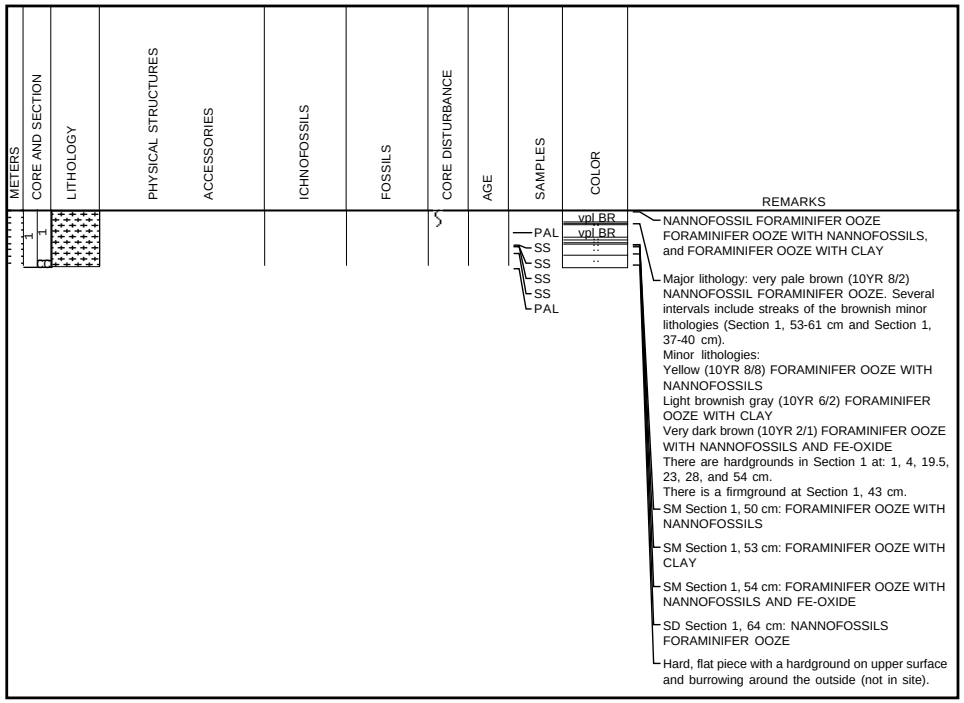
SITE 1052 HOLE A CORE 1X CORED 0.0-3.5 mbsf

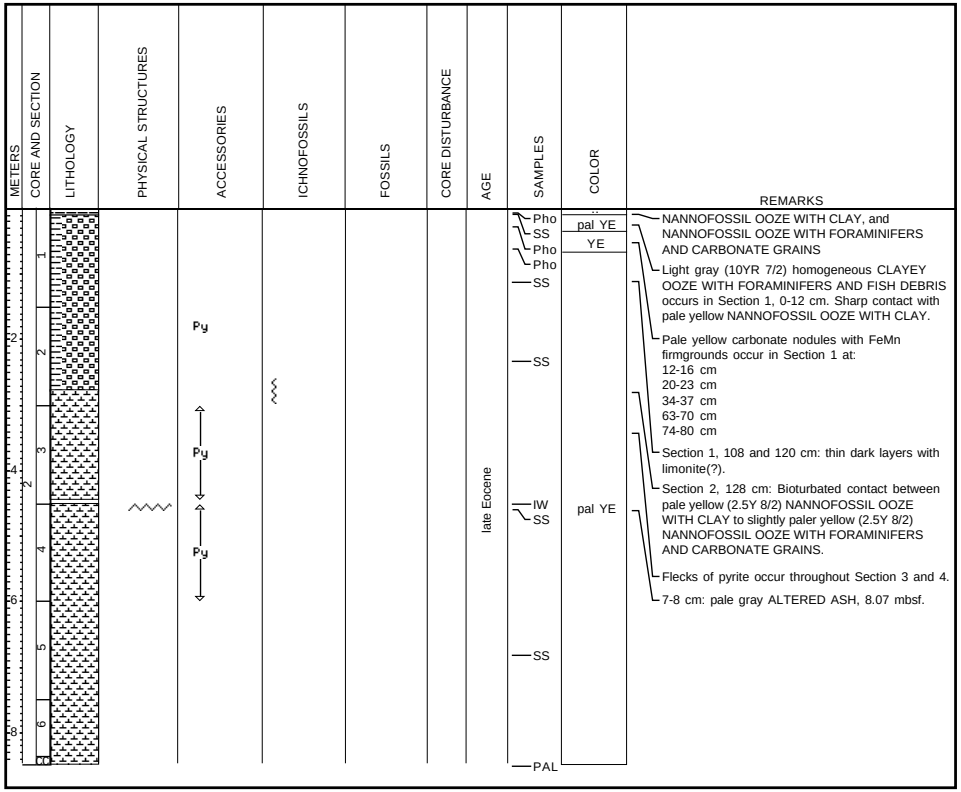
1052A-1X

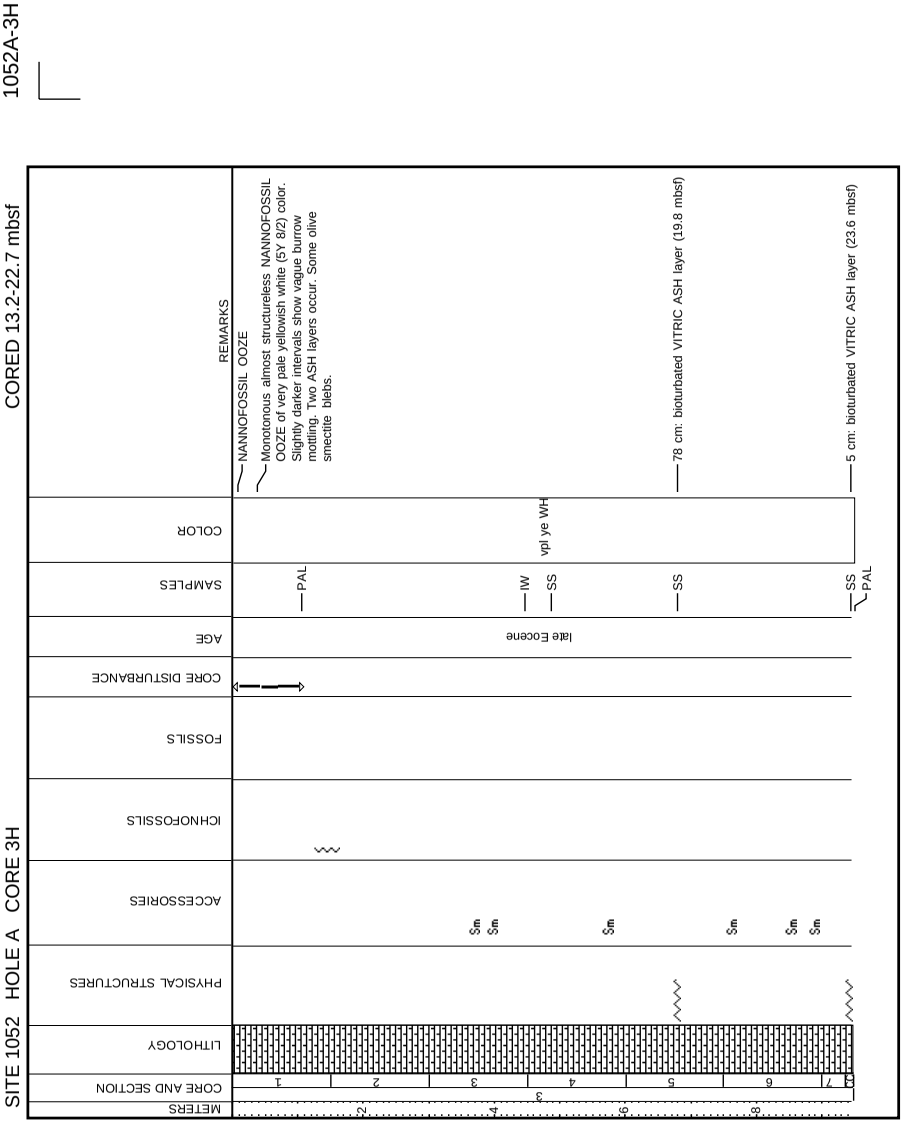


Prior Chapter Contents Next Chapter

SITE 1052 HOLE A CORE 2X CORED 3.5-13.2 mbsf

1052A-2X




1052A-3H
SITE 1052 HOLE A CORE 3H
CORED 13.2-22.7 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Eocene
PAL
IW
SS
vpl ye WH
NANNOFOSSIL OOZE
Monotonous almost structureless NANNOFOSSIL OOZE of very pale yellowish white (5Y 8/2) color. Slightly darker intervals show vague burrow mottling. Two ASH layers occur. Some olive smectite blebs.
78 cm: bioturbated VITRIC ASH layer (19.8 mbsf)
5 cm: bioturbated VITRIC ASH layer (23.6 mbsf)

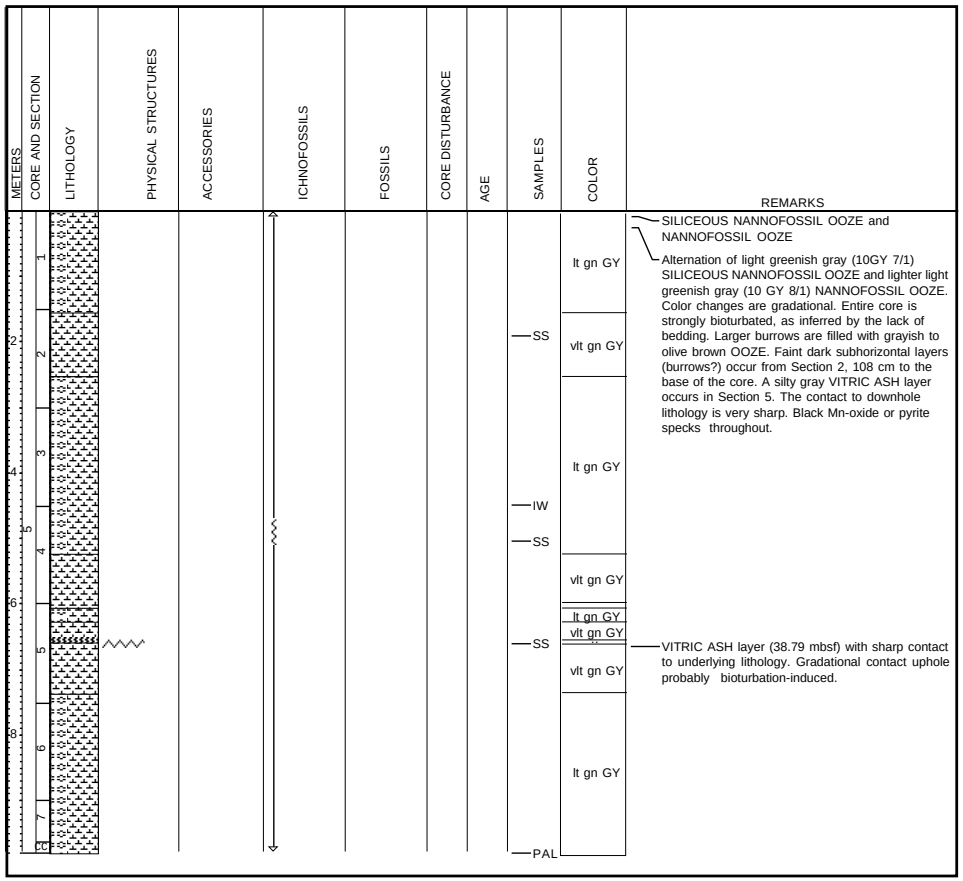
SITE 1052 HOLE A CORE 4H

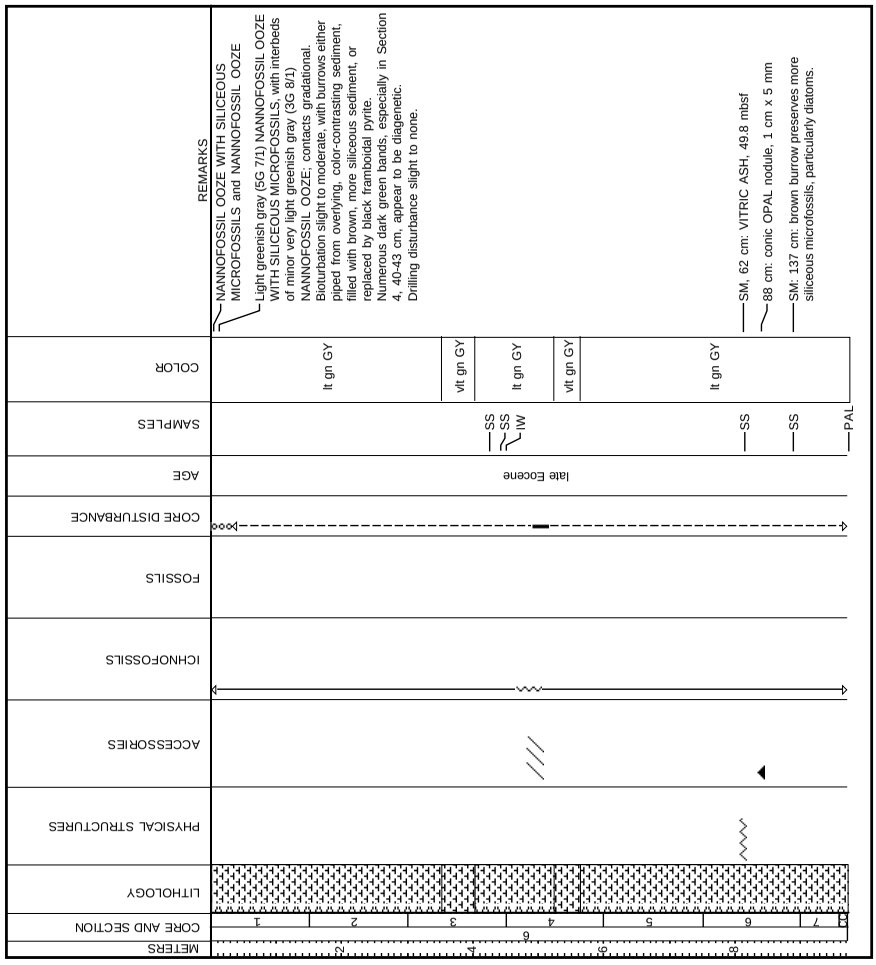
CORED 22.7-32.2 mbsf

1052A-4H

SITE 1052 HOLE A CORE 5H — CORED 32.2-41.7 mbsf

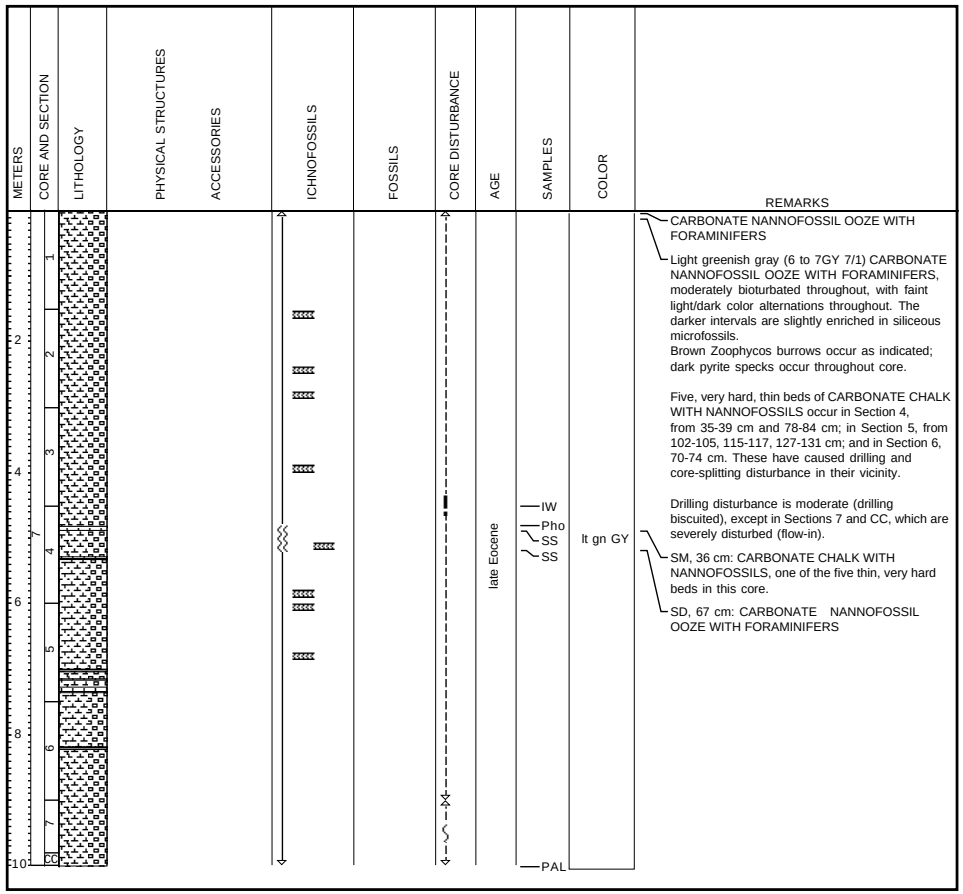
1052A-5H

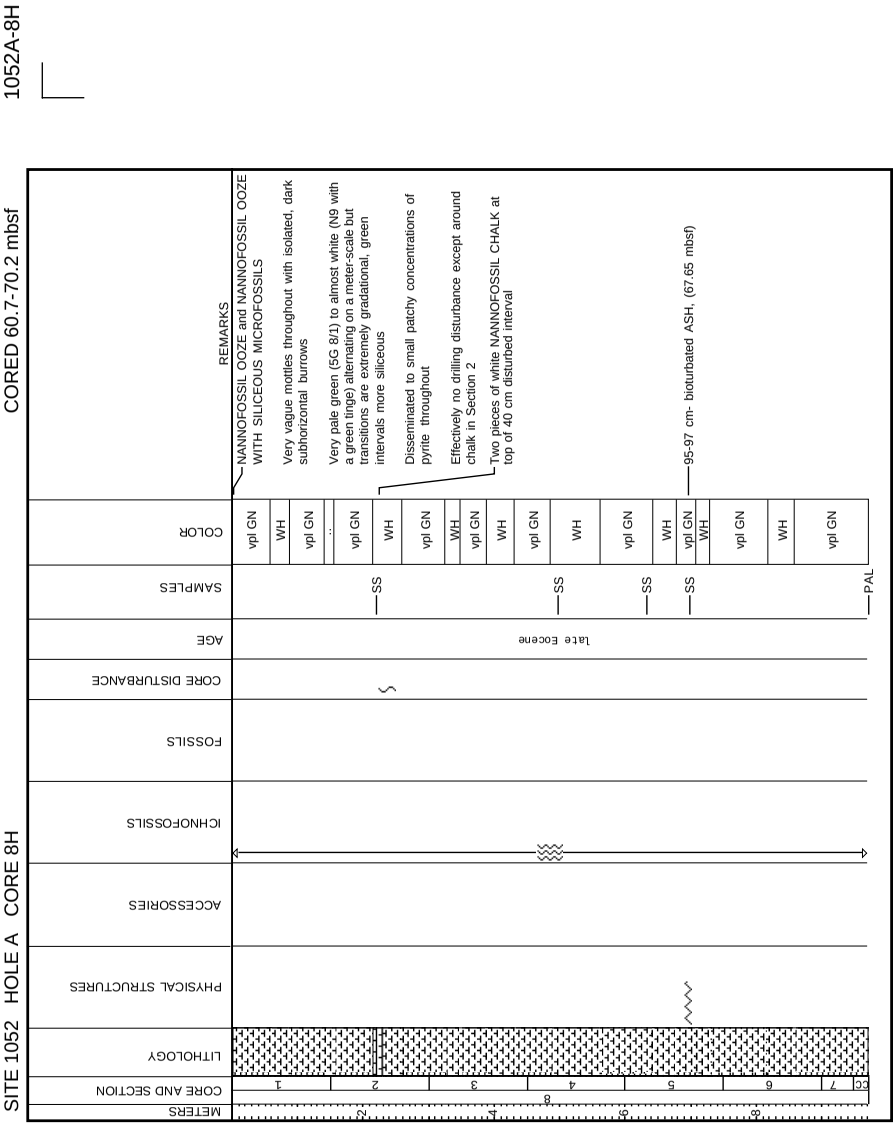



SITE 1052 HOLE A CORE 6H
CORED 41.7-51.2 mbsf
1052A-6H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Eocene
lt gn GY
vlt gn GY
lt gn GY
vlt gn GY
lt gn GY
SS
SS
IW
SS
SS
PAL
NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS and NANNOFOSSIL OOZE
Light greenish gray (5G 7/1) NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS, with interbeds of minor very light greenish gray (3G 8/1) NANNOFOSSIL OOZE; contacts gradational.
Bioturbation slight to moderate, with burrows either piped from overlying, color-contrasting sediment, filled with brown, more siliceous sediment, or replaced by black framboidal pyrite.
Numerous dark green bands, especially in Section 4, 40-43 cm, appear to be diagenetic.
Drilling disturbance slight to none.
SM, 62 cm: VITRIC ASH, 49.8 mbsf
88 cm: conic OPAL nodule, 1 cm x 5 mm
SM: 137 cm: brown burrow preserves more siliceous microfossils, particularly diatoms.

