTY SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
10430-10500	DARK GRAY TO BLACK SILTY SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
10520-10600	DARK GRAY TO BLACK SILTY SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
10620-10690	DARK GRAY TO BLACK SILTY SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
10710-10790	DARK GRAY TO BLACK SILTY SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
10810-10880	DARK GRAY TO BLACK SILTY, SANDY SILICEOUS INOCERAMUS PRISM SHALE
10890-10970	DARK GRAY-BLACK SLIGHTLY SANDY, SILTY SILICEOUS INO PRISM SHALE
10990-11050	DARK GRAY-BLACK SLIGHTLY SANDY, SILTY SILICEOUS INO PRISM SHALE
11060-11140	DARK GRAY-BLACK SLIGHTLY SANDY, SILTY SILICEOUS INO PRISM SHALE
11150-11240	DARK GRAY-BLACK SLIGHTLY SANDY, SILTY SILICEOUS INO PRISM SHALE
11250-11330	DARK GRAY-BLACK SLIGHTLY SANDY, SILTY SILICEOUS INO PRISM SHALE
11340-11400	DARK GRAY-BLACK SLIGHTLY SANDY, SILTY SILICEOUS INO PRISM SHALE
11430-11500	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS INO PRISM SHALE
11520-11600	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS INO PRISM SHALE
11620-11690	DARK GRAY TO BLACK SLIGHTLY SILTY SILICEOUS INO PRISM SHALE
11710-11760	DARK GRAY-BLACK SILTY, SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
11780-11860	DARK GRAY-BLACK SILTY, SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
11870-11960	DARK GRAY-BLACK SILTY, SLIGHTLY SANDY SILICEOUS INO PRISM SHALE
11970-12040	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12050-12130	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12100-12110	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12100-12110 C	BLACK SILICEOUS INOCERAMUS PRISM SHALE
12140-12230	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12240-12320	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12330-12410	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12420-12500	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12510-12580	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12590-12680	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12700-12770	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12780-12860	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12870-12940	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
12950-13040	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13050-13120	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13130-13220	BLACK SLIGHTLY SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13230-13300	MEDIUM TO DARK GRAY SLIGHTLY SILTY SILICEOUS OR CHERTY SHALE
13310-13380	MEDIUM TO DARK GRAY SLIGHTLY SILTY SILICEOUS OR CHERTY SHALE
13390-13480	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13490-13570	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13580-13650	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13660-13740	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13750-13840	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13850-13930	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
13940-14010	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
14020-14100	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
14120-14200	BLACK SILTY TARY SILICEOUS INCERAMUS PRISM SHALE
14210-14280	MEDIUM TO DARK GRAY SLIGHTLY SILTY SILICEOUS OR CHERTY SHALE