SITE 1052 HOLE A CORE 7H CORED 51.2-60.7 mbsf

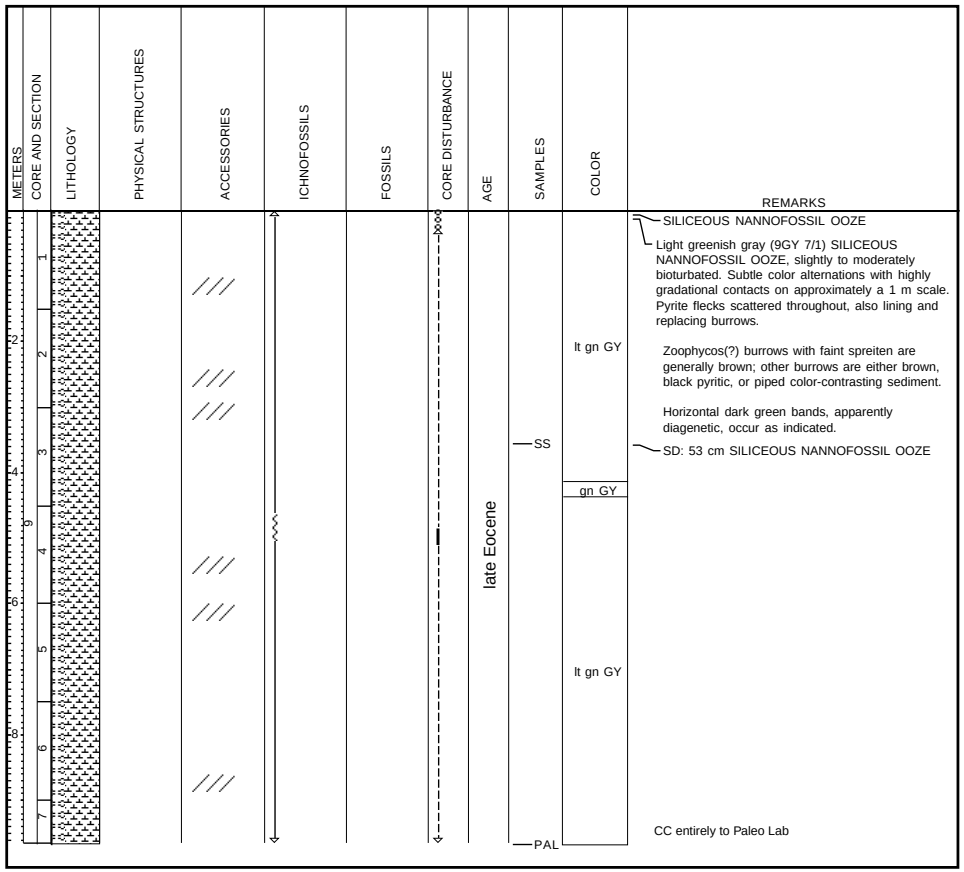
1052A-7H

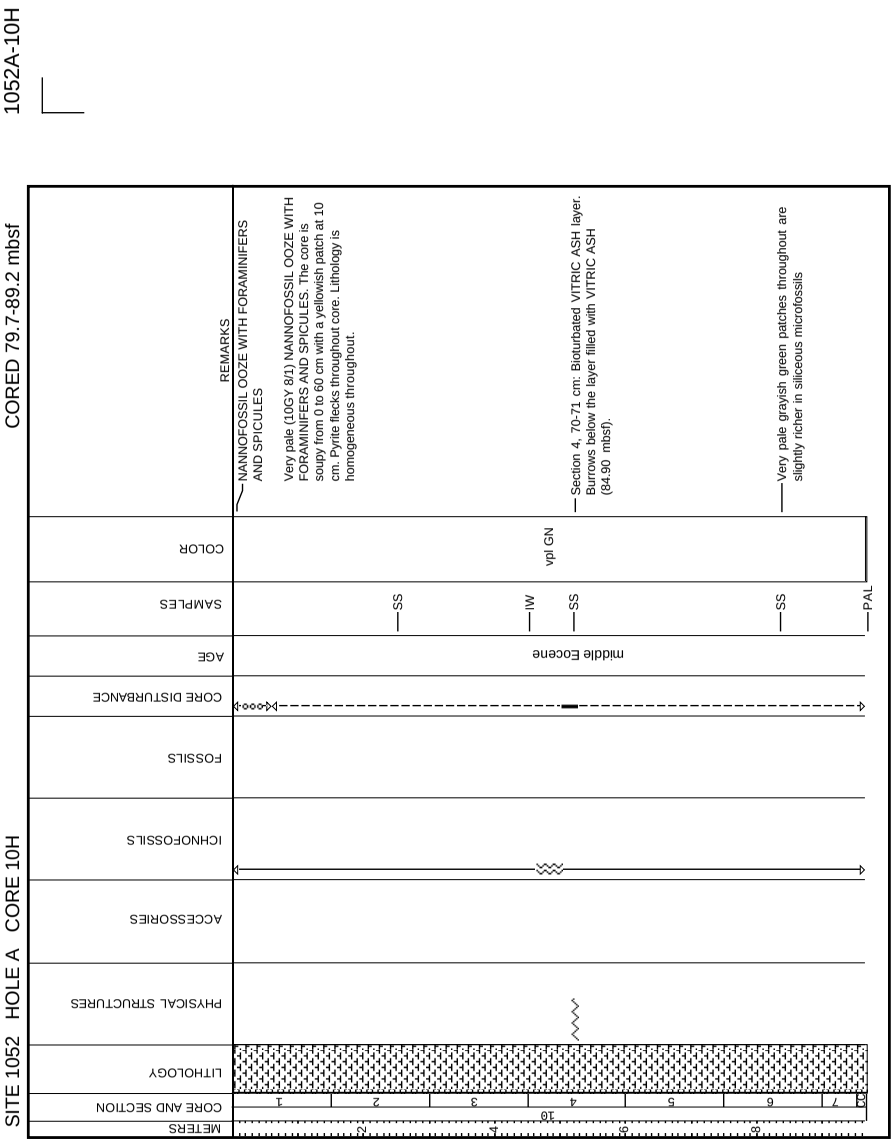


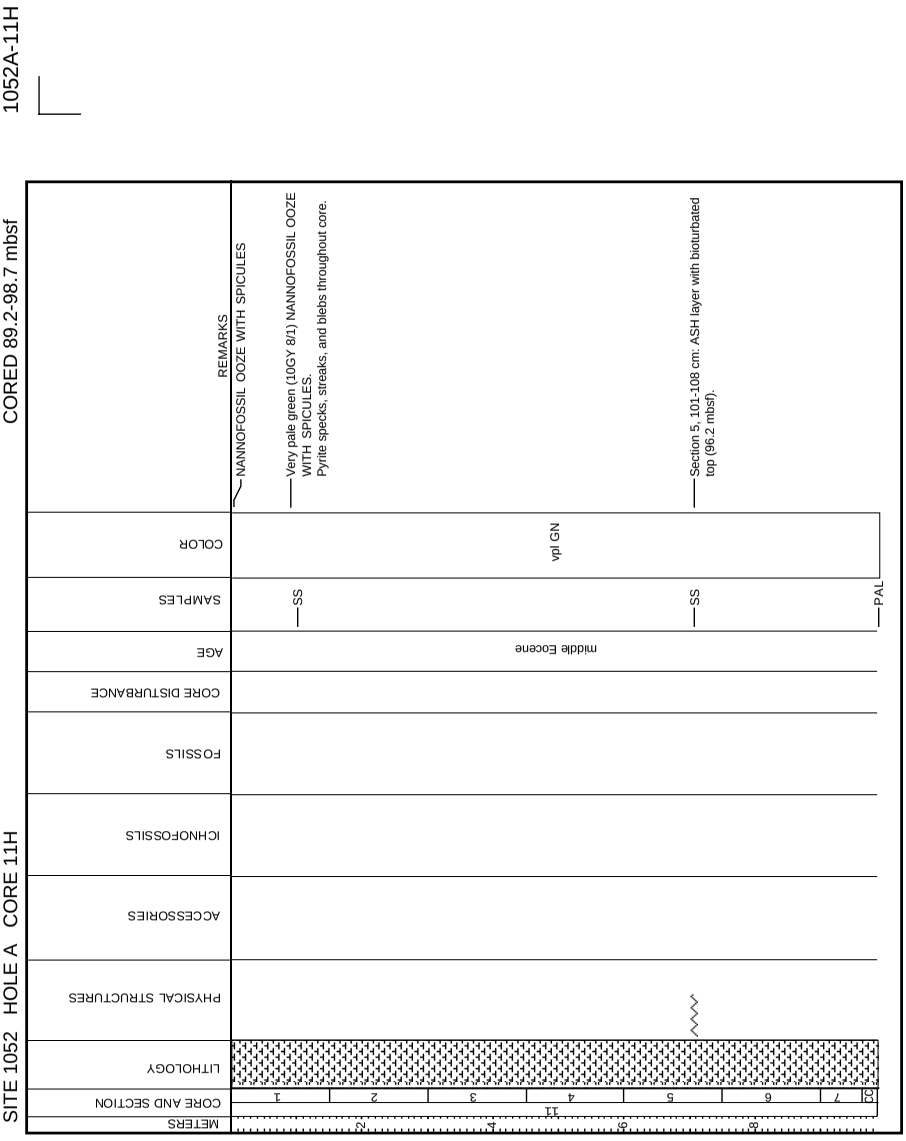

SITE 1052 HOLE A CORE 8H
CORED 60.7-70.2 mbsf
1052A-8H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Eocene
SS
PAL
vpl GN
WH
NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS
Very vague mottles throughout with isolated, dark subhorizontal burrows
Very pale green (5G 8/1) to almost white (N9 with a green tinge) alternating on a meter-scale but transitions are extremely gradational, green intervals more siliceous
Disseminated to small patchy concentrations of pyrite throughout
Effectively no drilling disturbance except around chalk in Section 2
Two pieces of white NANNOFOSSIL CHALK at top of 40 cm disturbed interval
95-97 cm- bioturbated ASH, (67.65 mbsf)

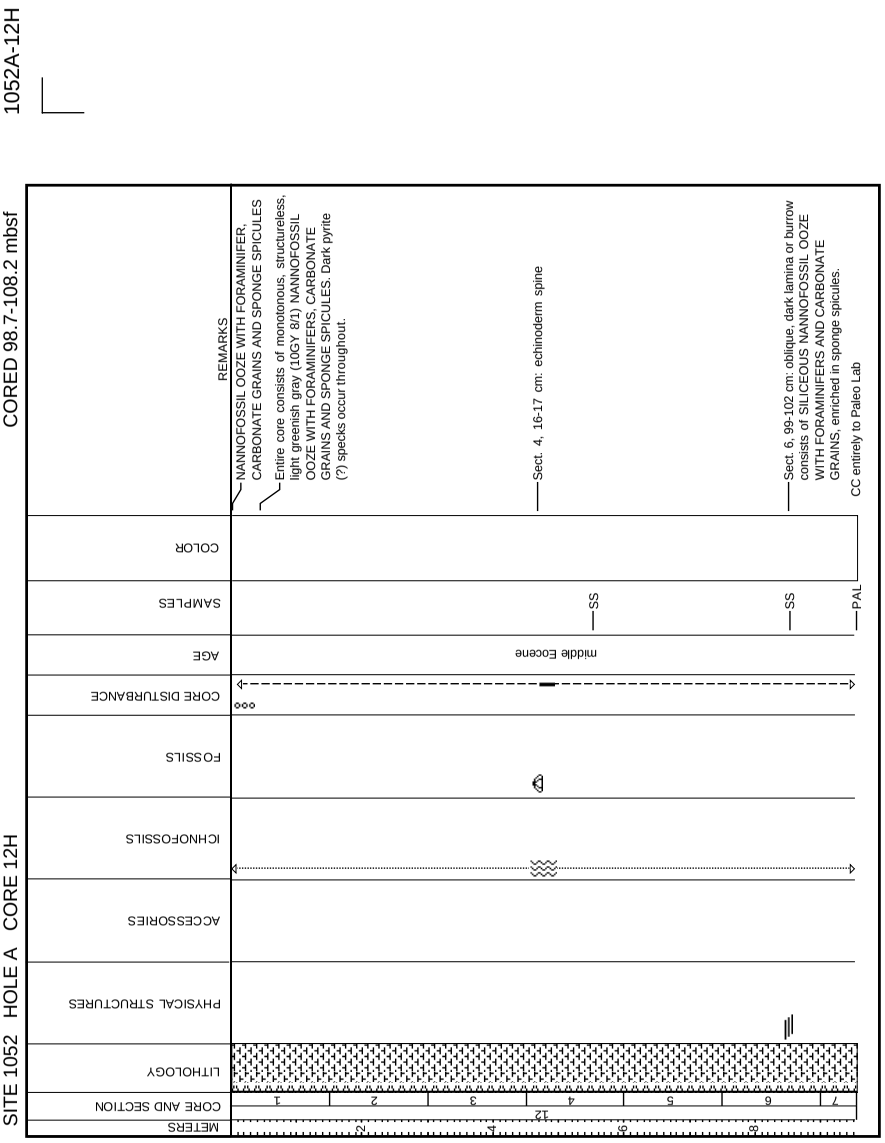
SITE 1052 HOLE A CORE 9H CORED 70.2-79.7 mbsf

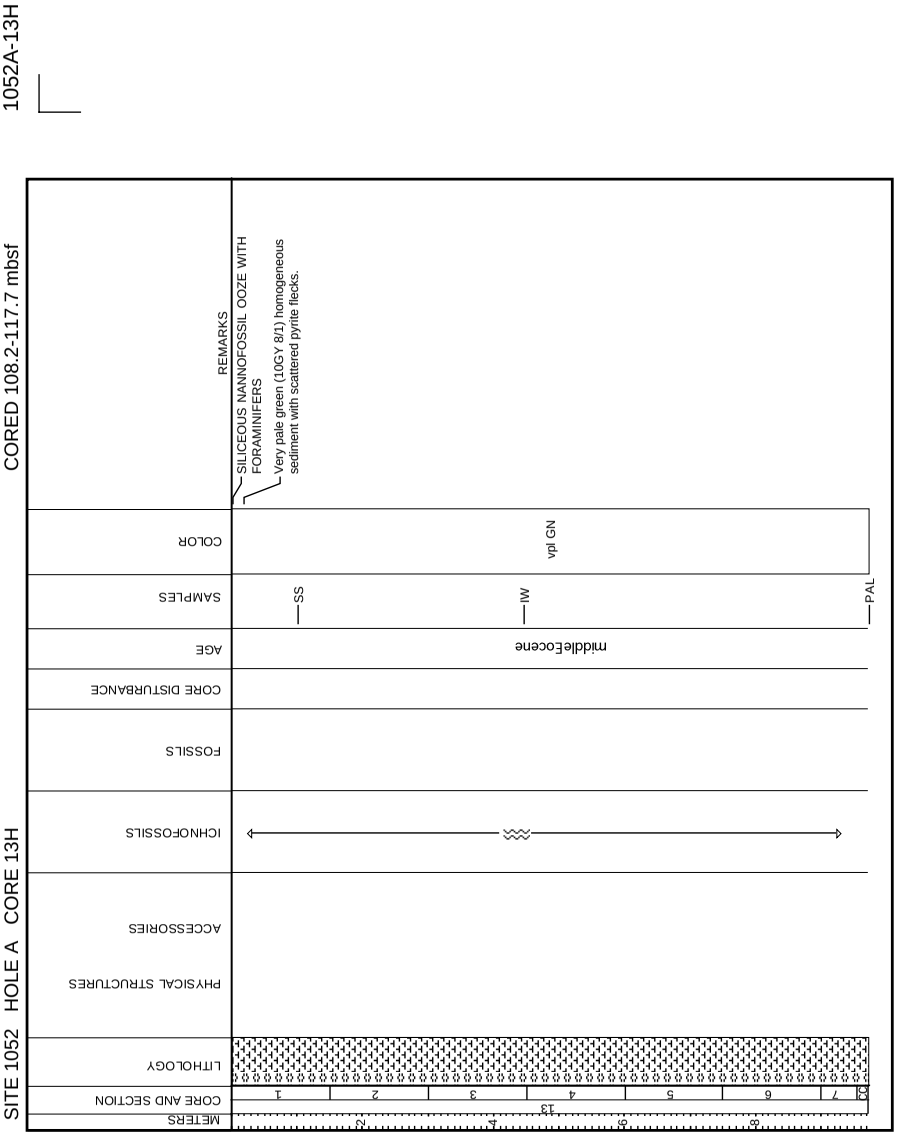
1052A-9H

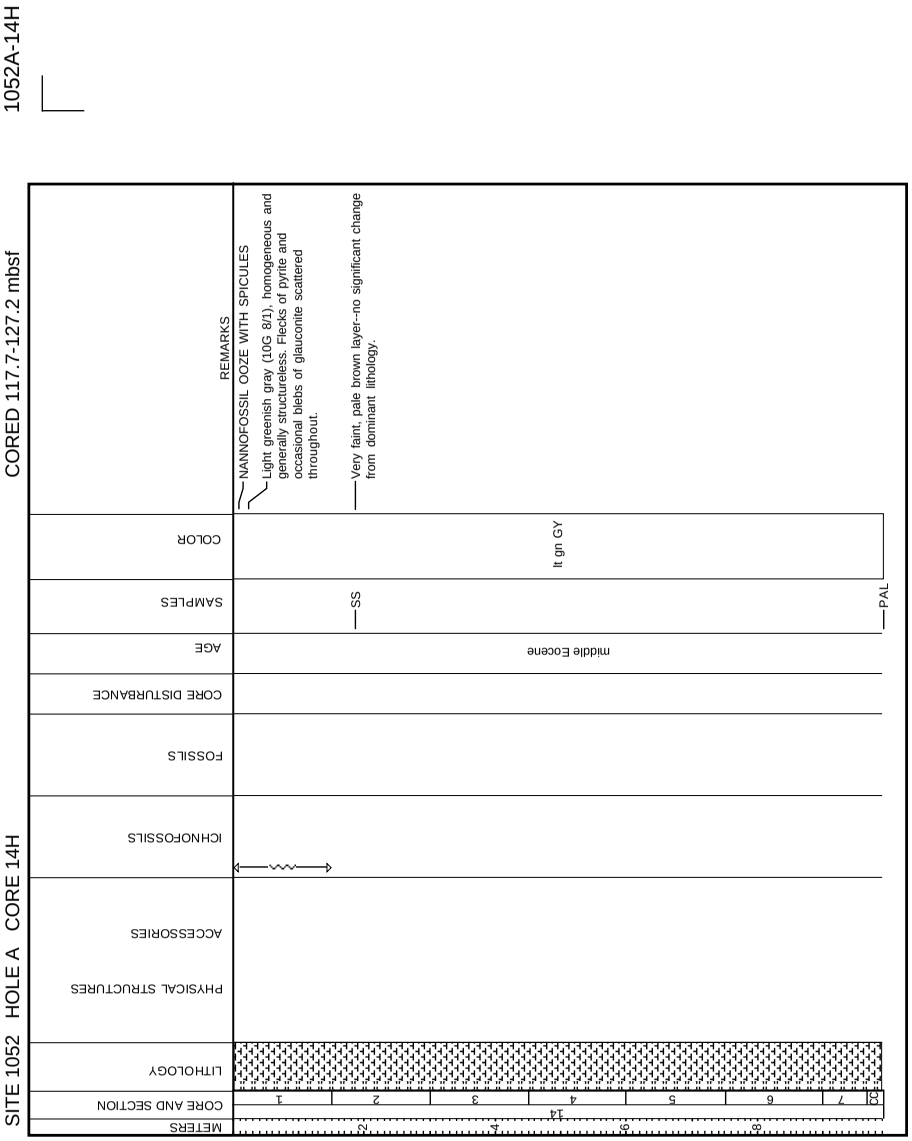



1052A-10H
SITE 1052 HOLE A CORE 10H
CORED 79.7-89.2 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
IW
SS
SS
PAL
vpl GN
NANNOFOSSIL OOZE WITH FORAMINIFERS AND SPICULES
Very pale (10GY 8/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND SPICULES. The core is soupy from 0 to 60 cm with a yellowish patch at 10 cm. Pyrite flecks throughout core. Lithology is homogeneous throughout.
Section 4, 70-71 cm: Bioturbated VITRIC ASH layer. Burrows below the layer filled with VITRIC ASH (84.90 mbsf).
Very pale grayish green patches throughout are slightly richer in siliceous microfossils

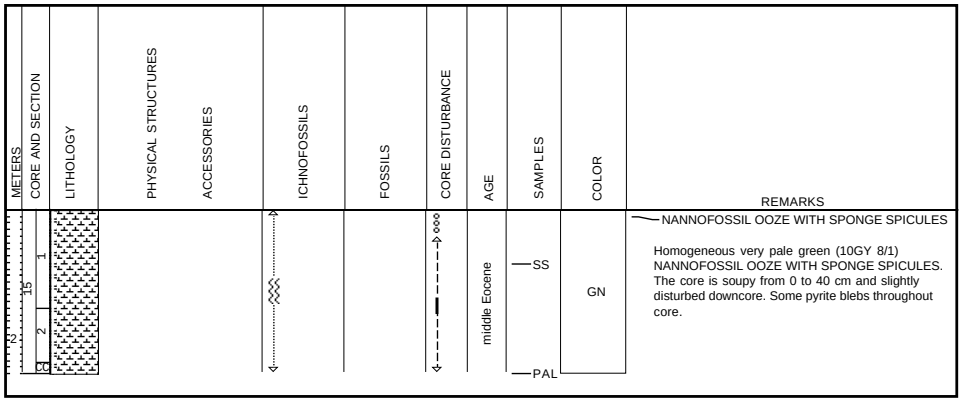

SITE 1052 HOLE A CORE 11H
CORED 89.2-98.7 mbsf
1052A-11H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL OOZE WITH SPICULES
Very pale green (10GY 8/1) NANNOFOSSIL OOZE WITH SPICULES.
Pyrite specks, streaks, and blebs throughout core.
Section 5, 101-108 cm: ASH layer with bioturbated top (96.2 mbsf).
middle Eocene
vpl GN
SS
SS
PAL
1
2
3
4
5
6
7
CC
11
1
2
3
4
5
6
7
8
9


1052A-12H
SITE 1052 HOLE A CORE 12H
CORED 98.7-108.2 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
SS
PAL
NANNOFOSSIL OOZE WITH FORAMINIFER; CARBONATE GRAINS AND SPONGE SPICULES
Entire core consists of monotonous, structureless, light greenish gray (10GY 8/1) NANNOFOSSIL OOZE WITH FORAMINIFERS, CARBONATE GRAINS AND SPONGE SPICULES. Dark pyrite (?) specks occur throughout.
Sect. 4, 16-17 cm: echinoderm spine
Sect. 6, 99-102 cm: oblique, dark lamina or burrow consists of SILICEOUS NANNOFOSSIL OOZE WITH FORAMINIFERS AND CARBONATE GRAINS, enriched in sponge spicules.
CC entirely to Paleo Lab

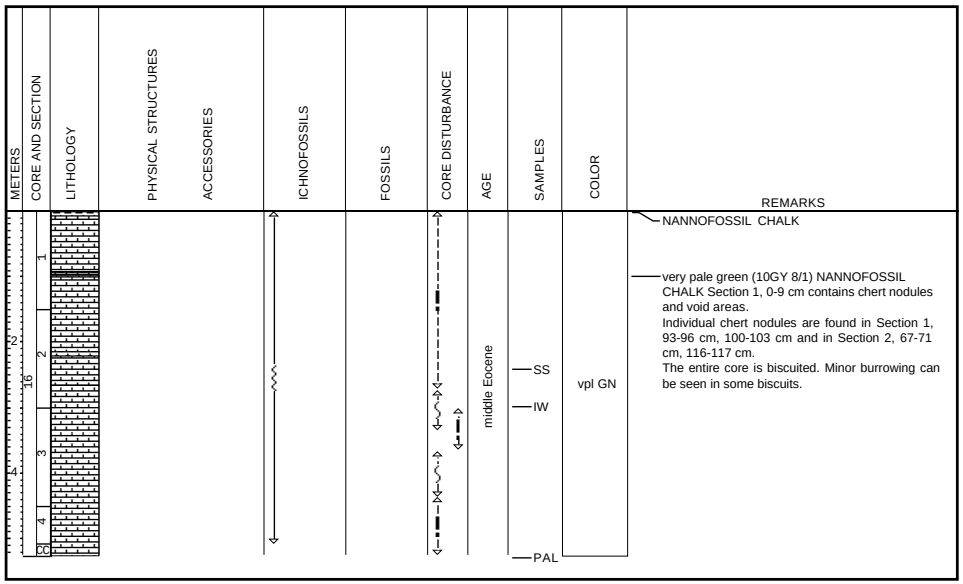

SITE 1052 HOLE A CORE 13H
CORED 108.2-117.7 mbsf
1052A-13H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middleEocene
SS
IW
PAL
vpl GN
SILICEOUS NANNOFOSSIL OOZE WITH FORAMINIFERS
Very pale green (10GY 8/1) homogeneous sediment with scattered pyrite flecks.


1052A-14H
SITE 1052 HOLE A CORE 14H
CORED 117.7-127.2 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
PAL
lt gn GY
NANNOFOSSIL OOZE WITH SPICULES
Light greenish gray (10G 8/1), homogeneous and generally structureless. Flecks of pyrite and occasional blebs of glauconite scattered throughout.
Very faint, pale brown layer--no significant change from dominant lithology.

SITE 1052 HOLE A CORE 15H — CORED 127.2-129.7 mbsf

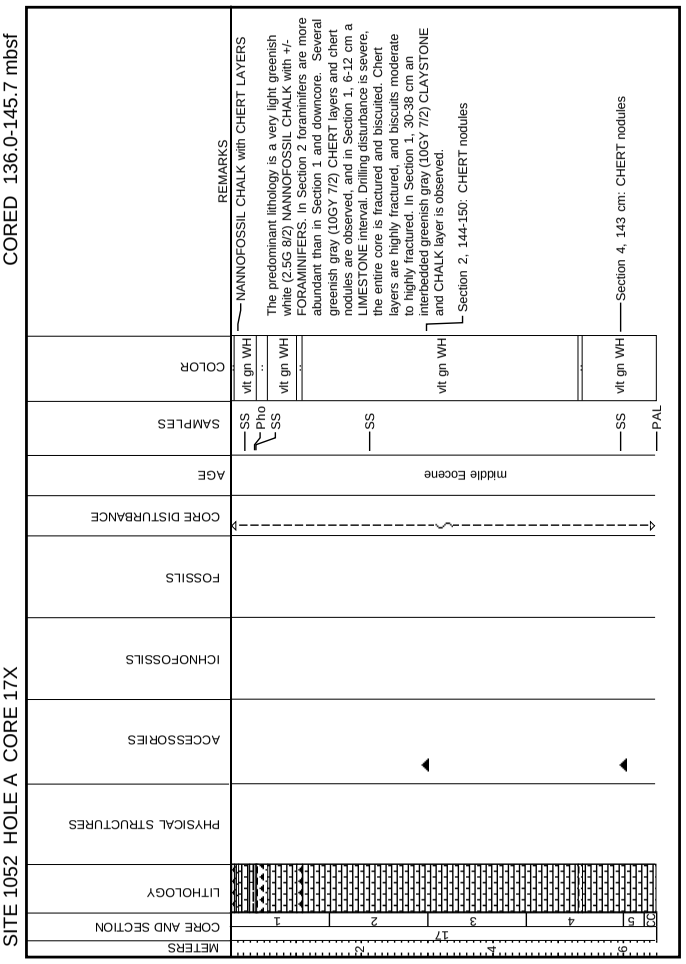


SITE 1052 HOLE A CORE 16X — CORED 129.7-136.0 mbsf



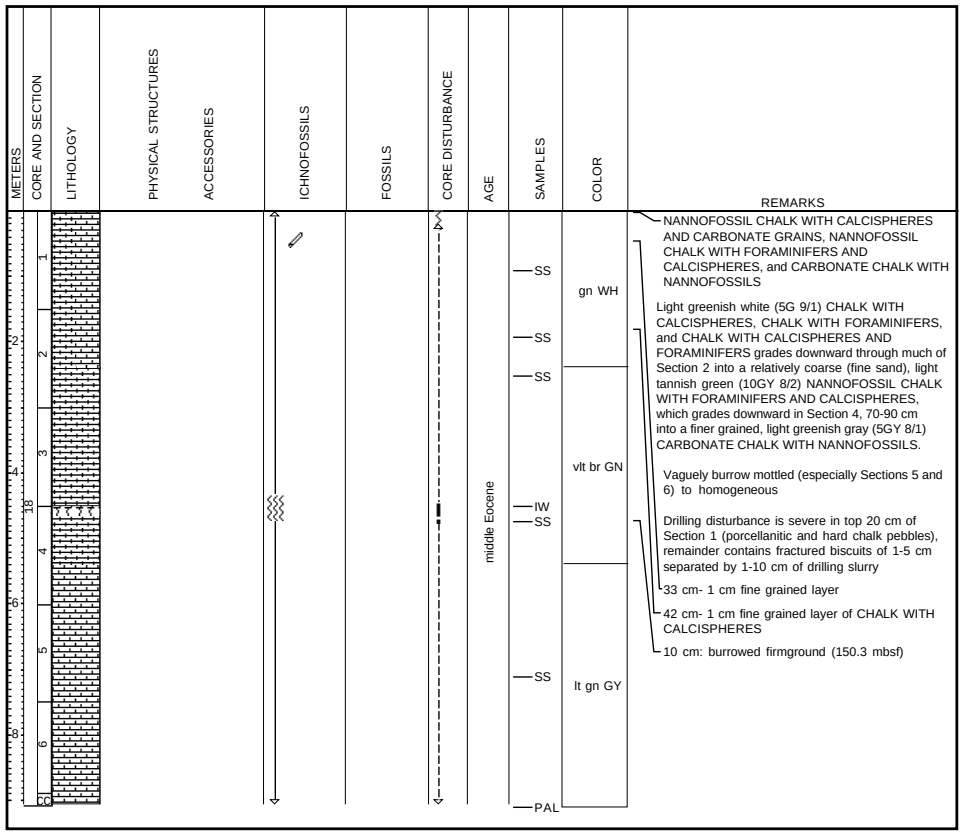
1052A-15H

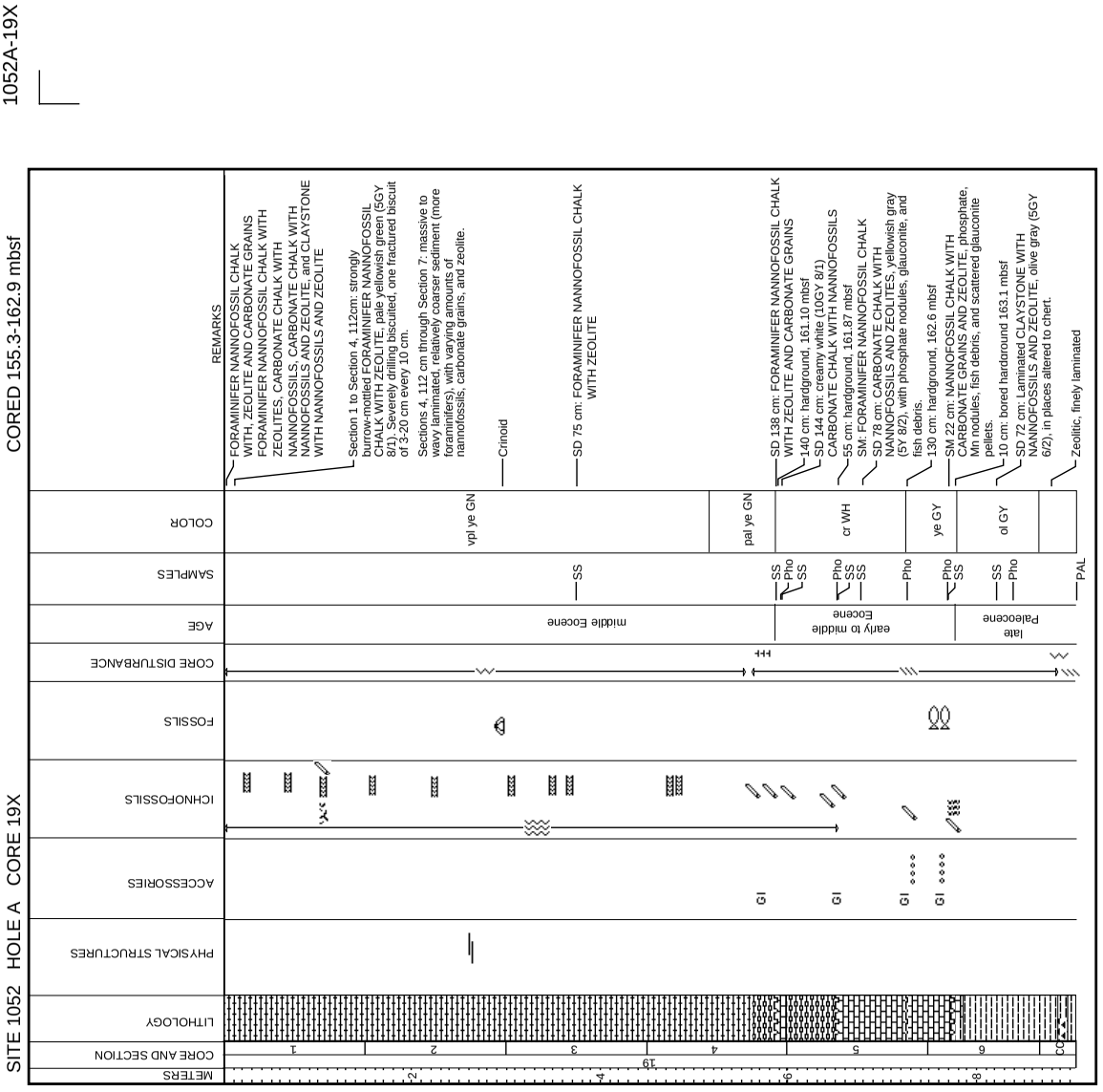
1052A-16X


SITE 1052 HOLE A CORE 17X
CORED 136.0-145.7 mbsf
1052A-17X
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
vlt gn WH
SS
Pho
NANNOFOSSIL CHALK with CHERT LAYERS
The predominant lithology is a very light greenish white (2.5G 8/2) NANNOFOSSIL CHALK with +/- FORAMINIFERS. In Section 2 foraminifers are more abundant than in Section 1 and downcore. Several greenish gray (10GY 7/2) CHERT layers and chert nodules are observed, and in Section 1, 6-12 cm a LIMESTONE interval. Drilling disturbance is severe, the entire core is fractured and biscuited. Chert layers are highly fractured, and biscuits moderate to highly fractured. In Section 1, 30-38 cm an interbedded greenish gray (10GY 7/2) CLAYSTONE and CHALK layer is observed.
Section 2, 144-150: CHERT nodules
Section 4, 143 cm: CHERT nodules
PAL

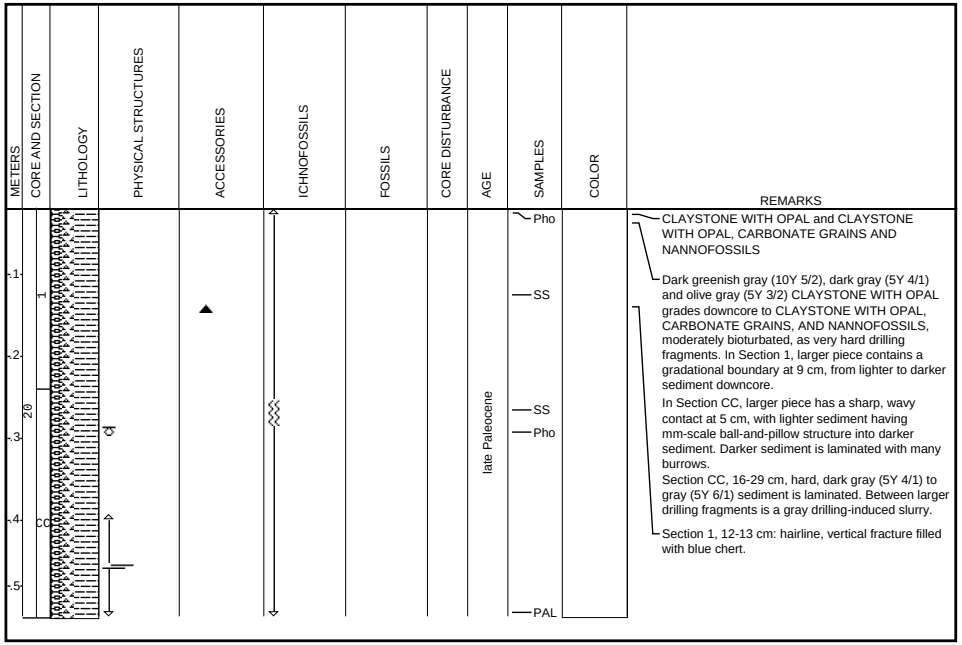
SITE 1052 HOLE A CORE 18X CORED 145.7-155.3 mbsf

1052A-18X

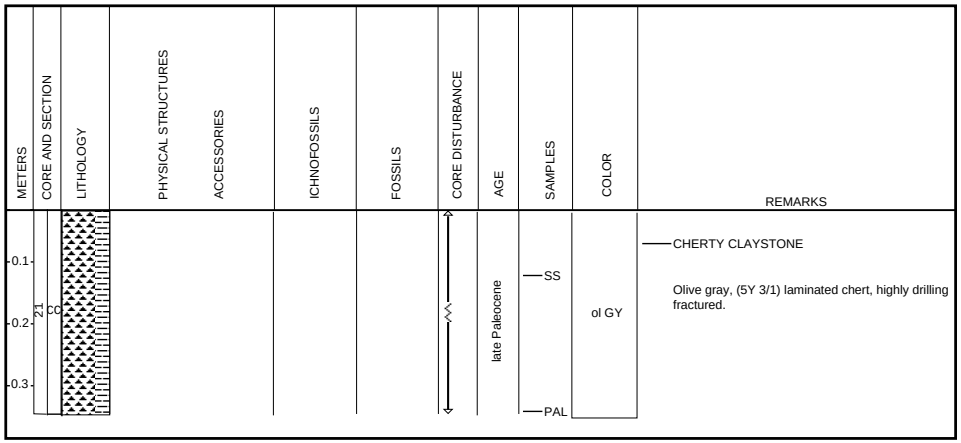



SITE 1052 HOLE A CORE 19X
CORED 155.3-162.9 mbsf
1052A-19X
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
early to middle Eocene
late Paleocene
vpl ye GN
pal ye GN
cr WH
ye GY
ol GY
SS
Pho
PAL
FORAMINIFER NANNOFOSSIL CHALK WITH, ZEOLITE AND CARBONATE GRAINS
FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITES, CARBONATE CHALK WITH NANNOFOSSILS, CARBONATE CHALK WITH NANNOFOSSILS AND ZEOLITE, and CLAYSTONE WITH NANNOFOSSILS AND ZEOLITE
Section 1 to Section 4, 112cm: strongly burrow-mottled FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITE, pale yellowish green (5GY 8/1). Severely drilling biscuited, one fractured biscuit of 3-20 cm every 10 cm.
Sections 4, 112 cm through Section 7: massive to wavy laminated, relatively coarser sediment (more foraminifers), with varying amounts of nannofossils, carbonate grains, and zeolite.
Crinoid
SD 75 cm: FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITE
SD 138 cm: FORAMINIFER NANNOFOSSIL CHALK WITH ZEOLITE AND CARBONATE GRAINS
140 cm: hardground, 161.10 mbsf
SD 144 cm: creamy white (10GY 8/1) CARBONATE CHALK WITH NANNOFOSSILS
55 cm: hardground, 161.87 mbsf
SM: FORAMINIFER NANNOFOSSIL CHALK
SD 78 cm: CARBONATE CHALK WITH NANNOFOSSILS AND ZEOLITES, yellowish gray (5Y 8/2), with phosphate nodules, glauconite, and fish debris.
130 cm: hardground, 162.6 mbsf
SM 22 cm: NANNOFOSSIL CHALK WITH CARBONATE GRAINS AND ZEOLITE, phosphate, Mn nodules, fish debris, and scattered glauconite pellets.
10 cm: bored hardground 163.1 mbsf
SD 72 cm: Laminated CLAYSTONE WITH NANNOFOSSILS AND ZEOLITE, olive gray (5GY 6/2), in places altered to chert.
Zeolitic, finely laminated

SITE 1052 HOLE A CORE 20X CORED 162.9-168.4 mbsf



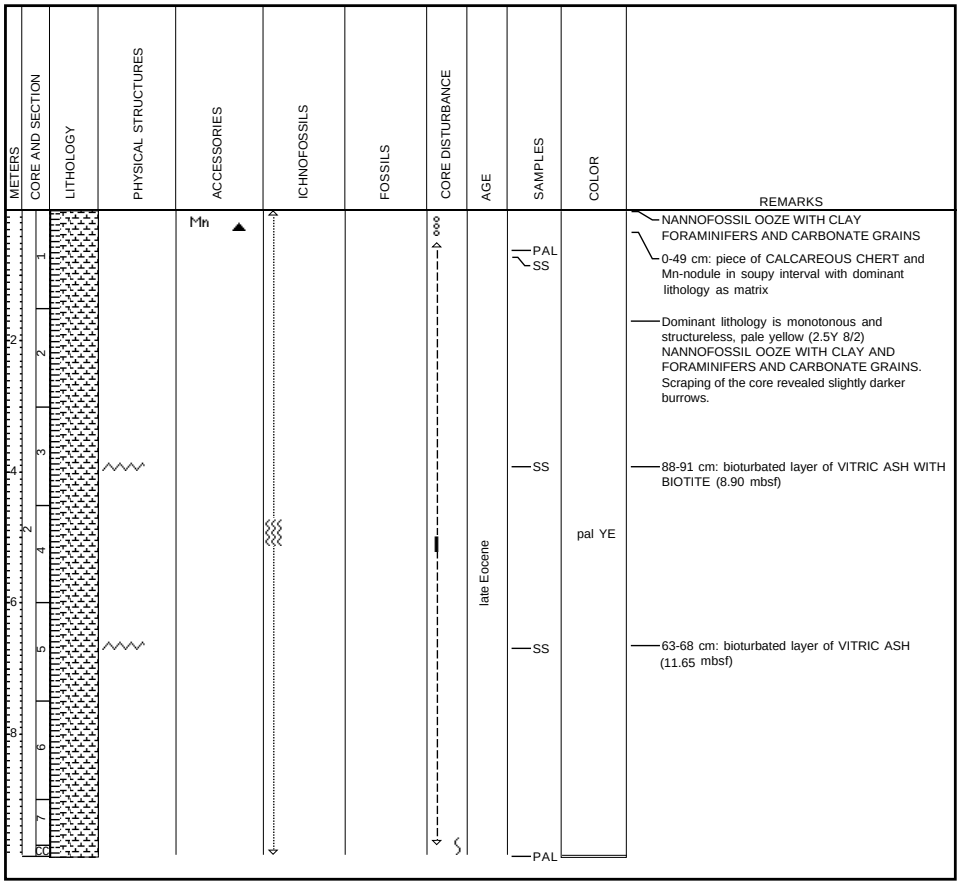
SITE 1052 HOLE A CORE 21X CORED 168.4-174.5 mbsf



1052B-1X Entire core given to Micropaleontology lab.

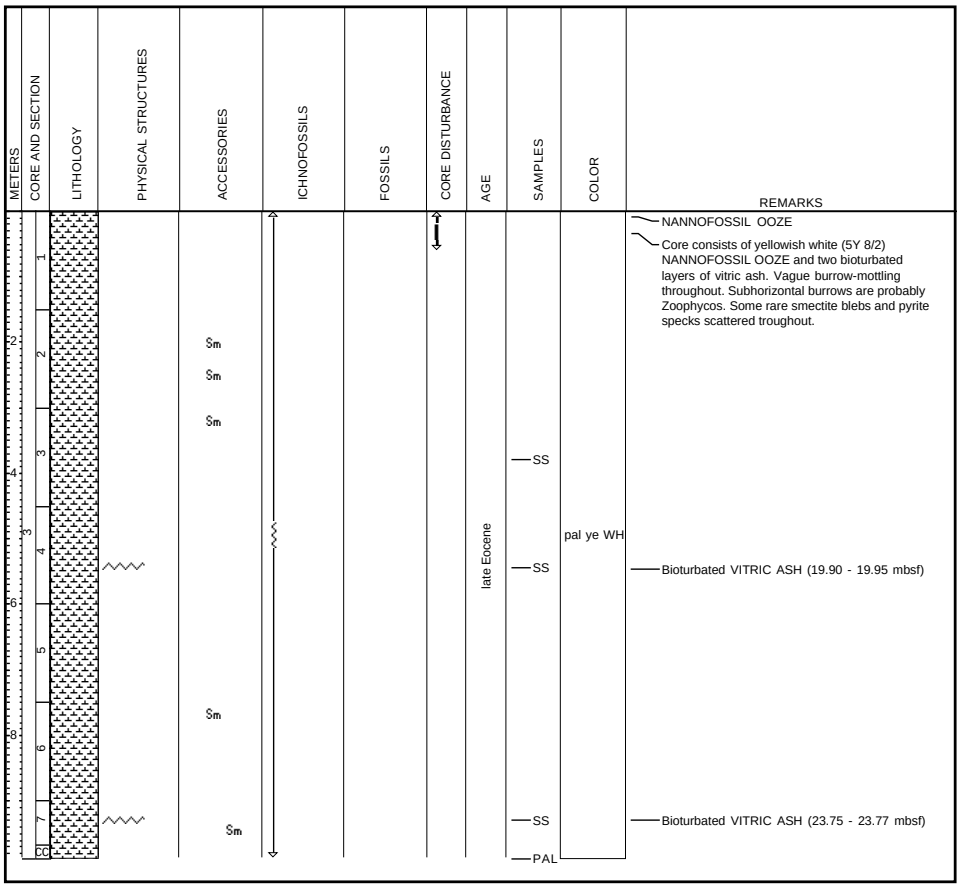
1052B-2H

SITE 1052 HOLE B CORE 2H CORED 5.0-14.5 mbsf



SITE 1052 HOLE B CORE 3H CORED 14.5-24.0 mbsf

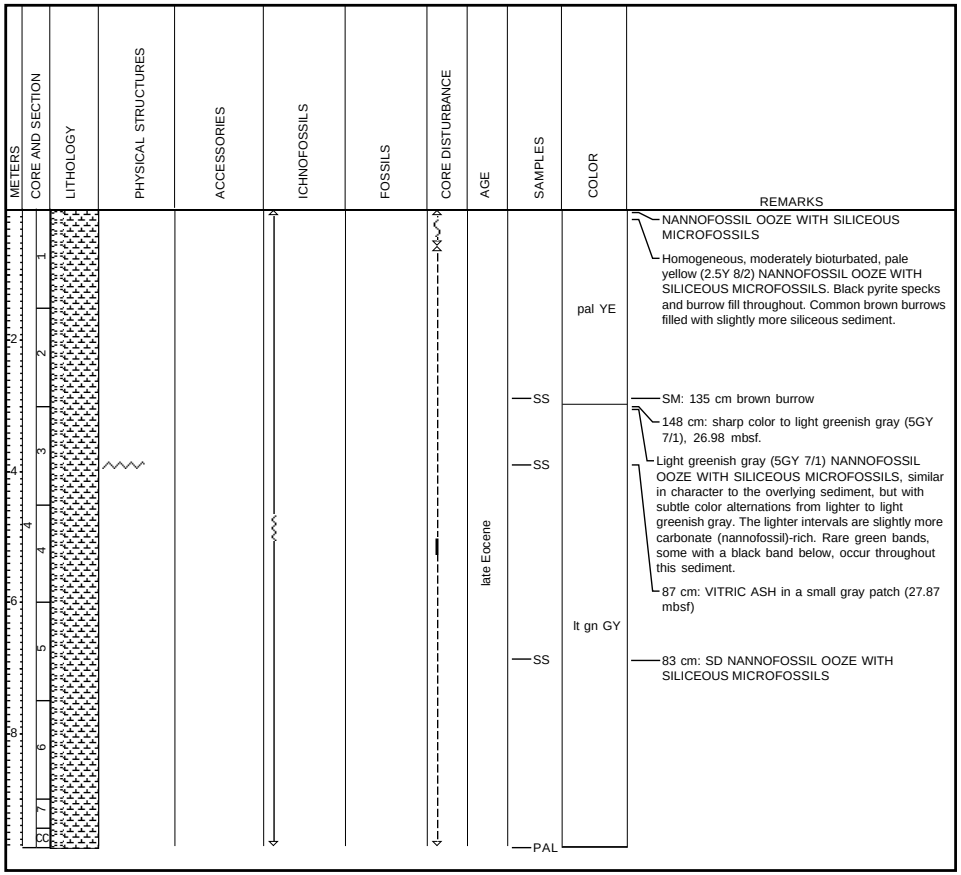
1052B-3H



SITE 1052 HOLE B CORE 4H

CORED 24.0-33.5 mbsf

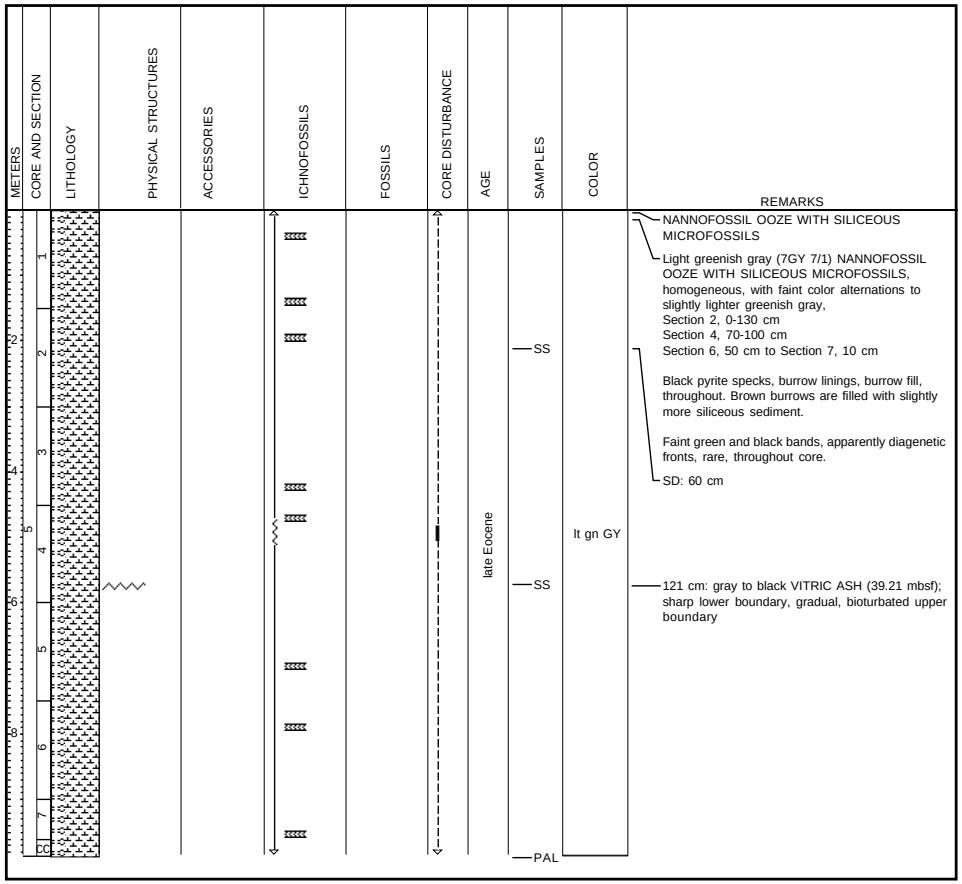
1052B-4H

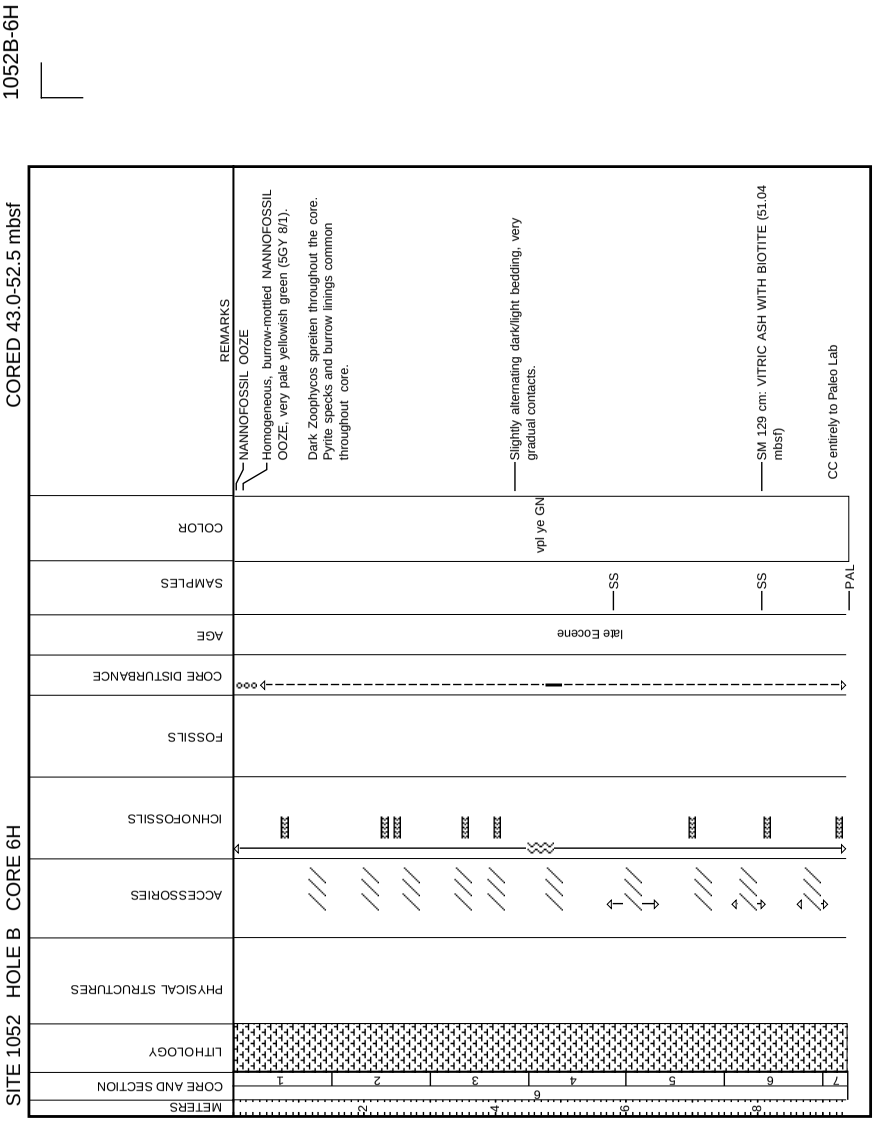


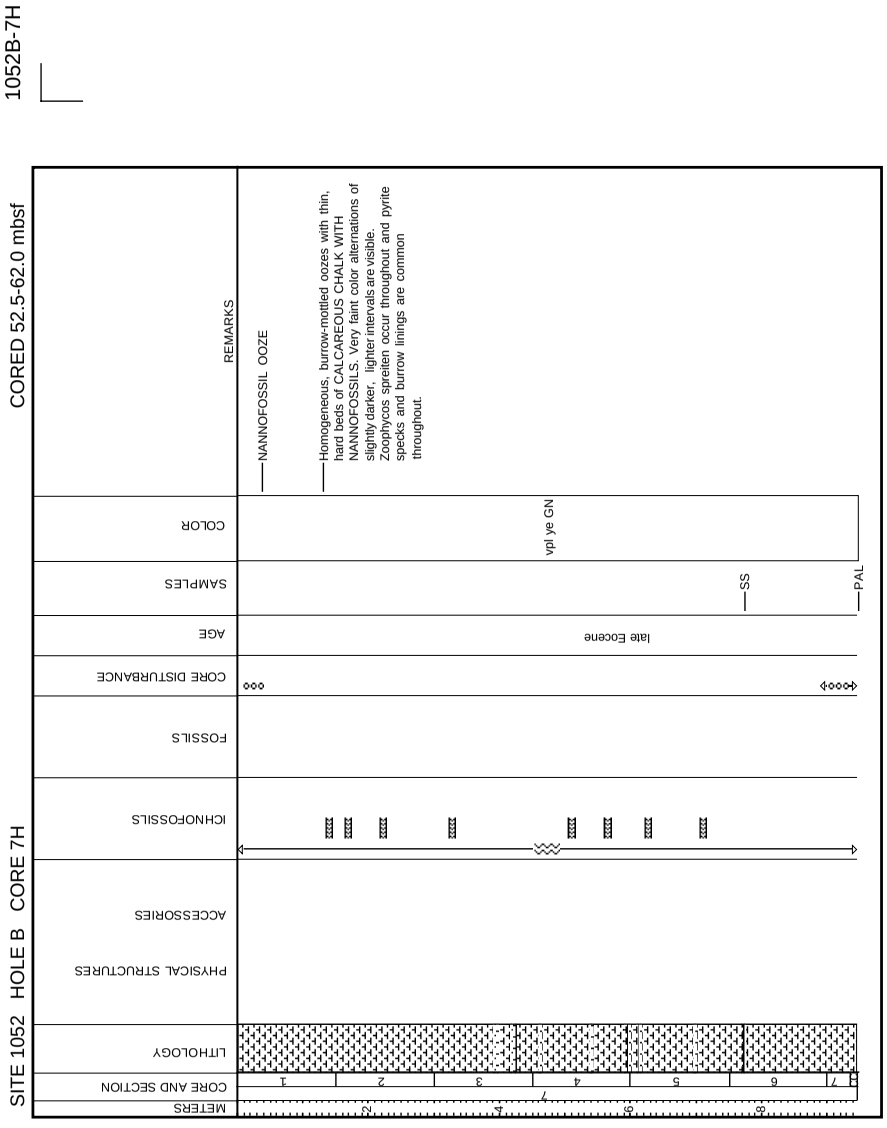
SITE 1052 HOLE B CORE 5H

CORED 33.5-43.0 mbsf

1052B-5H




SITE 1052 HOLE B CORE 6H
CORED 43.0-52.5 mbsf
1052B-6H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL OOZE
Homogeneous, burrow-mottled NANNOFOSSIL OOZE, very pale yellowish green (5GY 8/1).
Dark Zoophycos spreiten throughout the core. Pyrite specks and burrow linings common throughout core.
Slightly alternating dark/light bedding, very gradual contacts.
SM 129 cm: VITRIC ASH WITH BIOTITE (51.04 mbsf)
CC entirely to Paleo Lab
late Eocene
vpl ye GN
SS
SS
PAL


1052B-7H
SITE 1052 HOLE B CORE 7H
CORED 52.5-62.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Eocene
SS
PAL
vpl ye GN
NANNOFOSSIL OOZE
Homogeneous, burrow-mottled oozes with thin, hard beds of CALCAREOUS CHALK WITH NANNOFOSSILS. Very faint color alternations of slightly darker, lighter intervals are visible. Zoophycos spreiten occur throughout and pyrite specks and burrow linings are common throughout.

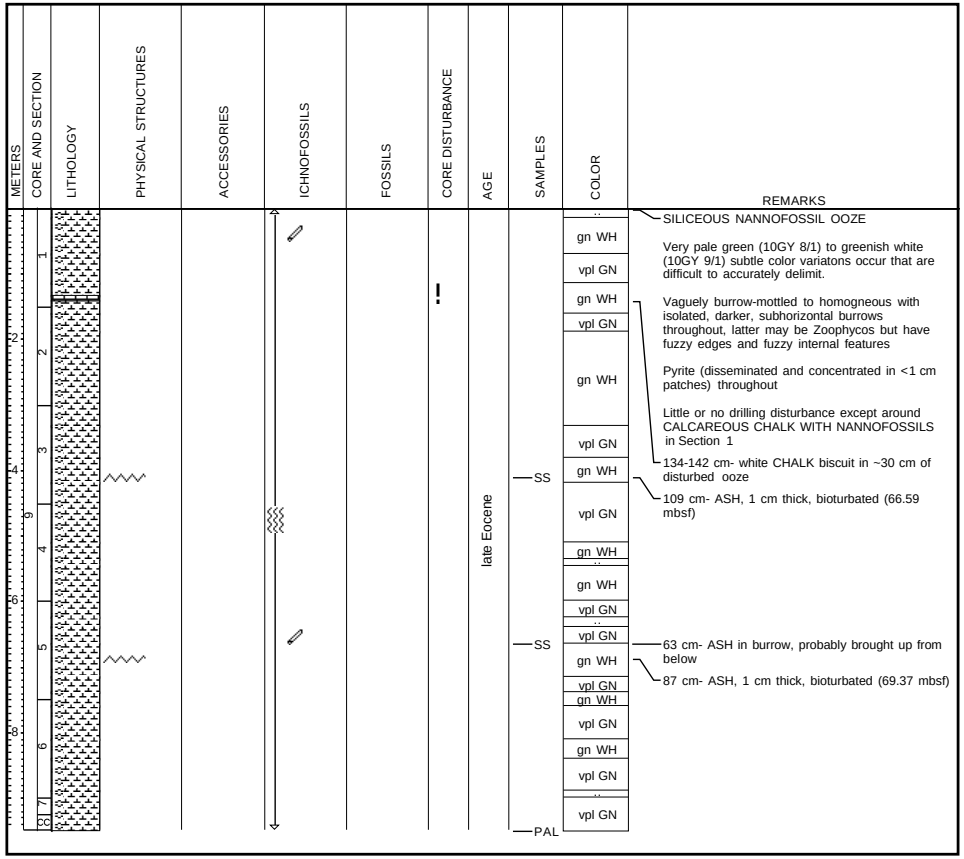
SITE 1052 HOLE B CORE 8H

CORED 62.0-62.5 mbsf

1052B-8H

SITE 1052 HOLE B CORE 9H CORED 62.5-72.0 mbsf

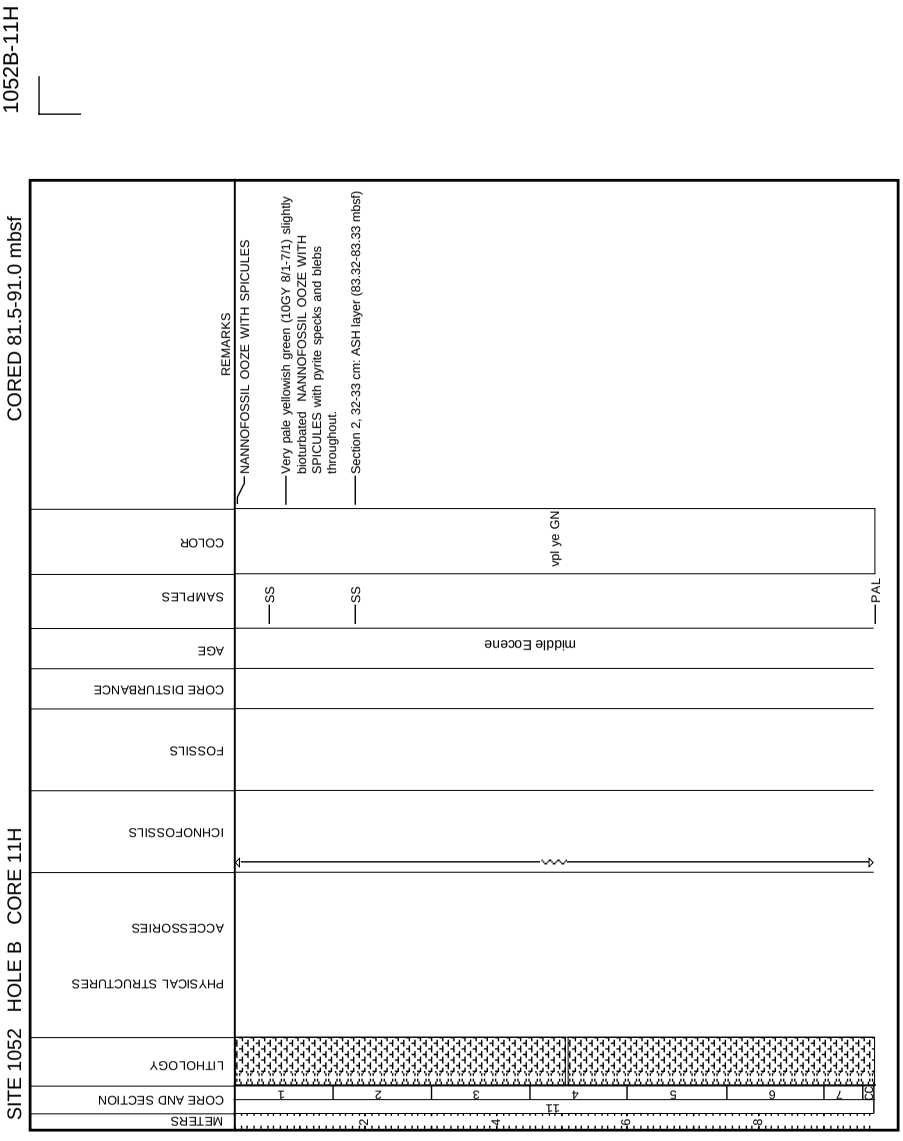
1052B-9H



SITE 1052 HOLE B CORE 10H

CORED 72.0-81.5 mbsf

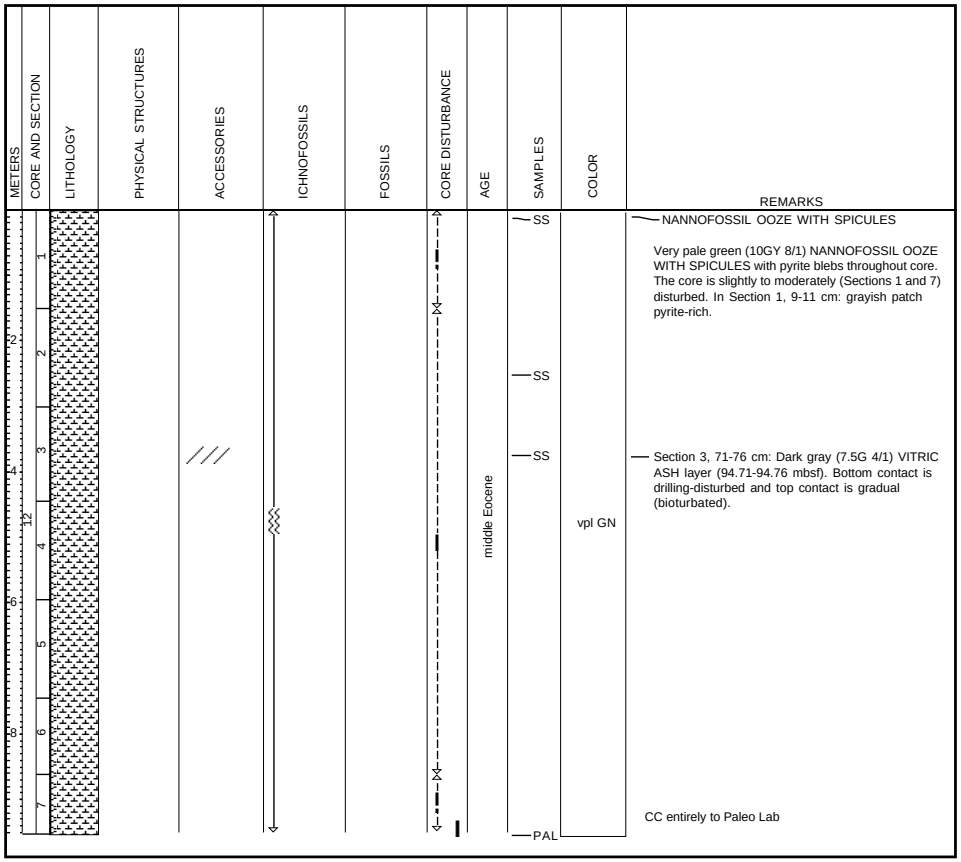
1052B-10H

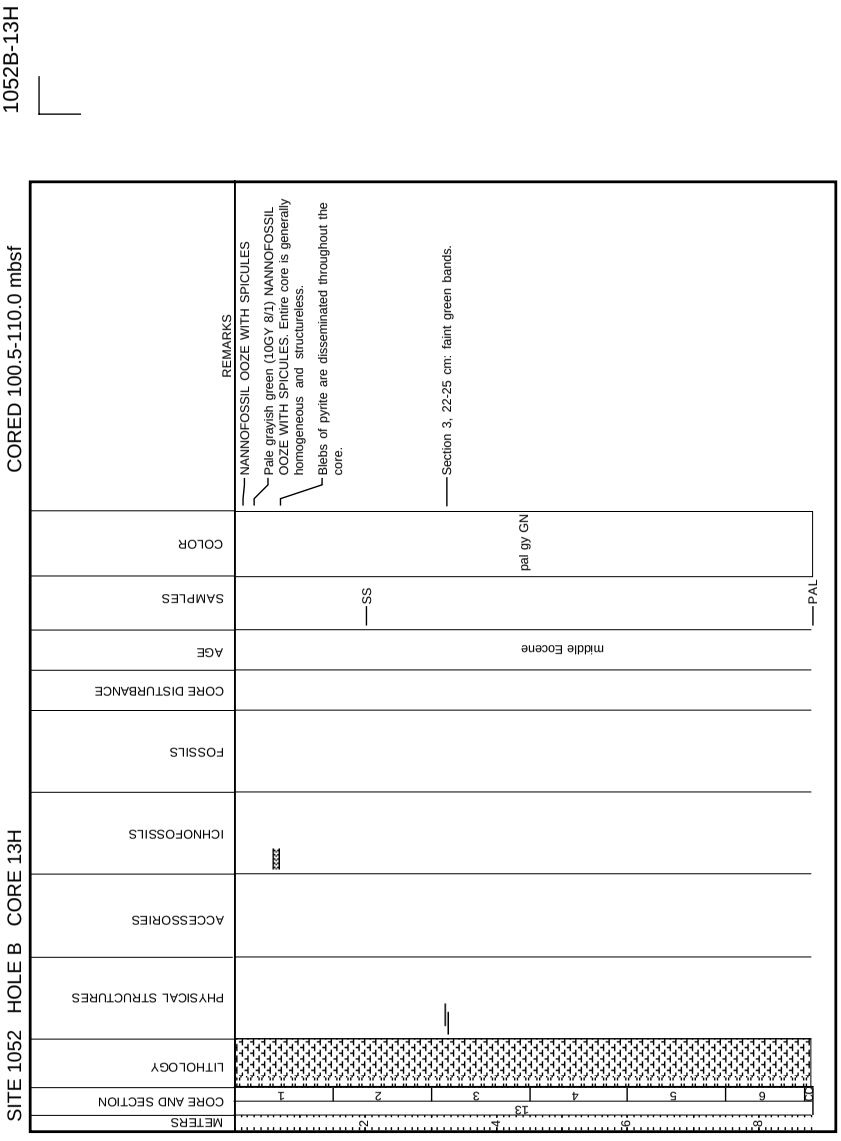

SITE 1052 HOLE B CORE 11H
CORED 81.5-91.0 mbsf
1052B-11H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
SS
PAL
vpl ye GN
NANNOFOSSIL OOZE WITH SPICULES
Very pale yellowish green (10GY 8/1-7/1) slightly bioturbated NANNOFOSSIL OOZE WITH SPICULES with pyrite specks and blebs throughout.
Section 2, 32-33 cm: ASH layer (83.32-83.33 mbsf)

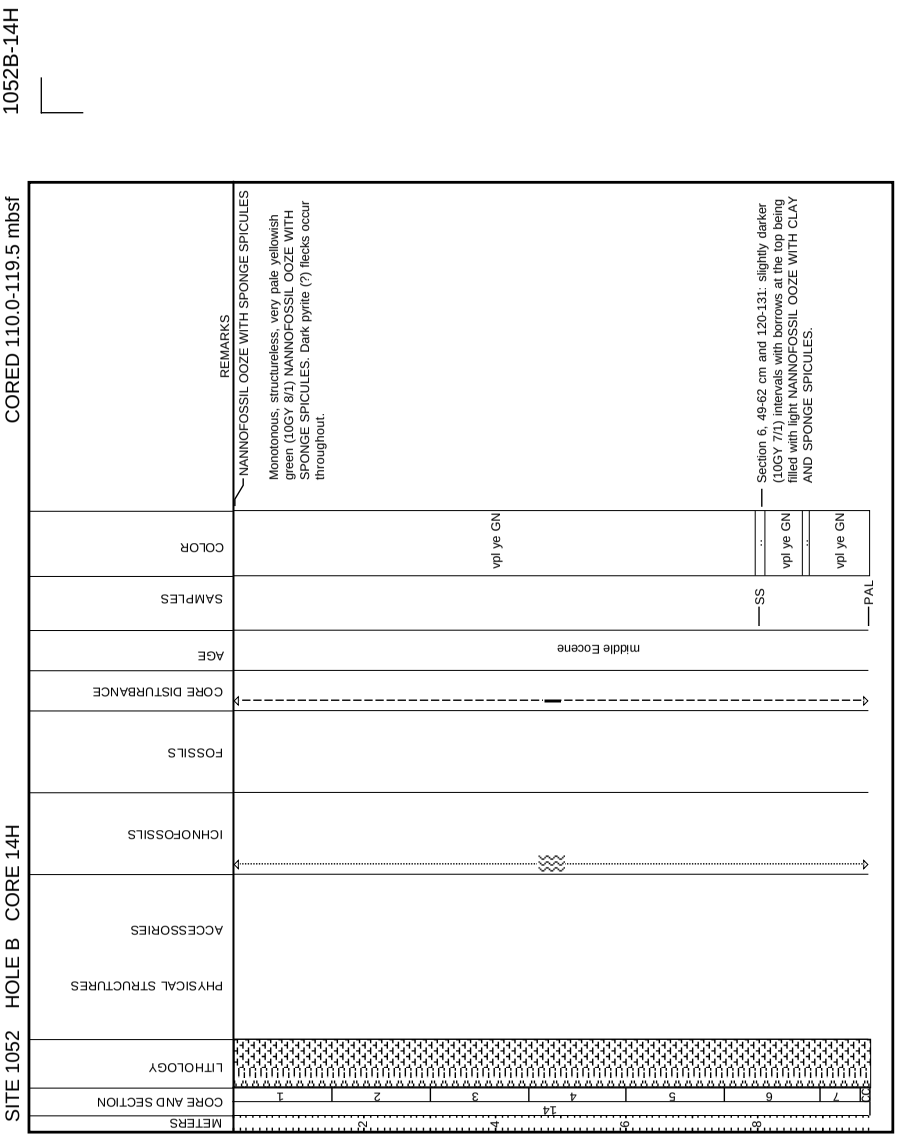
SITE 1052 HOLE B CORE 12H

CORED 91.0-100.5 mbsf

1052B-12H



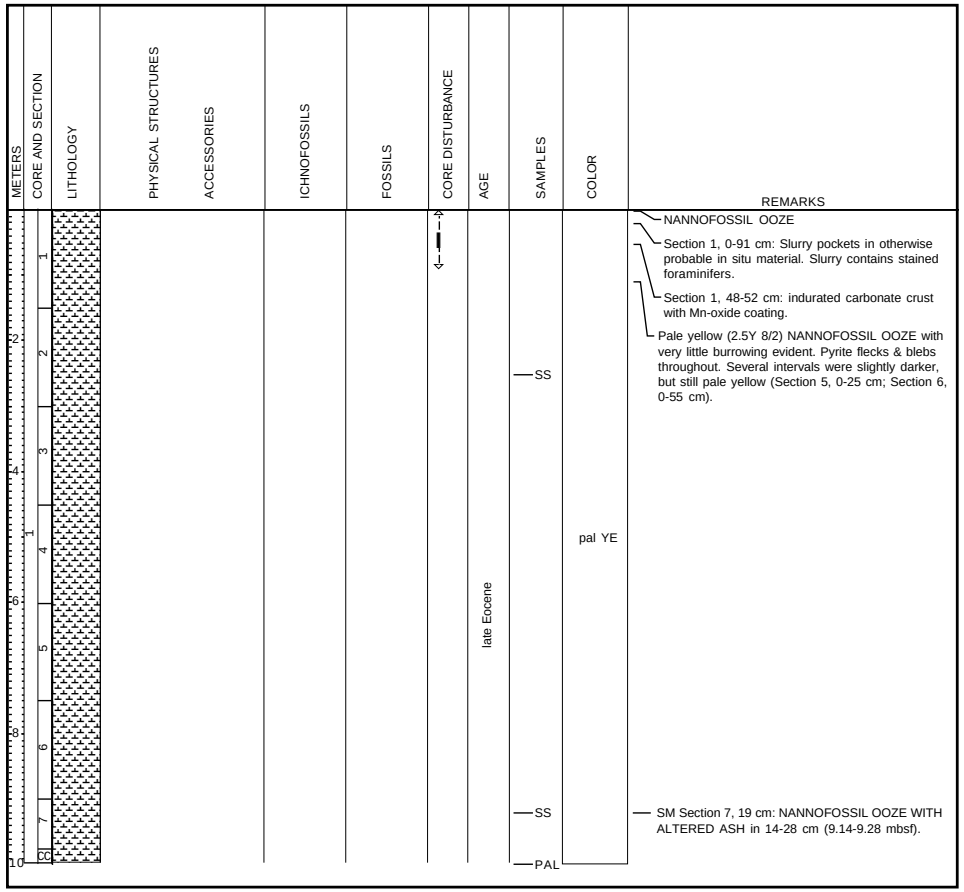

SITE 1052 HOLE B CORE 13H
CORED 100.5-110.0 mbsf
1052B-13H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
PAL
pal gy GN
NANNOFOSSIL OOZE WITH SPICULES
Pale grayish green (10GY 8/1) NANNOFOSSIL OOZE WITH SPICULES. Entire core is generally homogeneous and structureless.
Blebs of pyrite are disseminated throughout the core.
Section 3, 22-25 cm: faint green bands.


SITE 1052 HOLE B CORE 14H
CORED 110.0-119.5 mbsf
1052B-14H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
PAL
vpl ye GN
vpl ye GN
vpl ye GN
NANNOFOSSIL OOZE WITH SPONGE SPICULES
Monotonous, structureless, very pale yellowish green (10GY 8/1) NANNOFOSSIL OOZE WITH SPONGE SPICULES. Dark pyrite (?) flecks occur throughout.
Section 6, 49-62 cm and 120-131: slightly darker (10GY 7/1) intervals with borrows at the top being filled with light NANNOFOSSIL OOZE WITH CLAY AND SPONGE SPICULES.

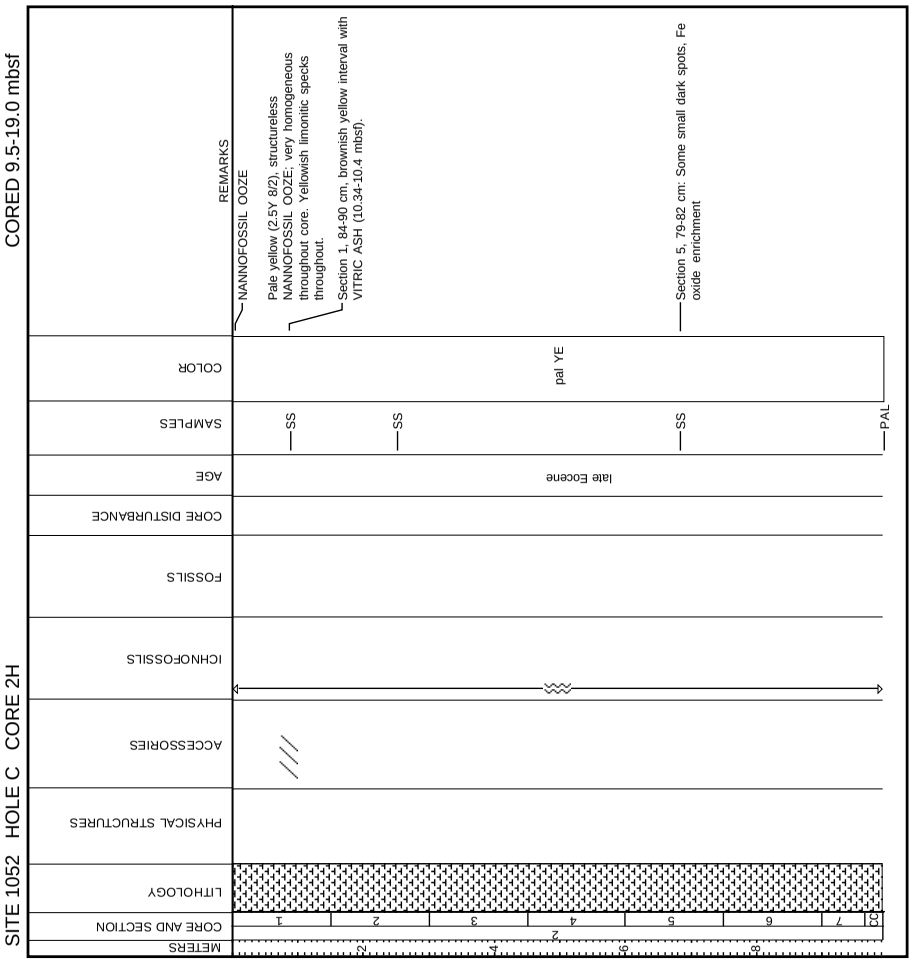
SITE 1052 HOLE C CORE 1H

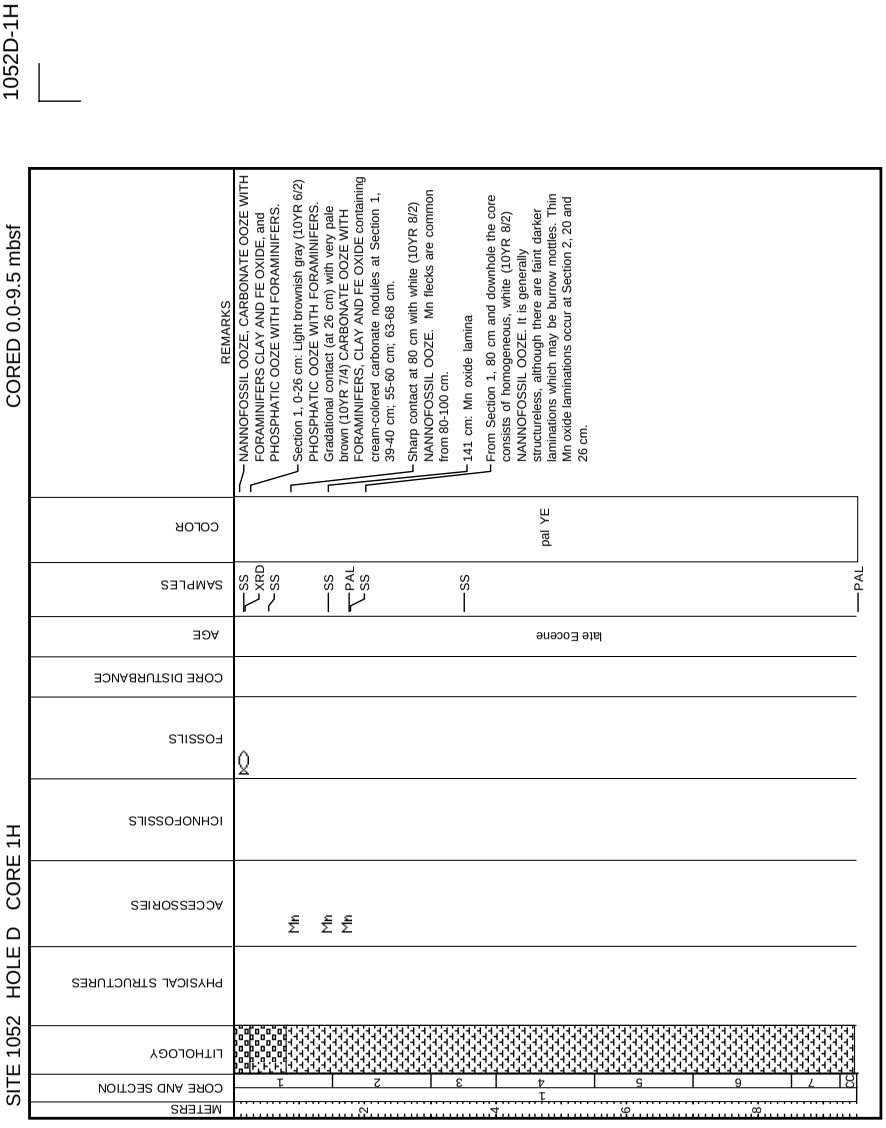
CORED 0.0-9.5 mbsf

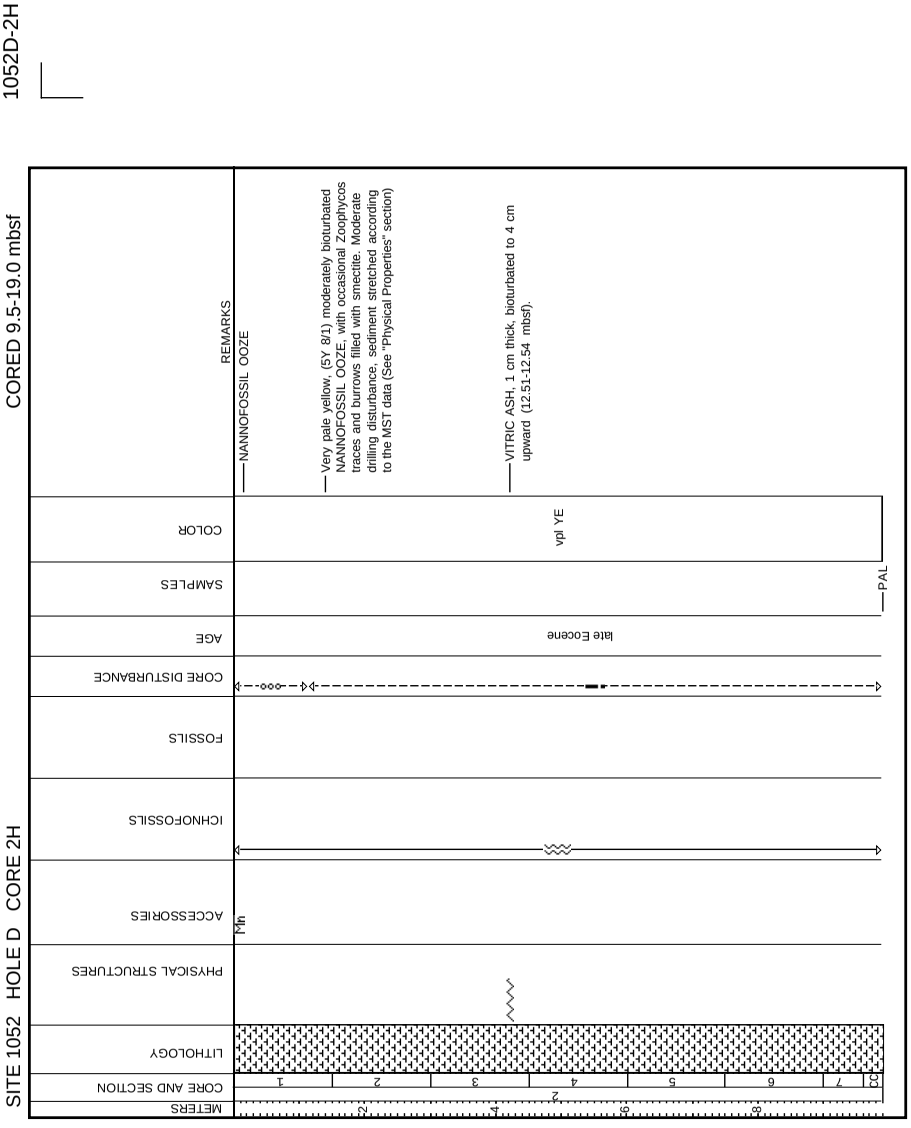
1052C-1H



1052C-2H


SITE 1052 HOLE C CORE 2H
CORED 9.5-19.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Eocene
SS
SS
SS
PAL
pal YE
NANNOFOSSIL OOZE
Pale yellow (2.5Y 8/2), structureless NANNOFOSSIL OOZE; very homogeneous throughout core. Yellowish limonitic specks throughout.
Section 1, 84-90 cm, brownish yellow interval with VITRIC ASH (10.34-10.4 mbsf).
Section 5, 79-82 cm: Some small dark spots, Fe oxide enrichment

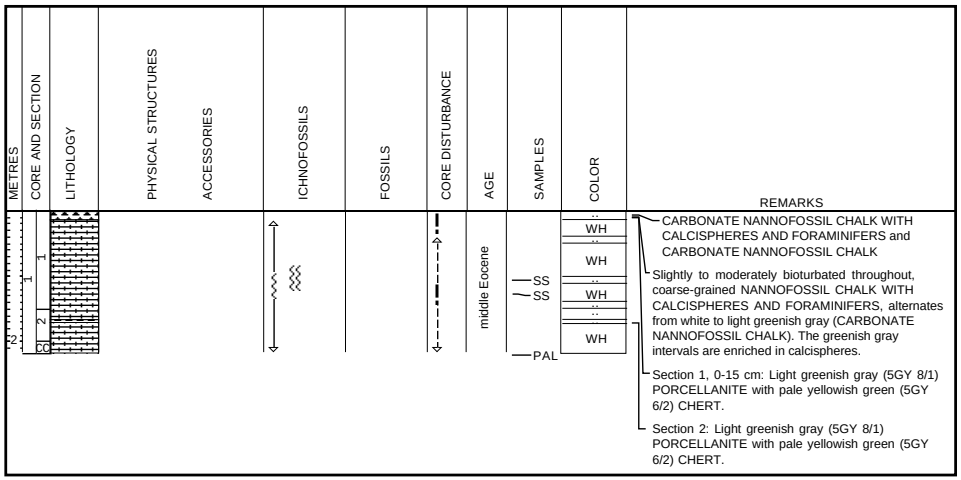

SITE 1052 HOLE D CORE 1H
CORED 0.0-9.5 mbsf
1052D-1H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Eocene
SS
XRD
SS
SS
PAL
SS
SS
PAL
pal YE
Mn
Mn
Mn
NANNOFOSSIL OOZE; CARBONATE OOZE WITH FORAMINIFERS CLAY AND FE OXIDE, and PHOSPHATIC OOZE WITH FORAMINIFERS.
Section 1, 0-26 cm: Light brownish gray (10YR 6/2) PHOSPHATIC OOZE WITH FORAMINIFERS. Gradational contact (at 26 cm) with very pale brown (10YR 7/4) CARBONATE OOZE WITH FORAMINIFERS, CLAY AND FE OXIDE containing cream-colored carbonate nodules at Section 1, 39-40 cm; 55-60 cm; 63-68 cm.
Sharp contact at 80 cm with white (10YR 8/2) NANNOFOSSIL OOZE. Mn flecks are common from 80-100 cm.
141 cm: Mn oxide lamina
From Section 1, 80 cm and downhole the core consists of homogeneous, white (10YR 8/2) NANNOFOSSIL OOZE. It is generally structureless, although there are faint darker laminations which may be burrow mottles. Thin Mn oxide laminations occur at Section 2, 20 and 26 cm.


1052D-2H
SITE 1052 HOLE D CORE 2H
CORED 9.5-19.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL OOZE
Very pale yellow, (5Y 8/1) moderately bioturbated NANNOFOSSIL OOZE, with occasional Zoophycos traces and burrows filled with smectite. Moderate drilling disturbance, sediment stretched according to the MST data (See "Physical Properties" section)
VITRIC ASH, 1 cm thick, bioturbated to 4 cm upward (12.51-12.54 mbsf).
late Eocene
PAL
ypl YE

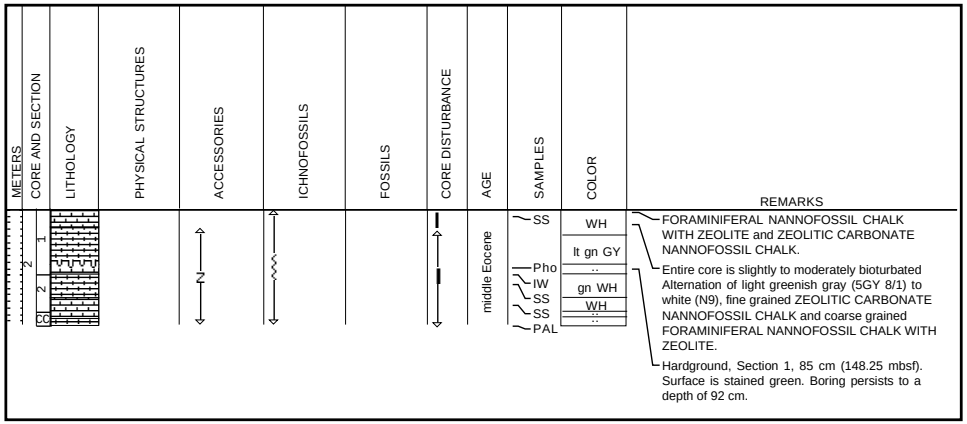
SITE 1052 HOLE E CORE 1R — CORED 140.0-146.4 mbsf

1052E-1R

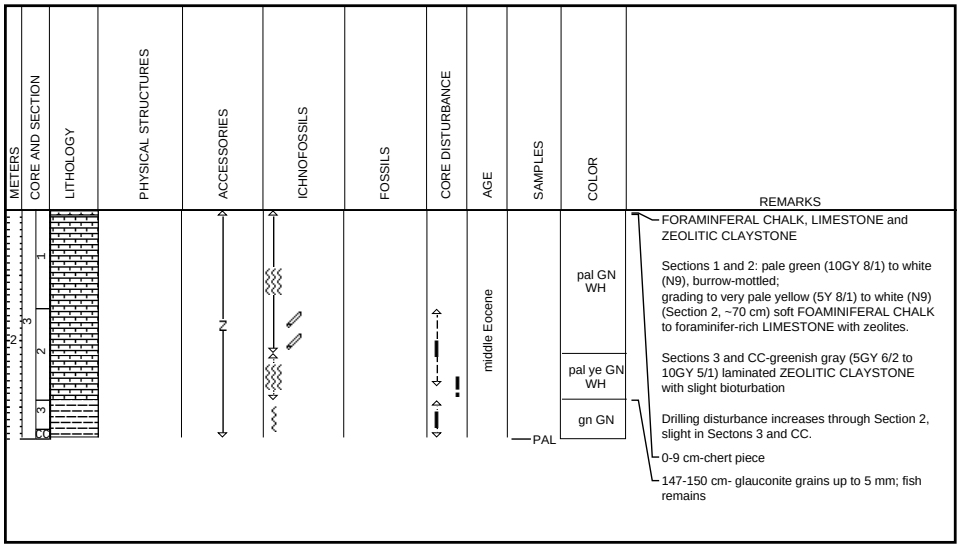
1052E-2R



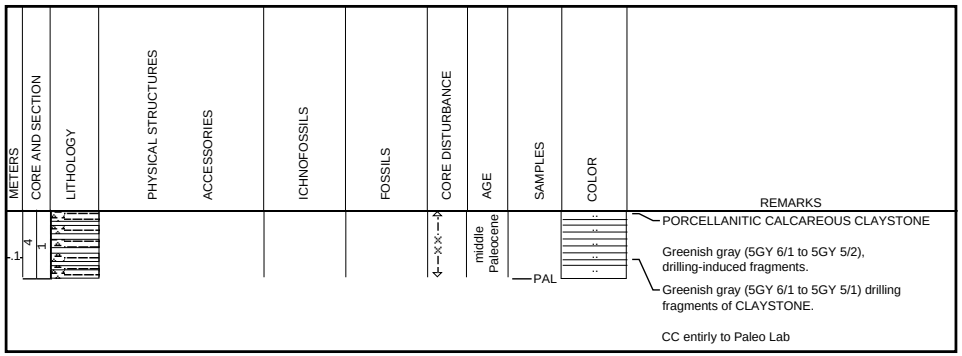
SITE 1052 HOLE E CORE 2R — CORED 146.4-156.0 mbsf



SITE 1052 HOLE E CORE 3R — CORED 156.0-165.6 mbsf

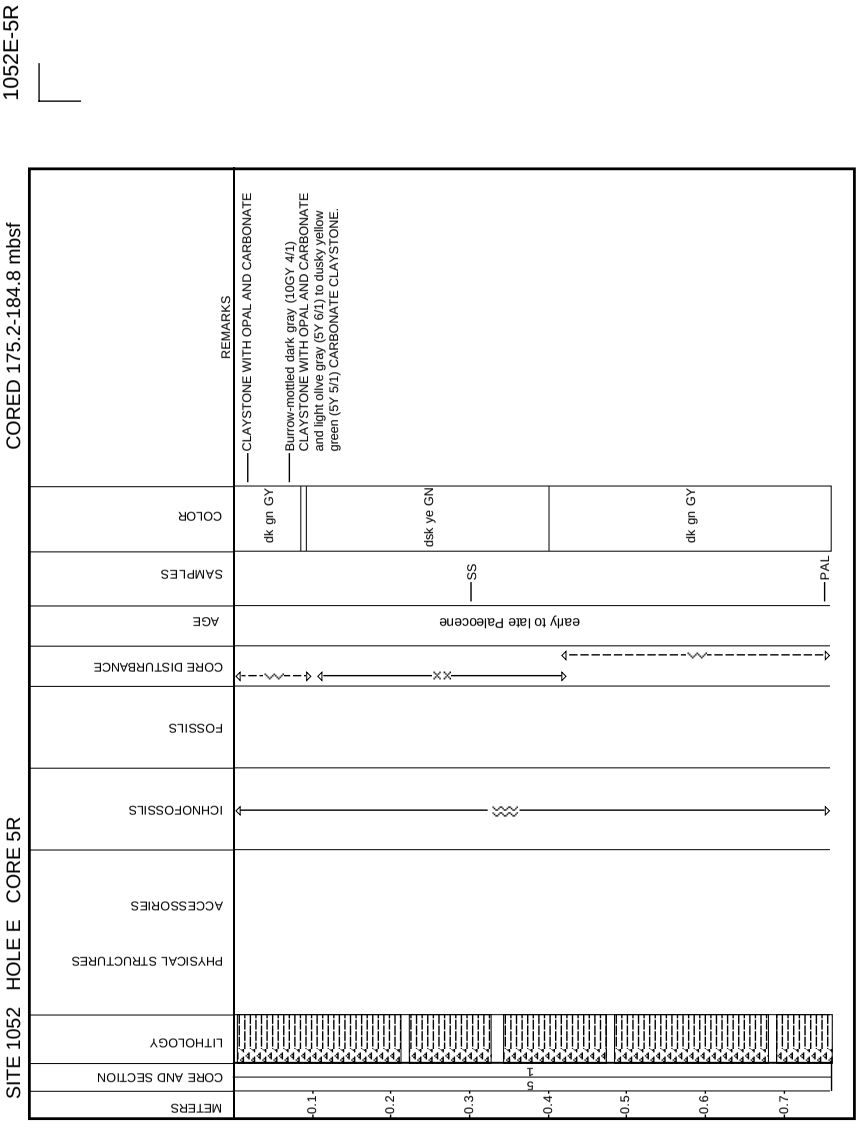


SITE 1052 HOLE E CORE 4R — CORED 165.6-175.2 mbsf

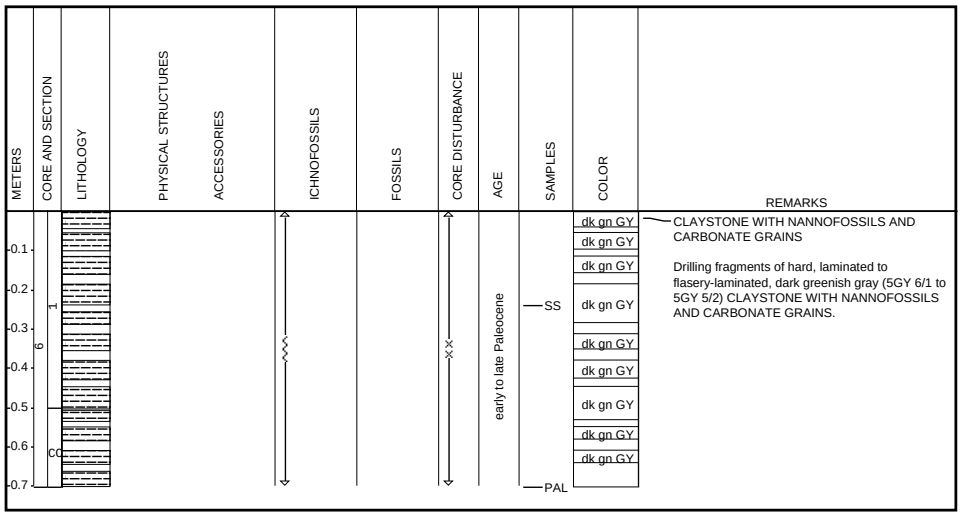


1052E-3R

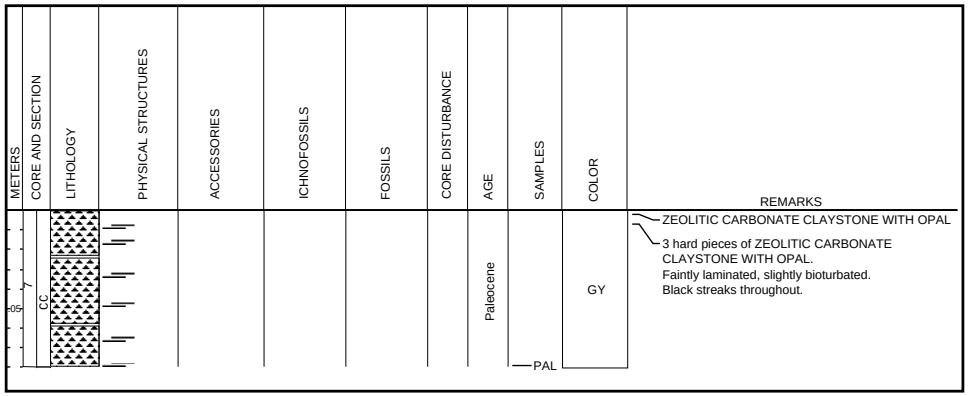
1052E-4R


SITE 1052 HOLE E CORE 5R
CORED 175.2-184.8 mbsf
1052E-5R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
CLAYSTONE WITH OPAL AND CARBONATE
Burrow-mottled dark gray (10GY 4/1) CLAYSTONE WITH OPAL AND CARBONATE and light olive gray (5Y 6/1) to dusky yellow green (5Y 5/1) CARBONATE CLAYSTONE.
dk gn GY
dsk ye GN
dk gn GY
SS
PAL
early to late Paleocene
5
1
0.1
0.2
0.3
0.4
0.5
0.6
0.7

SITE 1052 HOLE E CORE 6R — CORED 184.8-194.4 mbsf



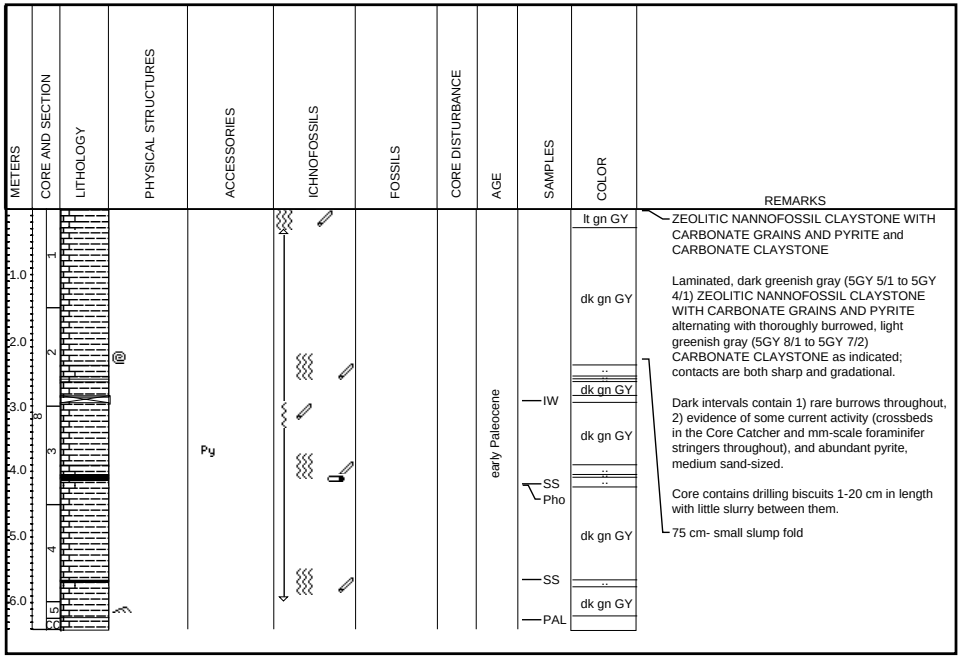
SITE 1052 HOLE E CORE 7R — CORED 194.4-204.0 mbsf



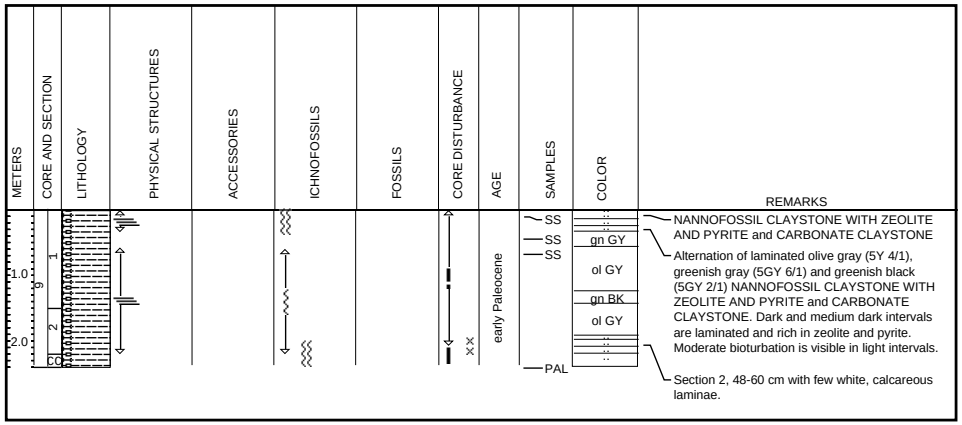
1052E-6R

1052E-7R

SITE 1052 HOLE E CORE 8R — CORED 204.0-213.6 mbsf



SITE 1052 HOLE E CORE 9R — CORED 213.6-223.2 mbsf



SITE 1052 HOLE E CORE 10R

CORED 223.2-232.8 mbsf

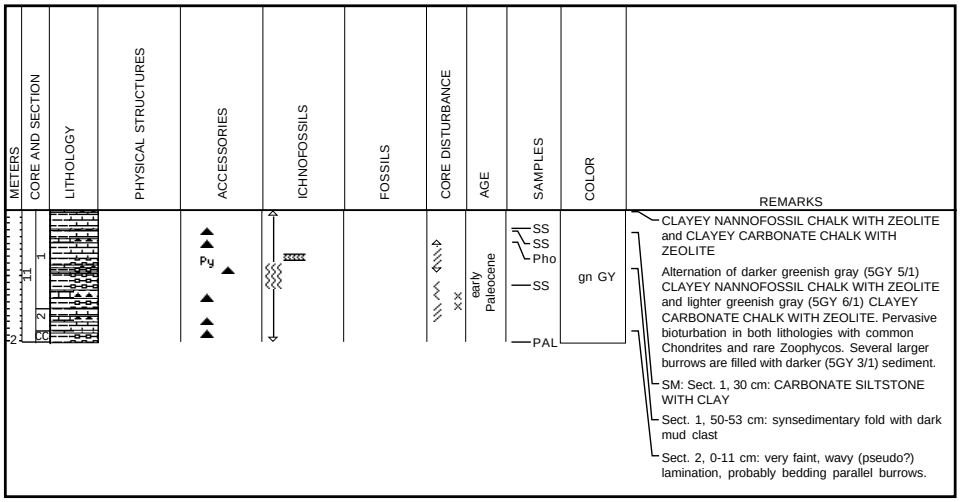
1052E-10R

1052E-11R

1052E-12R

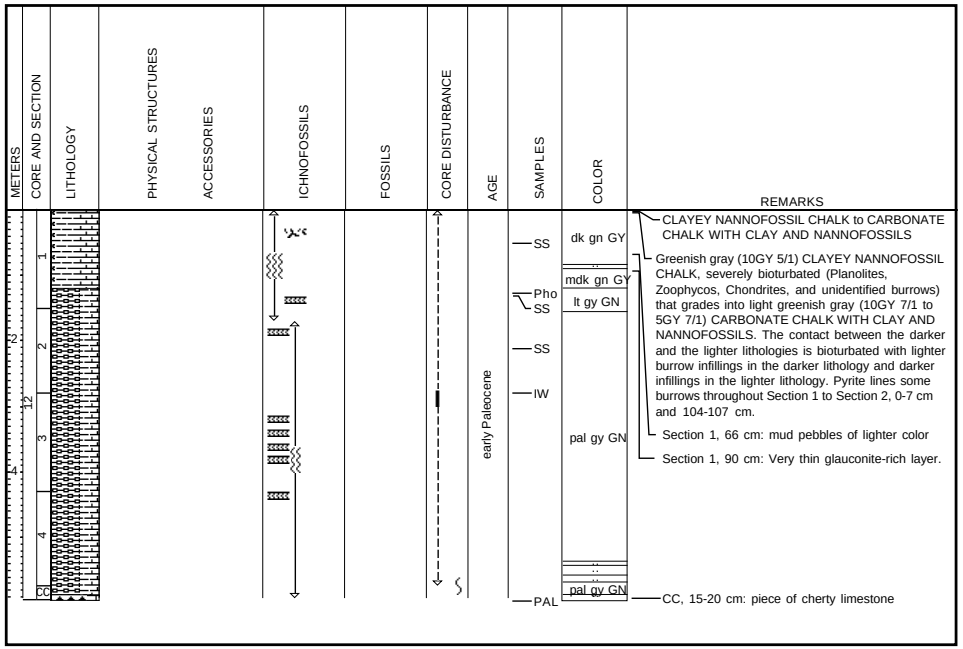
SITE 1052 HOLE E CORE 11R

CORED 232.8-242.4 mbsf



SITE 1052 HOLE E CORE 12R

CORED 242.4-252.0 mbsf



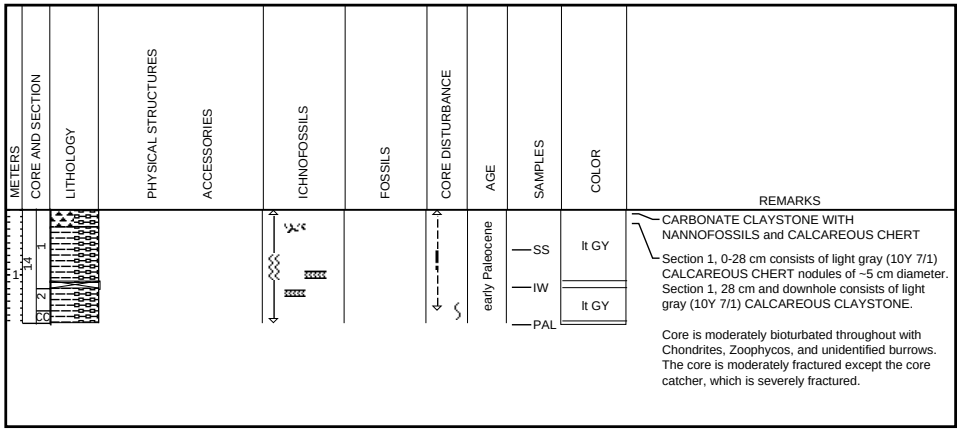
SITE 1052 HOLE E CORE 13R

CORED 252.0-261.7 mbsf

1052E-13R

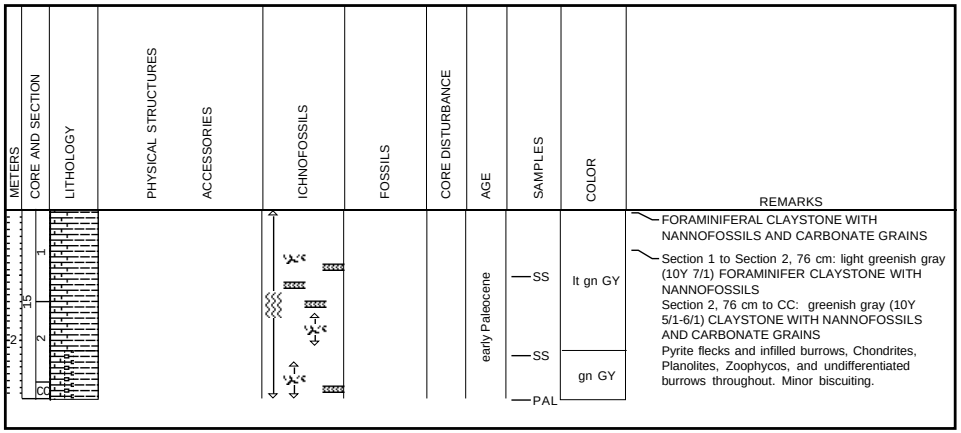
SITE 1052 HOLE E CORE 14R

CORED 261.7-271.3 mbsf



SITE 1052 HOLE E CORE 15R

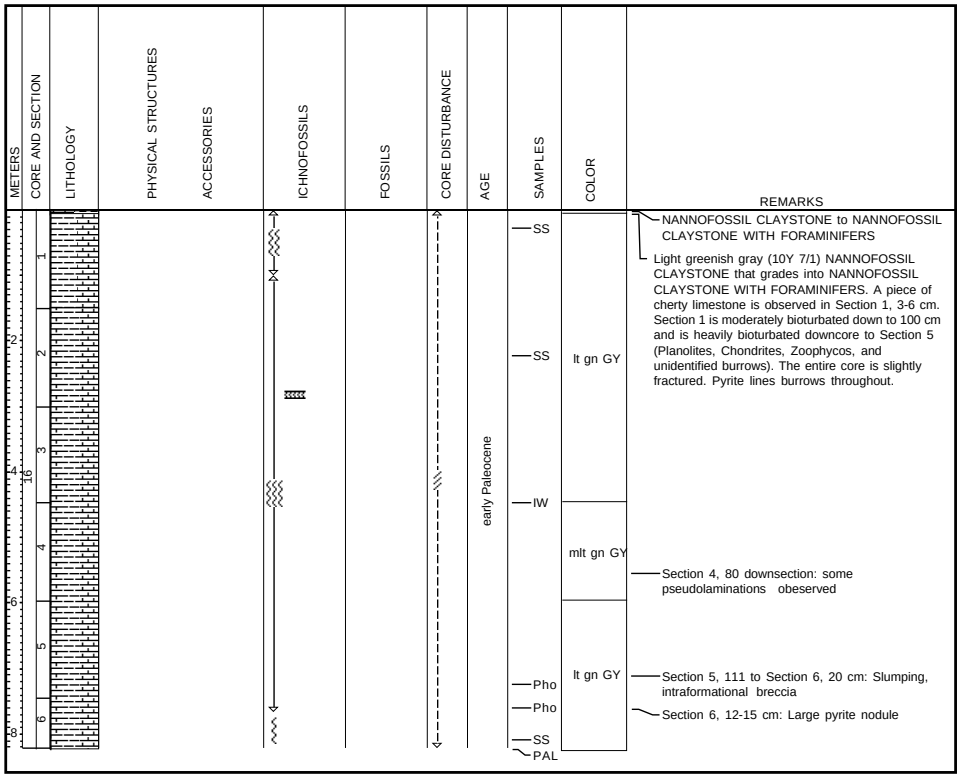
CORED 271.3-280.9 mbsf



SITE 1052 HOLE E CORE 16R

CORED 280.9-290.5 mbsf

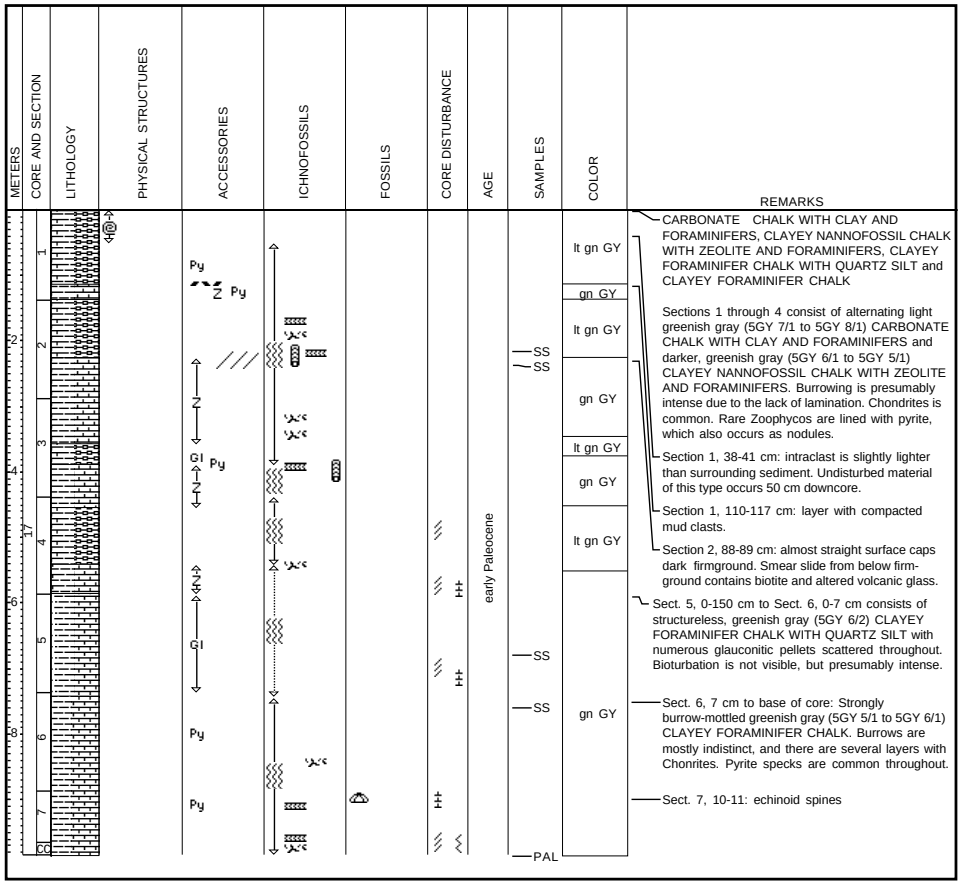
1052E-16R



SITE 1052 HOLE E CORE 17R

CORED 290.5-300.1 mbsf

1052E-17R



SITE 1052 HOLE E CORE 18R — CORED 300.1-309.7 mbsf

SITE 1052 HOLE E CORE 19R — CORED 309.7-319.3 mbsf

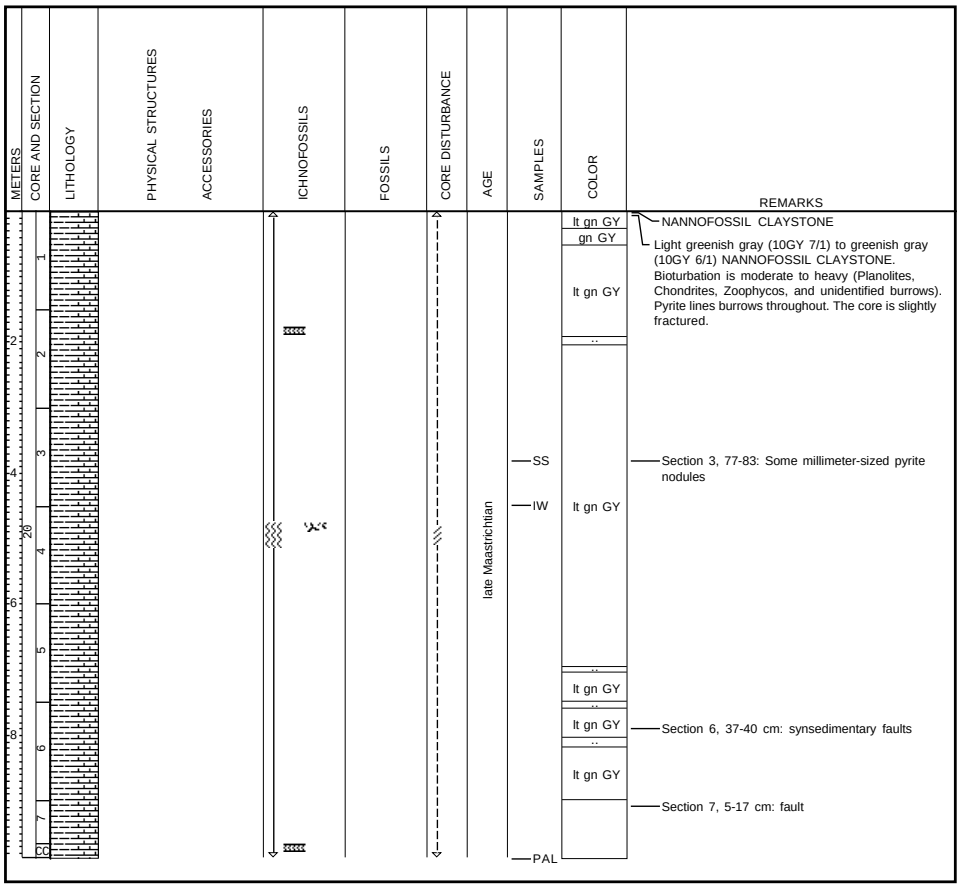
1052E-18R

1052E-19R

SITE 1052 HOLE E CORE 20R

CORED 319.3-328.9 mbsf

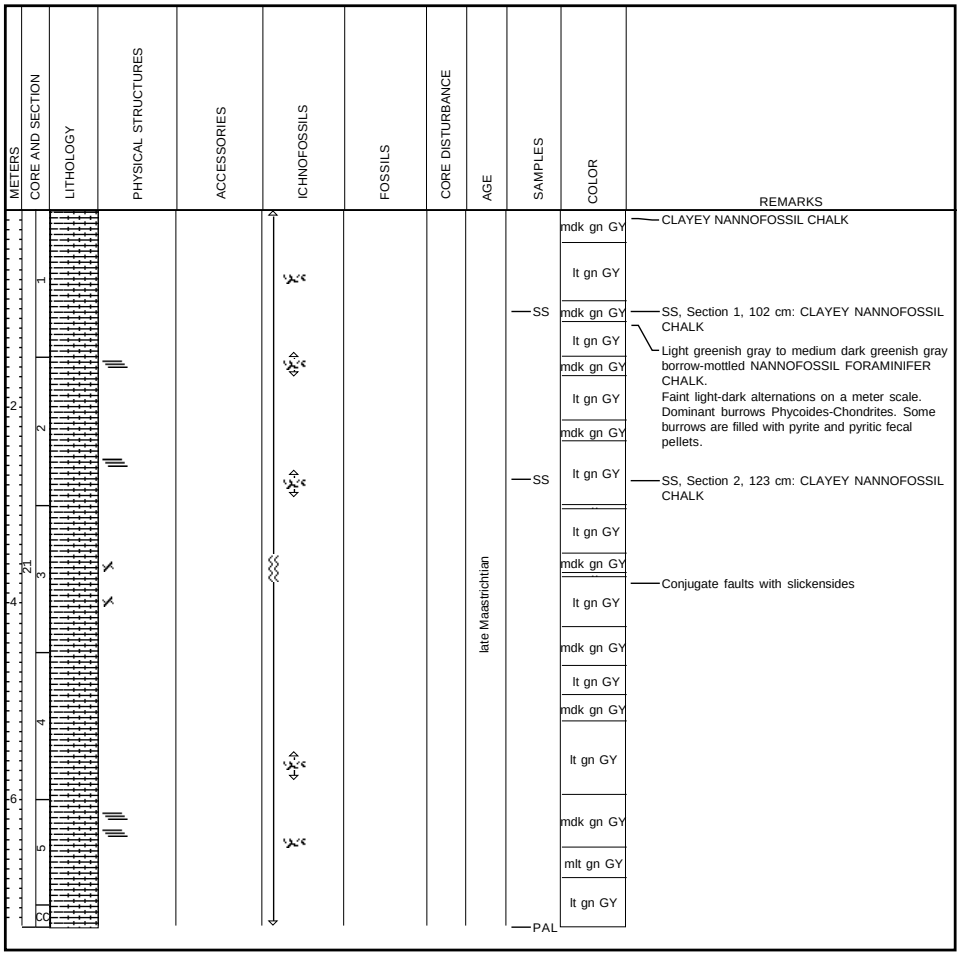
1052E-20R

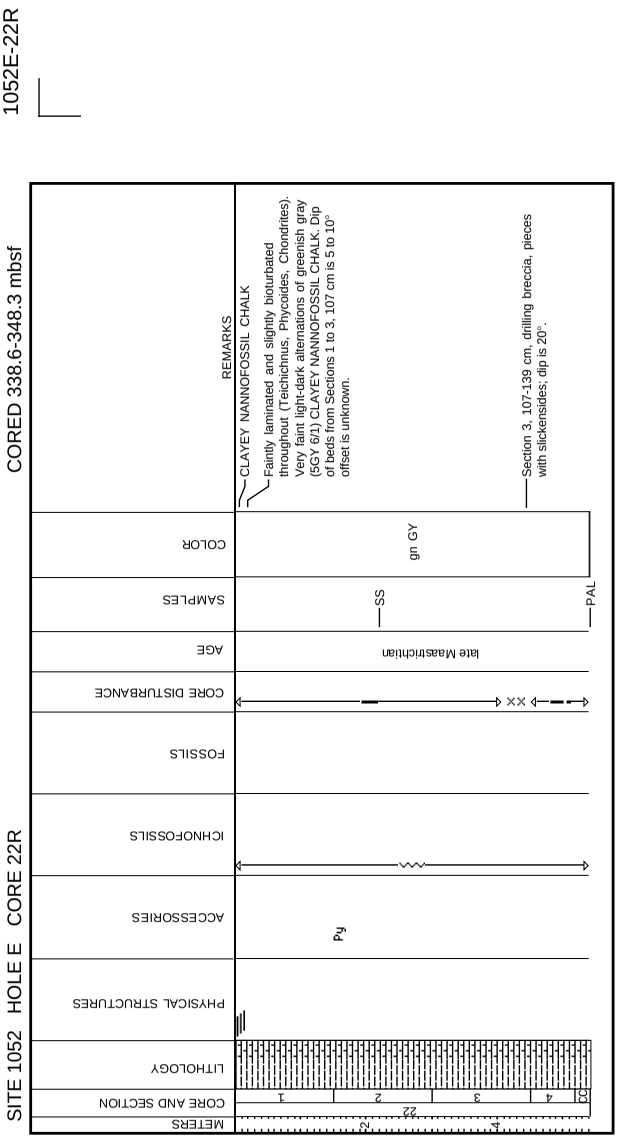


SITE 1052 HOLE E CORE 21R

CORED 328.9-338.6 mbsf

1052E-21R

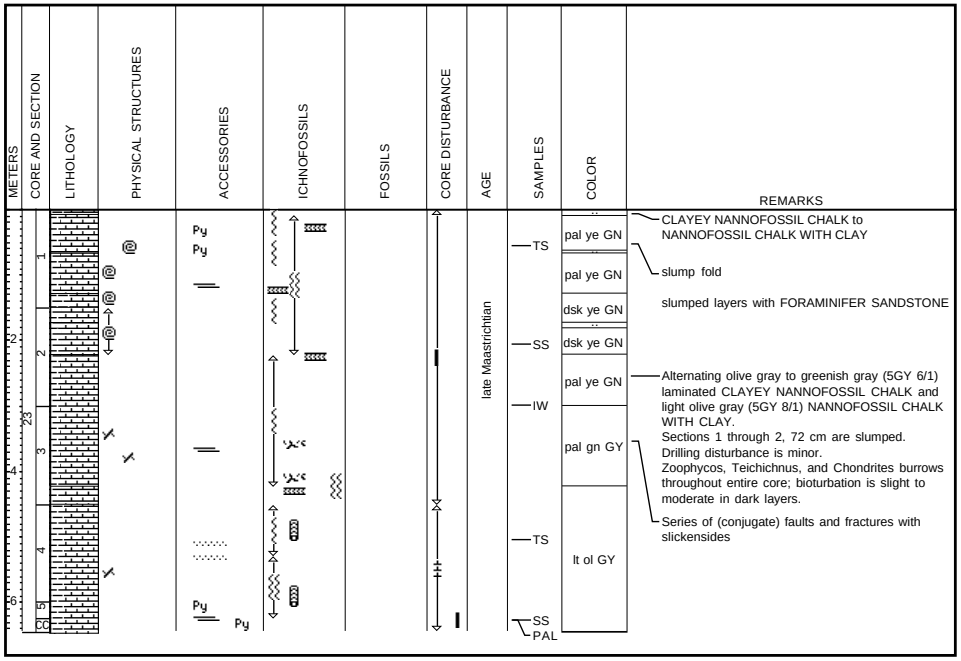



SITE 1052 HOLE E CORE 22R
CORED 338.6-348.3 mbsf
1052E-22R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
Py
late Maastrichtian
SS
PAL
gn GY
CLAYEY NANNOFOSSIL CHALK
Faintly laminated and slightly bioturbated throughout (Teichichnus, Phycodes, Chondrites). Very faint light-dark alternations of greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK. Dip of beds from Sections 1 to 3, 107 cm is 5 to 10°; offset is unknown.
Section 3, 107-139 cm, drilling breccia, pieces with slickensides; dip is 20°.

SITE 1052 HOLE E CORE 23R

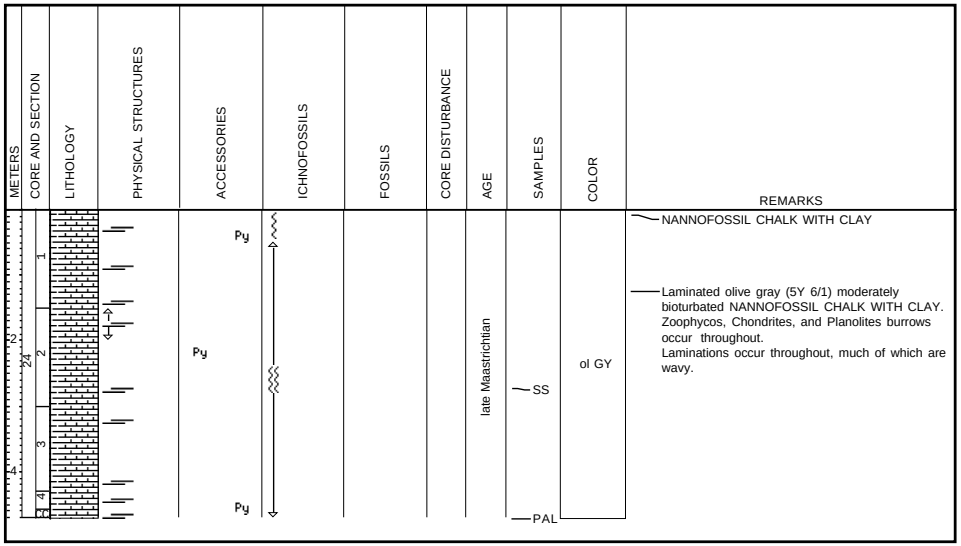
CORED 348.3-357.9 mbsf

1052E-23R



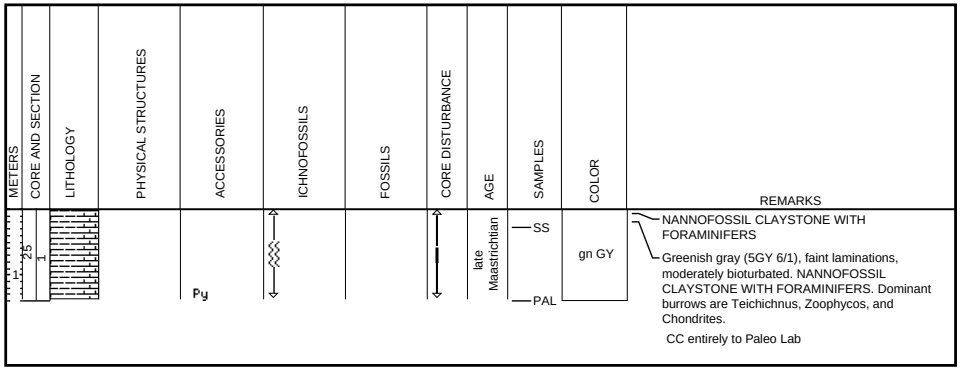
SITE 1052 HOLE E CORE 24R

CORED 357.9-367.5 mbsf



SITE 1052 HOLE E CORE 25R

CORED 367.5-377.1 mbsf



SITE 1052 HOLE E CORE 26R

CORED 377.1-386.7 mbsf

1052E-26R

NANNOFOSSIL CLAYSTONE

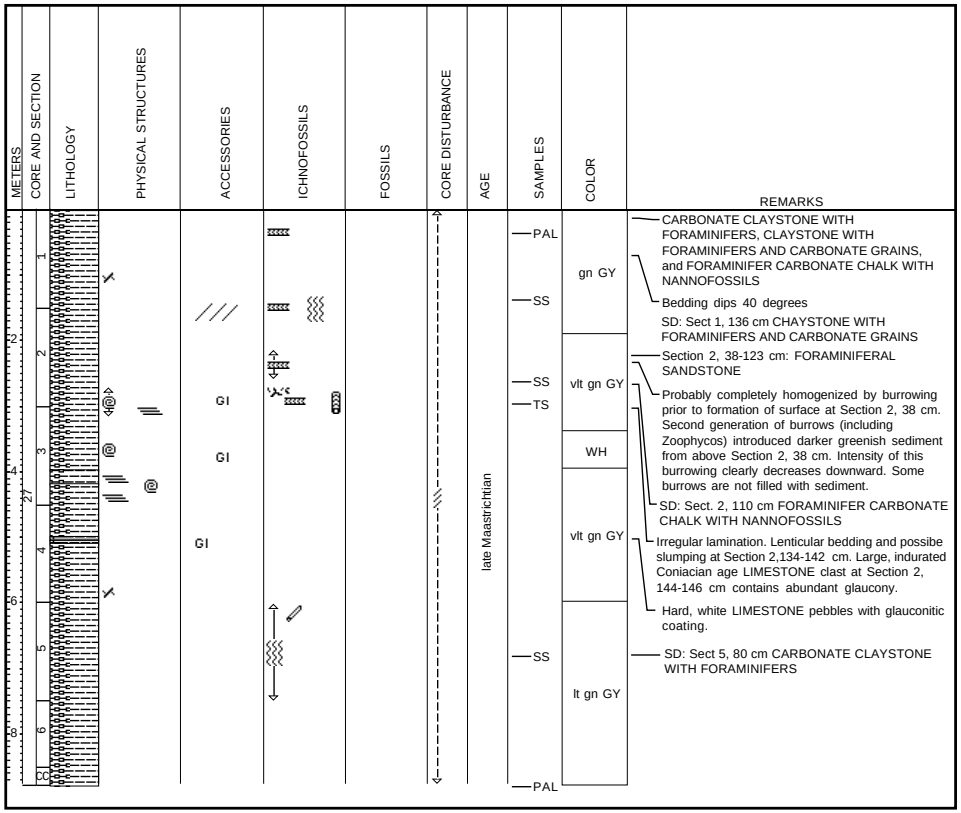
Gray (10Y 5/1) NANNOFOSSIL CLAYSTONE, alternately laminated with slight bioturbation, to more coarsely laminated (cm-scale), coarser-grained (more foraminifer-rich) with moderate to heavy bioturbation, particularly in Sections 6 through CC. There are Teichichnus, Zoophycos, and unidentified burrows throughout the core. Pyrite is ubiquitous as blebs and burrow fill.

Numerous fractures with slickensides occur throughout the core as indicated. Beds dip 15 degrees in Section 1, 0-19 cm, 5 degrees in Section 3, 0-22 cm, and 20 degrees in Section 4, 0-116 cm.

116 cm: sharp color change; greenish gray (6GY 5/1) from 116 to 135 cm.

SITE 1052 HOLE E CORE 27R CORED 386.7-396.3 mbsf

1052E-27R



SITE 1052 HOLE E CORE 28R

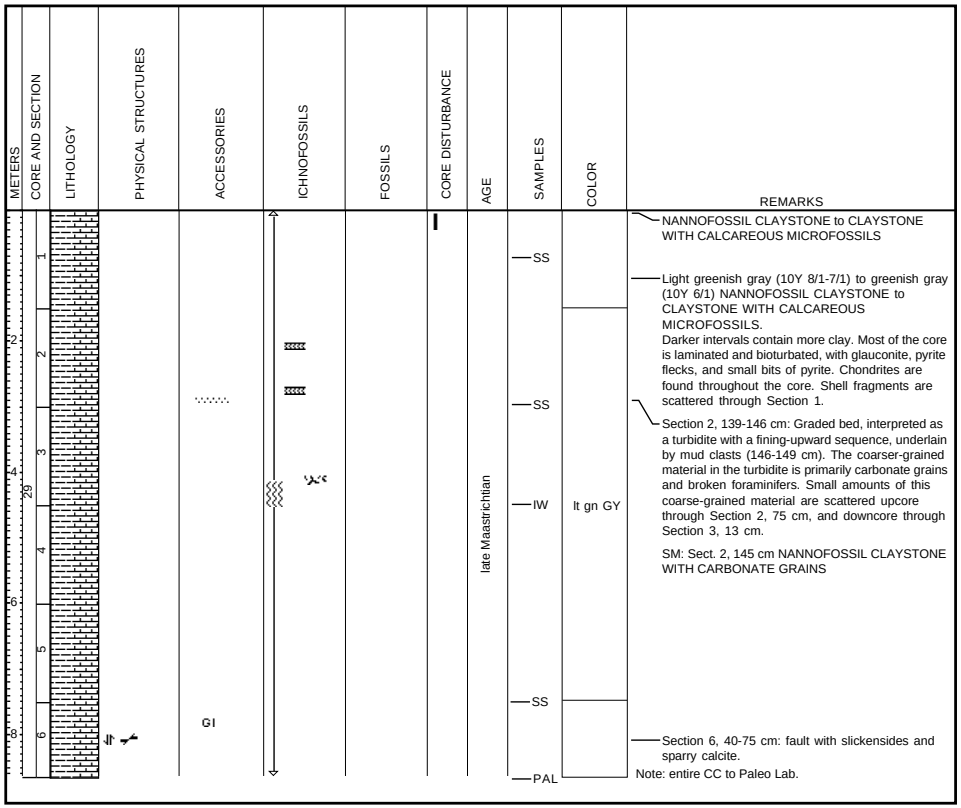
CORED 396.3-405.9 mbsf

1052E-28R

SITE 1052 HOLE E CORE 29R

CORED 405.9-415.5 mbsf

1052E-29R



SITE 1052 HOLE E CORE 30R

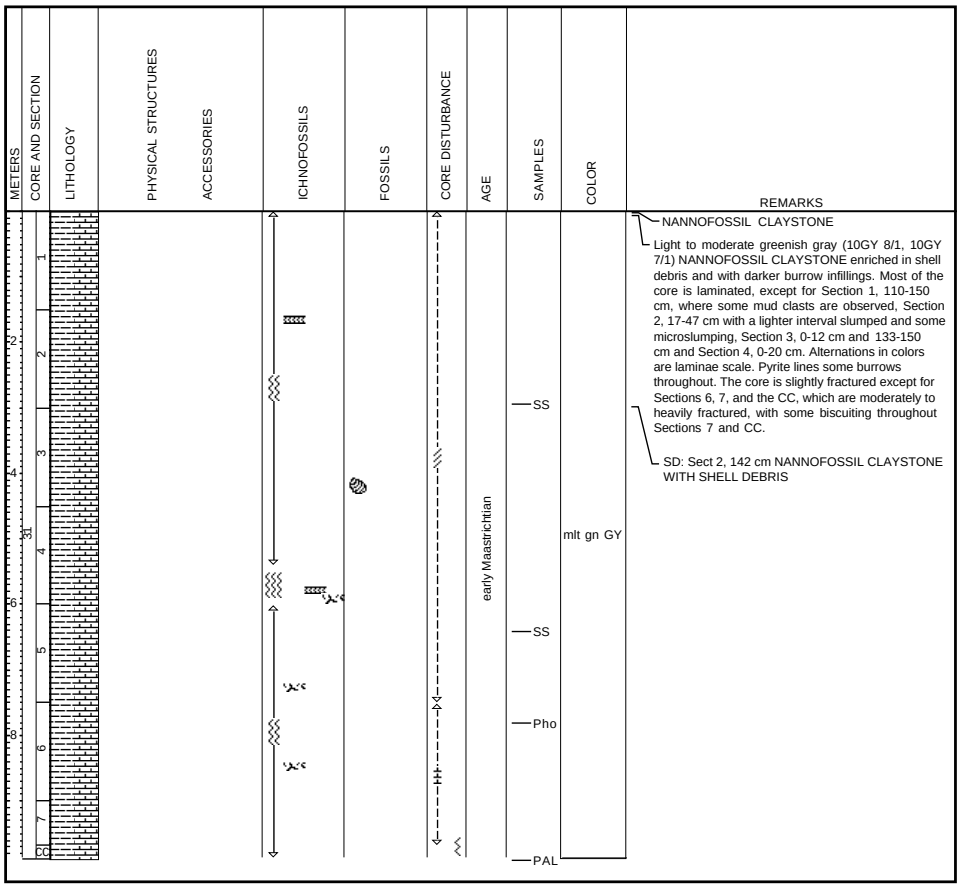
CORED 415.5-425.1 mbsf

1052E-30R

SITE 1052 HOLE E CORE 31R

CORED 425.1-434.7 mbsf

1052E-31R



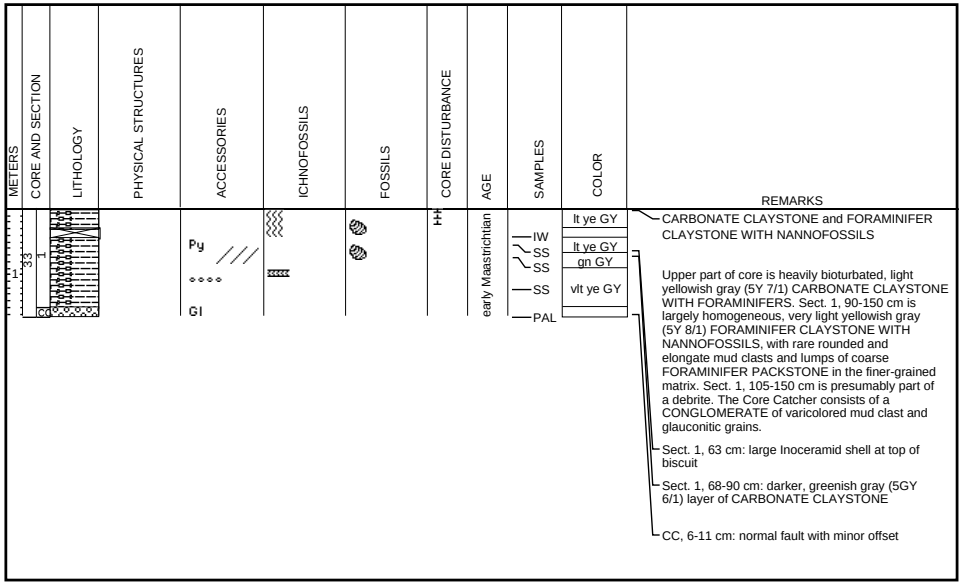
1052E-32R NO RECOVERY

1052E-33R

1052E-34R

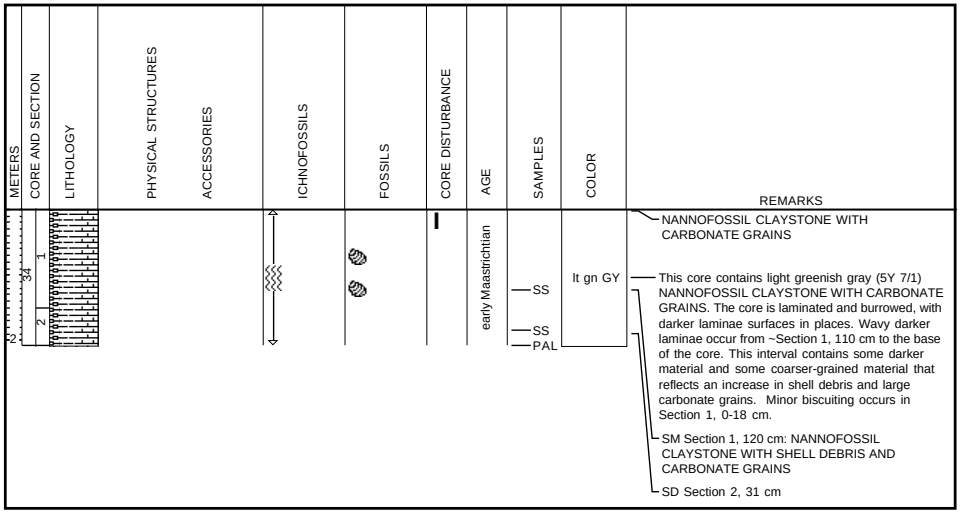
SITE 1052 HOLE E CORE 33R

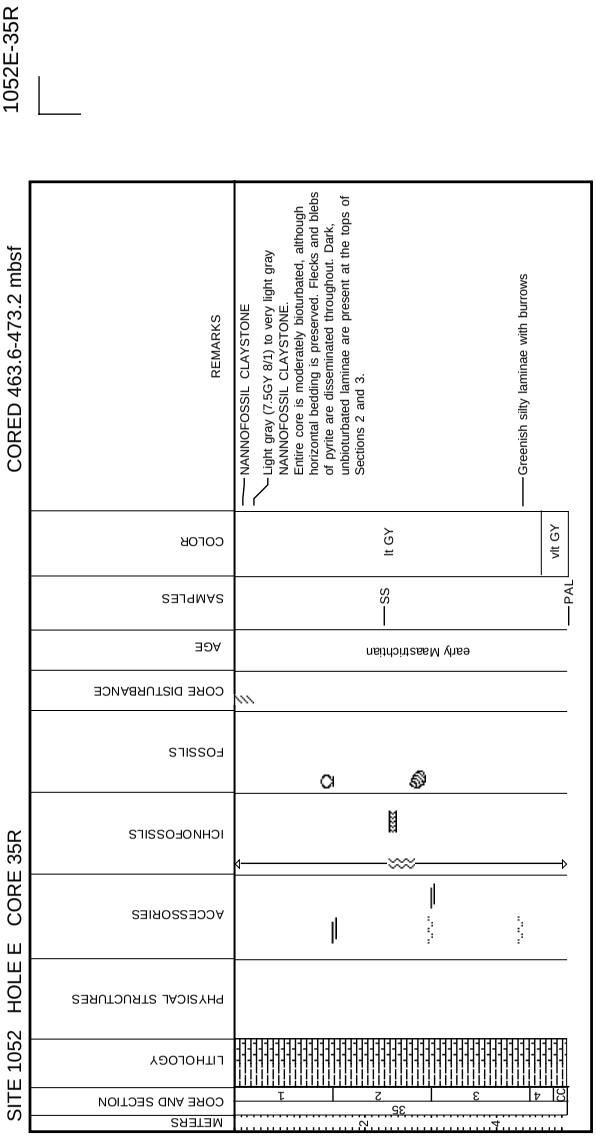
CORED 444.3-453.9 mbsf



SITE 1052 HOLE E CORE 34R

CORED 453.9-463.6 mbsf

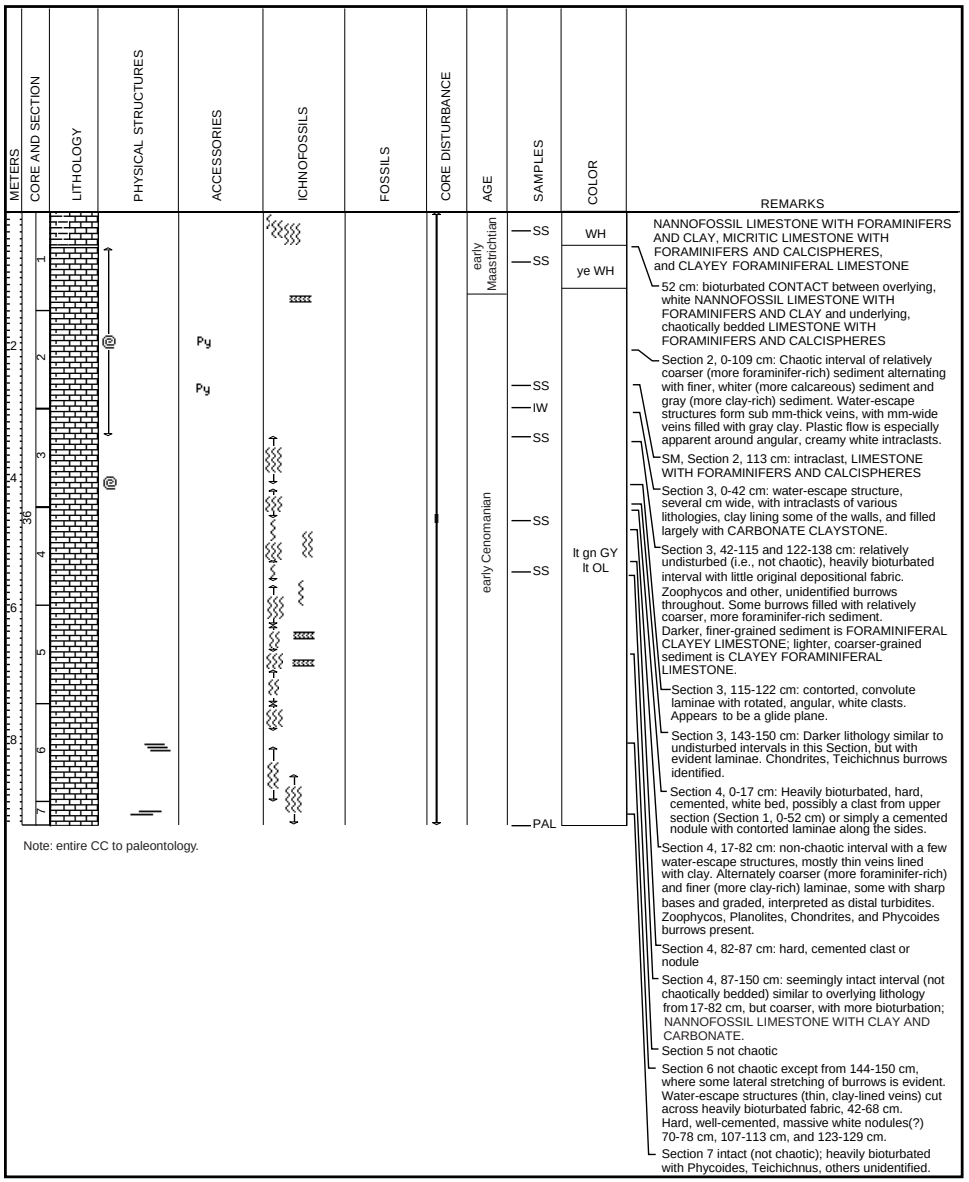



SITE 1052 HOLE E CORE 35R
CORED 463.6-473.2 mbsf
1052E-35R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
early Maastrichtian
SS
PAL
lt GY
vlt GY
NANNOFOSSIL CLAYSTONE
Light gray (7.5GY 8/1) to very light gray NANNOFOSSIL CLAYSTONE.
Entire core is moderately bioturbated, although horizontal bedding is preserved. Flecks and blebs of pyrite are disseminated throughout. Dark, unbioturbated laminae are present at the tops of Sections 2 and 3.
Greenish silty laminae with burrows

SITE 1052 HOLE E CORE 36R

CORED 473.2-482.8 mbsf

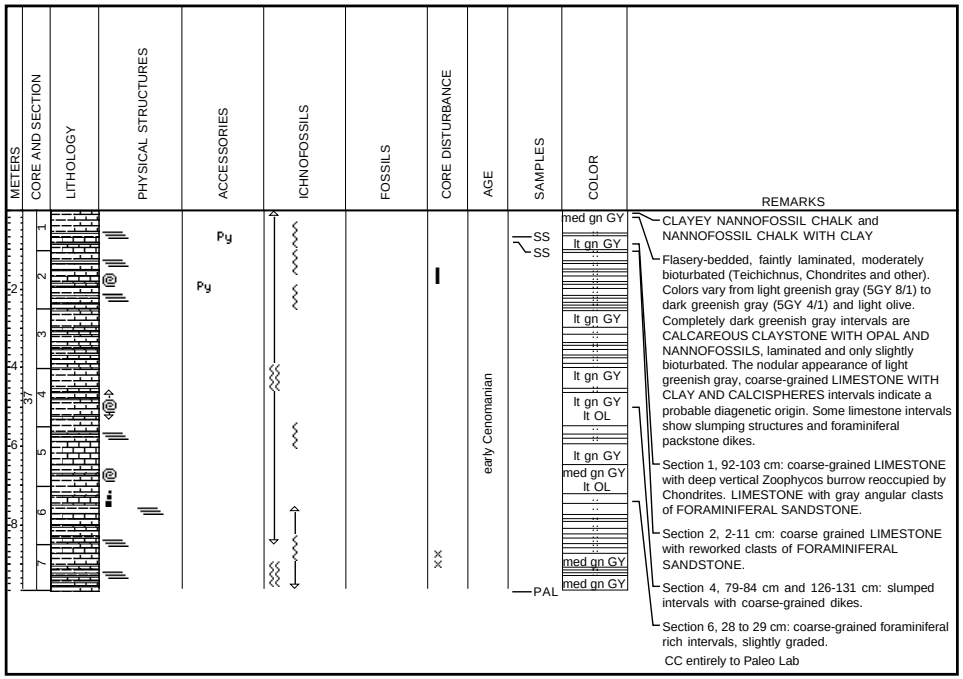
1052E-36R



SITE 1052 HOLE E CORE 37R

CORED 482.8-492.4 mbsf

1052E-37R



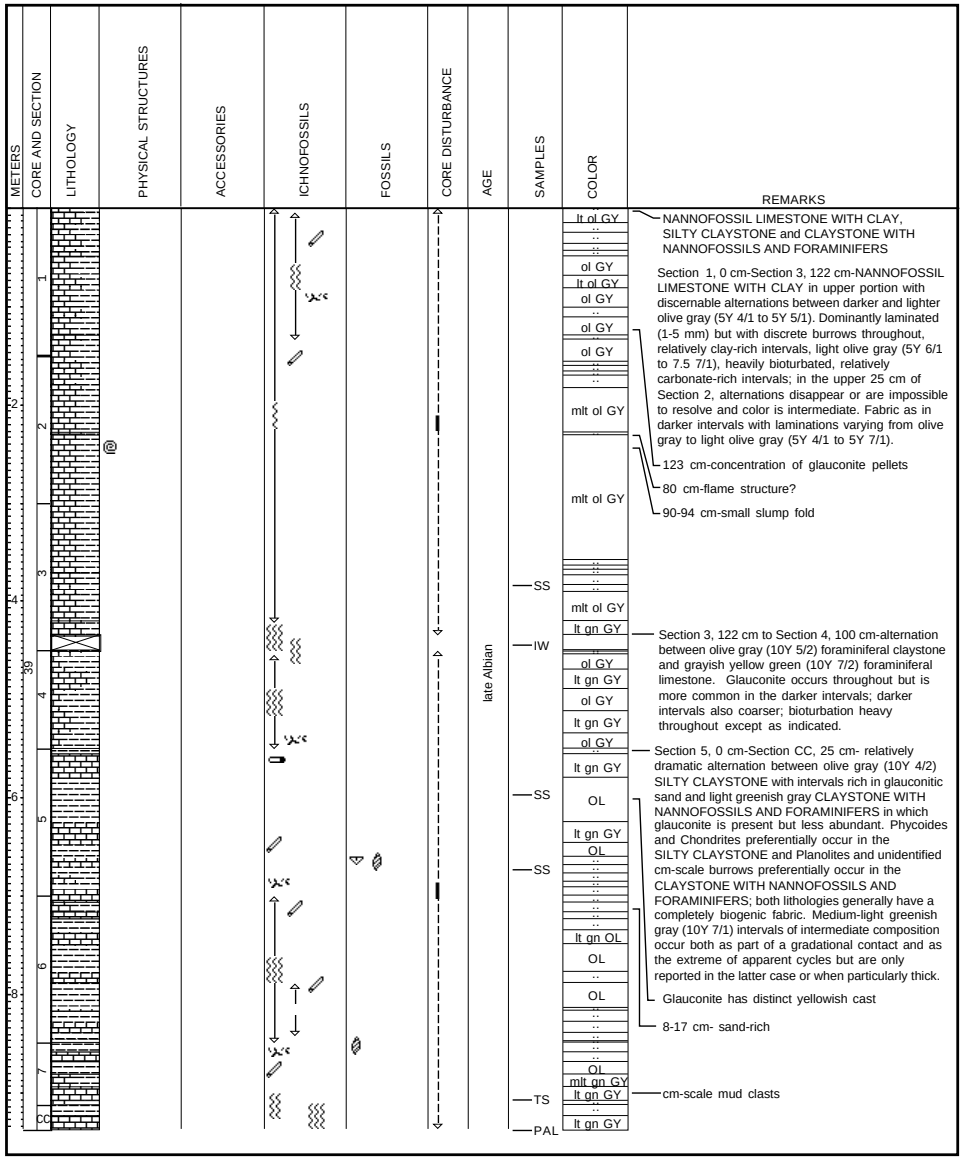
SITE 1052 HOLE E CORE 38R

CORED 492.4-502.0 mbsf

1052E-38R

SITE 1052 HOLE E CORE 39R CORED 502.0-510.6 mbsf

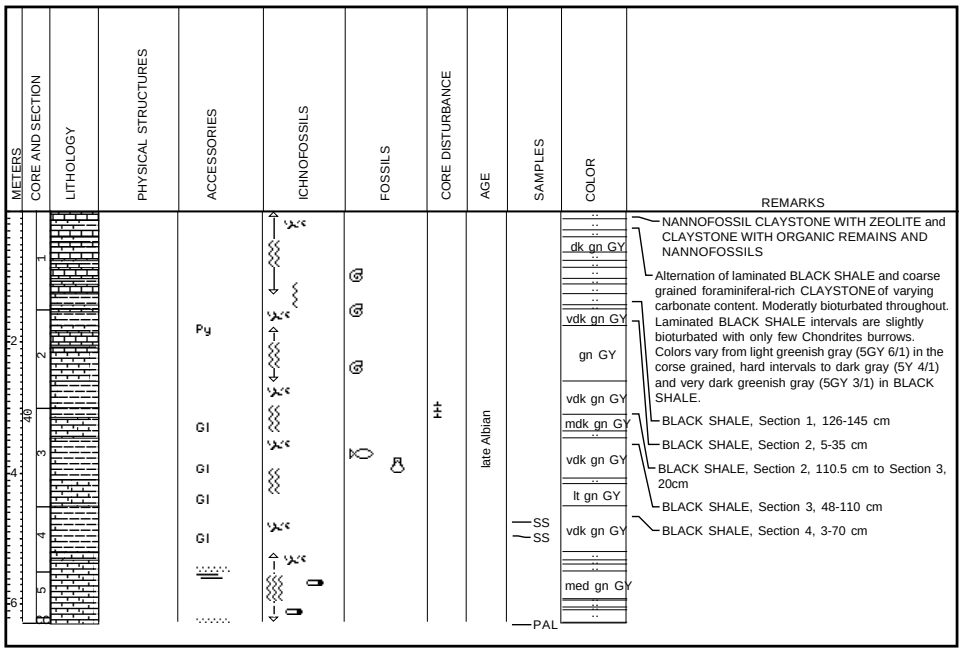
1052E-39R



SITE 1052 HOLE E CORE 40R

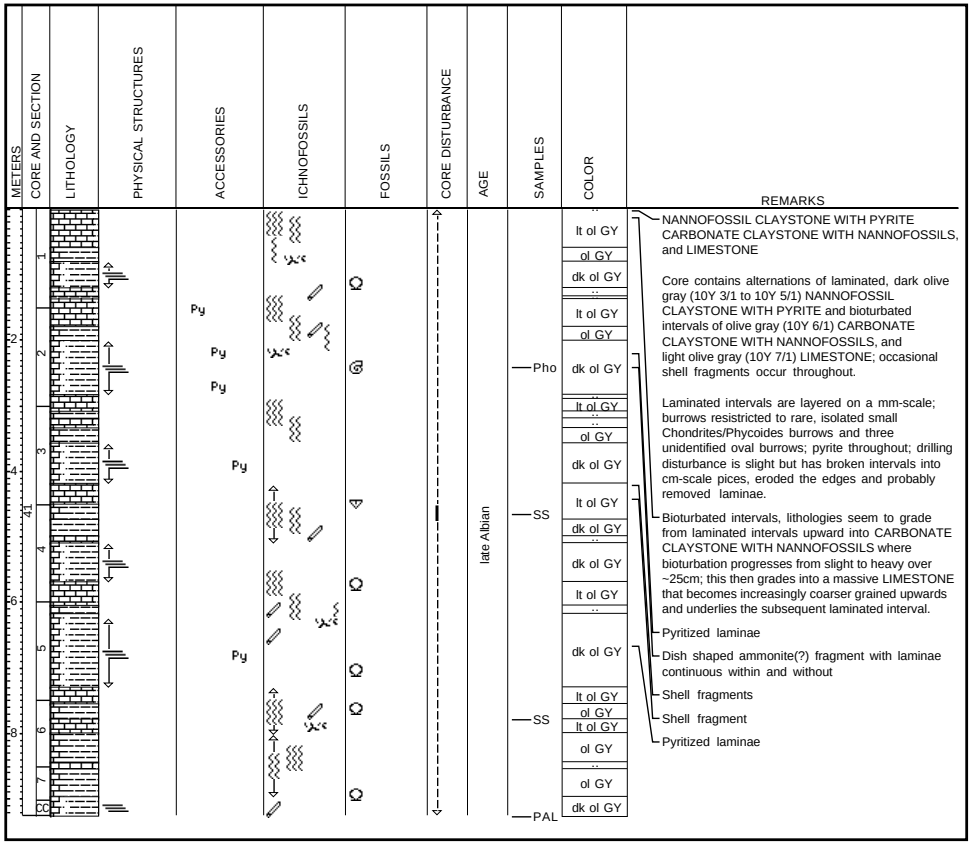
CORED 510.6-520.3 mbsf

1052E-40R



SITE 1052 HOLE E CORE 41R CORED 520.3-529.9 mbsf

1052E-41R

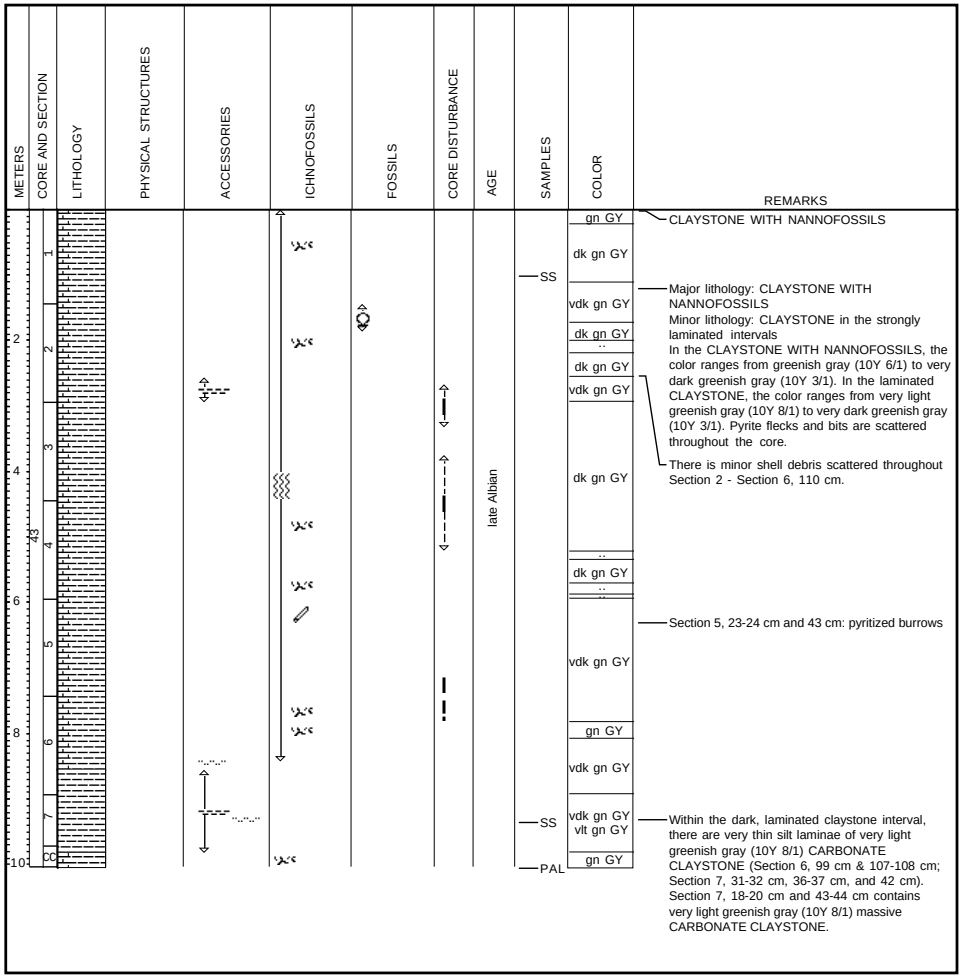


SITE 1052 HOLE E CORE 42R

CORED 529.9-539.5 mbsf

1052E-42R

SITE 1052 HOLE E CORE 43R CORED 539.5-549.1 mbsf



SITE 1052 HOLE E CORE 44R

CORED 549.1-558.7 mbsf

1052E-44R

SITE 1052 HOLE E CORE 45R CORED 558.7-568.3 mbsf

1052E-45R

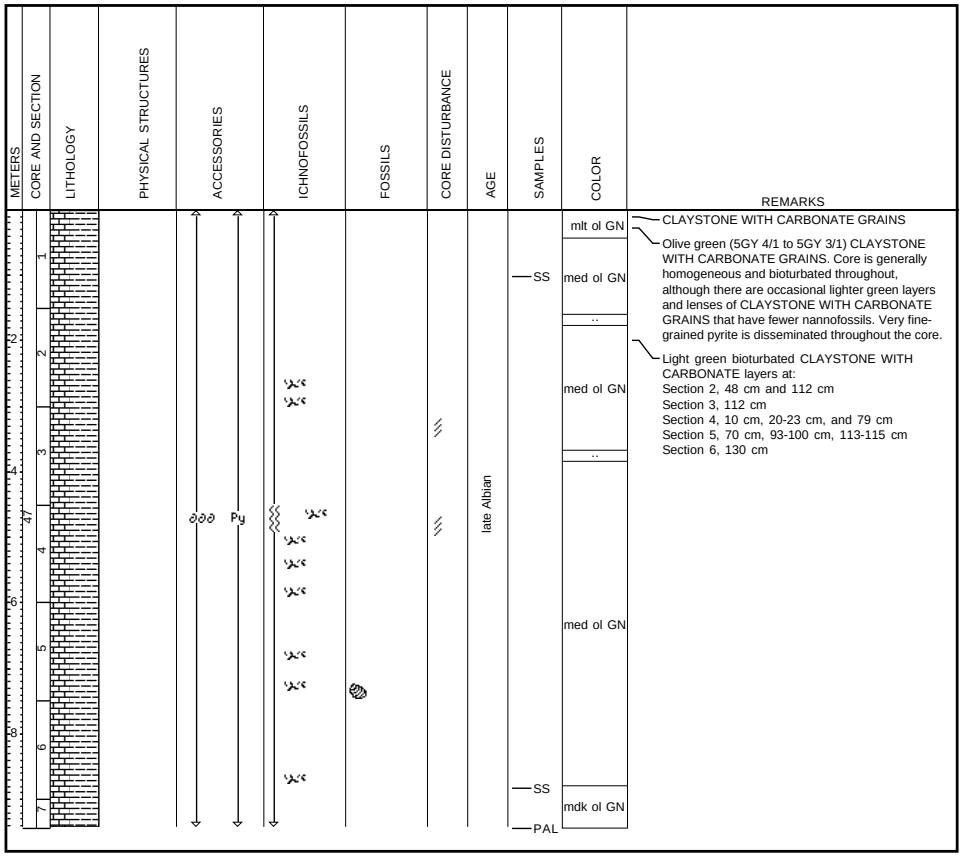
SITE 1052 HOLE E CORE 46R

CORED 568.3-578.0 mbsf

1052E-46R

SITE 1052 HOLE E CORE 47R CORED 578.0-587.6 mbsf

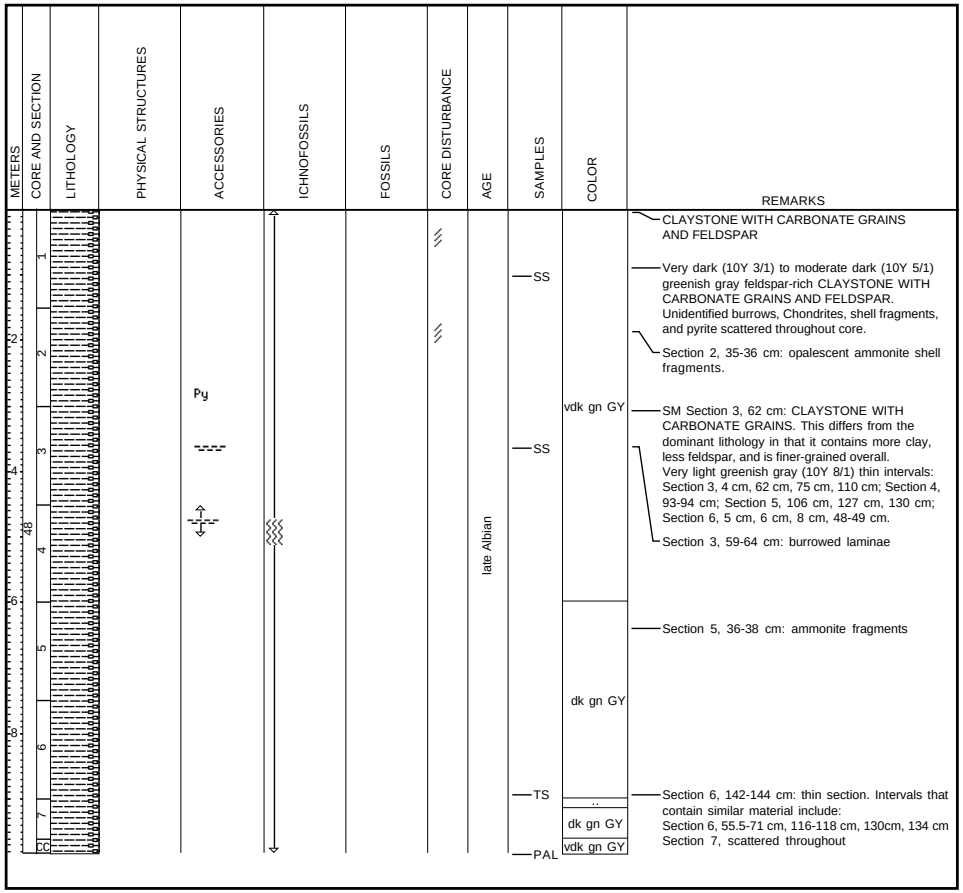
1052E-47R



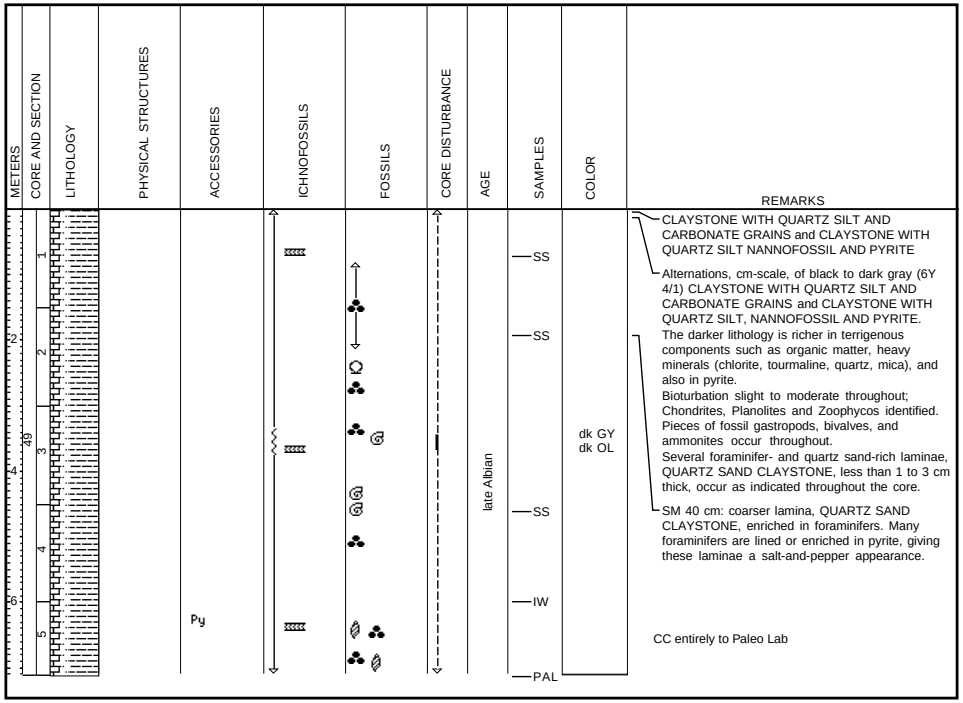
SITE 1052 HOLE E CORE 48R

CORED 587.6-597.3 mbsf

1052E-48R



SITE 1052 HOLE E CORE 49R CORED 597.3-606.9 mbsf



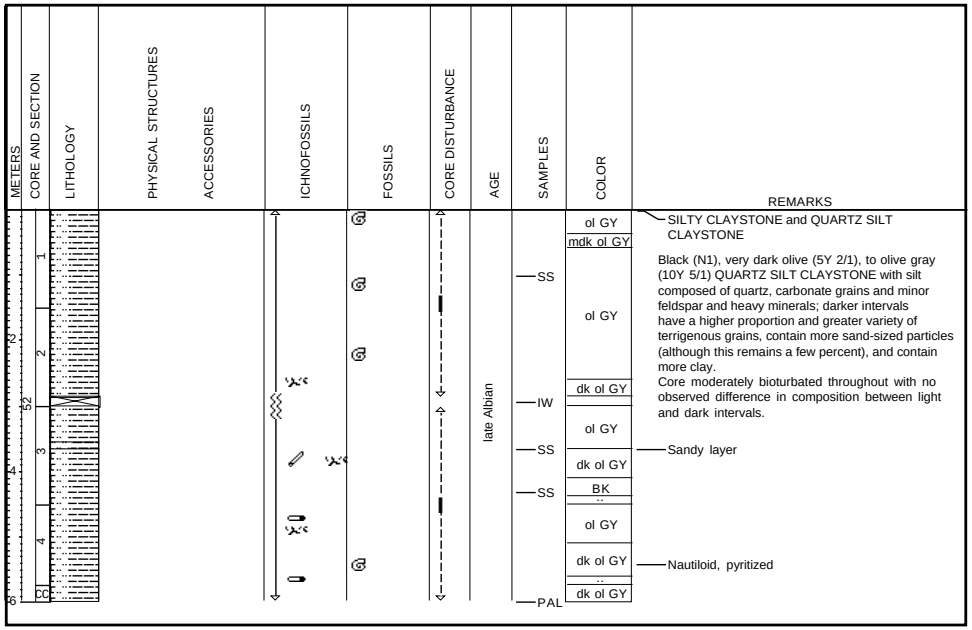
SITE 1052 HOLE E CORE 50R — CORED 606.9-616.6 mbsf

1052E-50R

SITE 1052 HOLE E CORE 51R — CORED 616.6-621.7 mbsf

1052E-51R

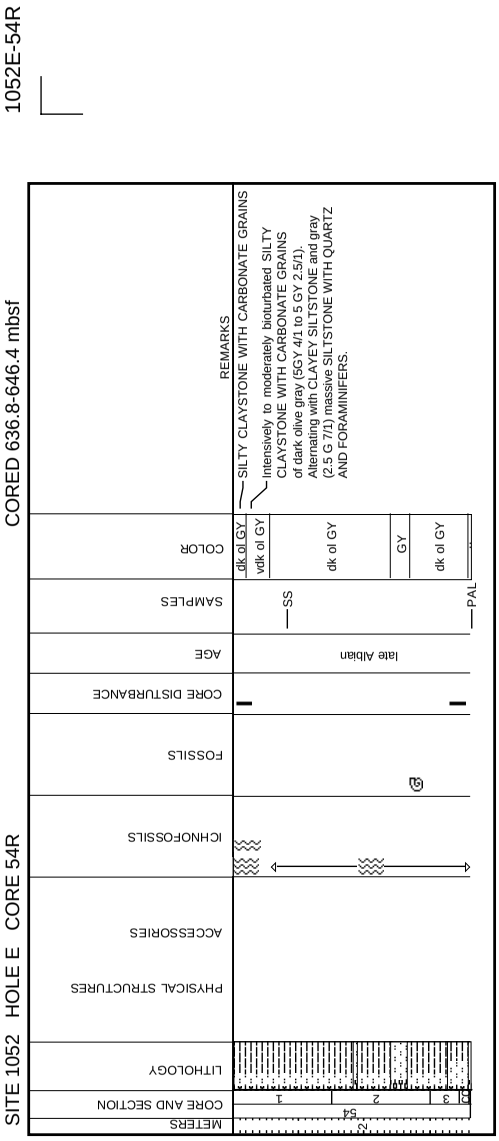
SITE 1052 HOLE E CORE 52R CORED 621.7-627.2 mbsf



SITE 1052 HOLE E CORE 53R

CORED 627.2-636.8 mbsf

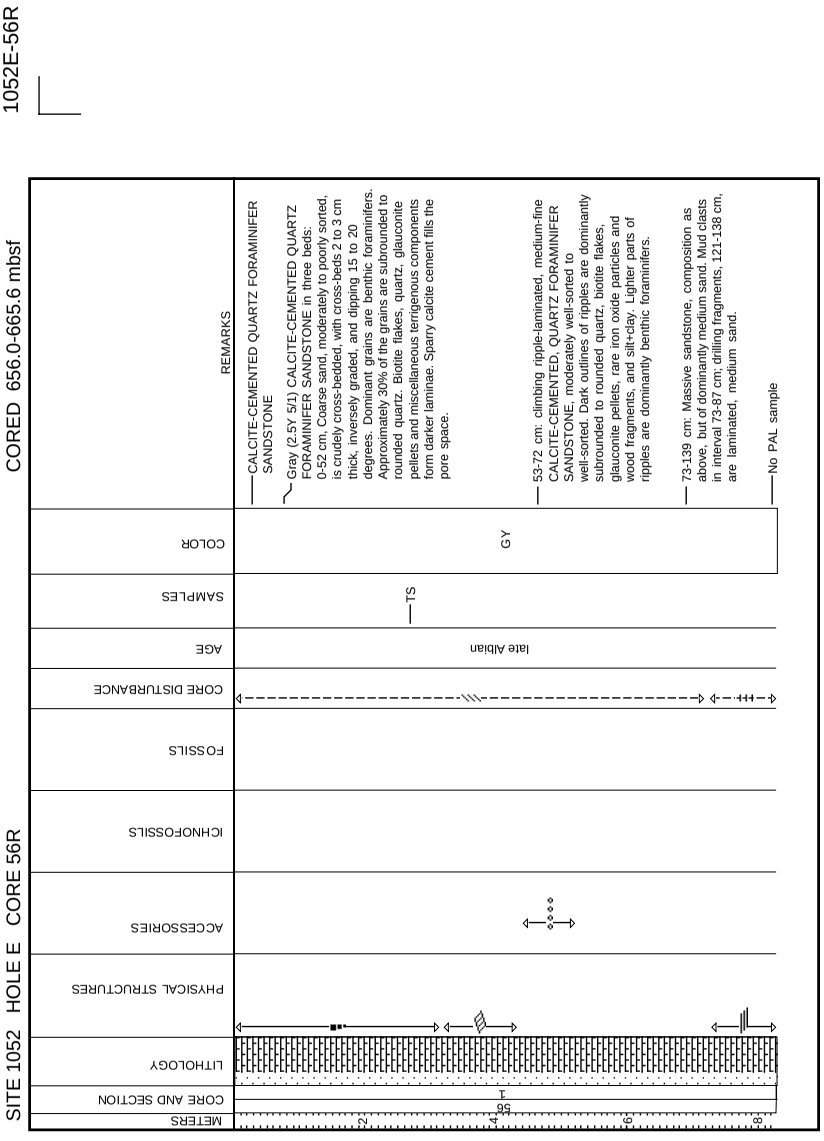
1052E-53R


SITE 1052 HOLE E CORE 54R
CORED 636.8-646.4 mbsf
1052E-54R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Albian
SS
PAL
dk ol GY
vdk ol GY
dk ol GY
GY
dk ol GY
SILTY CLAYSTONE WITH CARBONATE GRAINS
Intensively to moderately bioturbated SILTY CLAYSTONE WITH CARBONATE GRAINS of dark olive gray (5GY 4/1 to 5 GY 2.5/1). Alternating with CLAYEY SILTSTONE and gray (2.5 G 7/1) massive SILTSTONE WITH QUARTZ AND FORAMINIFERS.

SITE 1052 HOLE E CORE 55R

CORED 646.4-656.0 mbsf

1052E-55R


SITE 1052 HOLE E CORE 56R
CORED 656.0-665.6 mbsf
1052E-56R
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
late Albian
TS
GY
CALCITE-CEMENTED QUARTZ FORAMINIFER SANDSTONE
Gray (2.5Y 5/1) CALCITE-CEMENTED QUARTZ FORAMINIFER SANDSTONE in three beds: 0-52 cm, Coarse sand, moderately to poorly sorted, is crudely cross-bedded, with cross-beds 2 to 3 cm thick, inversely graded, and dipping 15 to 20 degrees. Dominant grains are benthic foraminifers. Approximately 30% of the grains are subrounded to rounded quartz. Biotite flakes, quartz, glauconite pellets and miscellaneous terrigenous components form darker laminae. Sparry calcite cement fills the pore space.
53-72 cm: climbing ripple-laminated, medium-fine CALCITE-CEMENTED, QUARTZ FORAMINIFER SANDSTONE, moderately well-sorted to well-sorted. Dark outlines of ripples are dominantly subrounded to rounded quartz, biotite flakes, glauconite pellets, rare iron oxide particles and wood fragments, and silt+clay. Lighter parts of ripples are dominantly benthic foraminifers.
73-139 cm: Massive sandstone, composition as above, but of dominantly medium sand. Mud clasts in interval 73-87 cm; drilling fragments, 121-138 cm, are laminated, medium sand.
No PAL sample

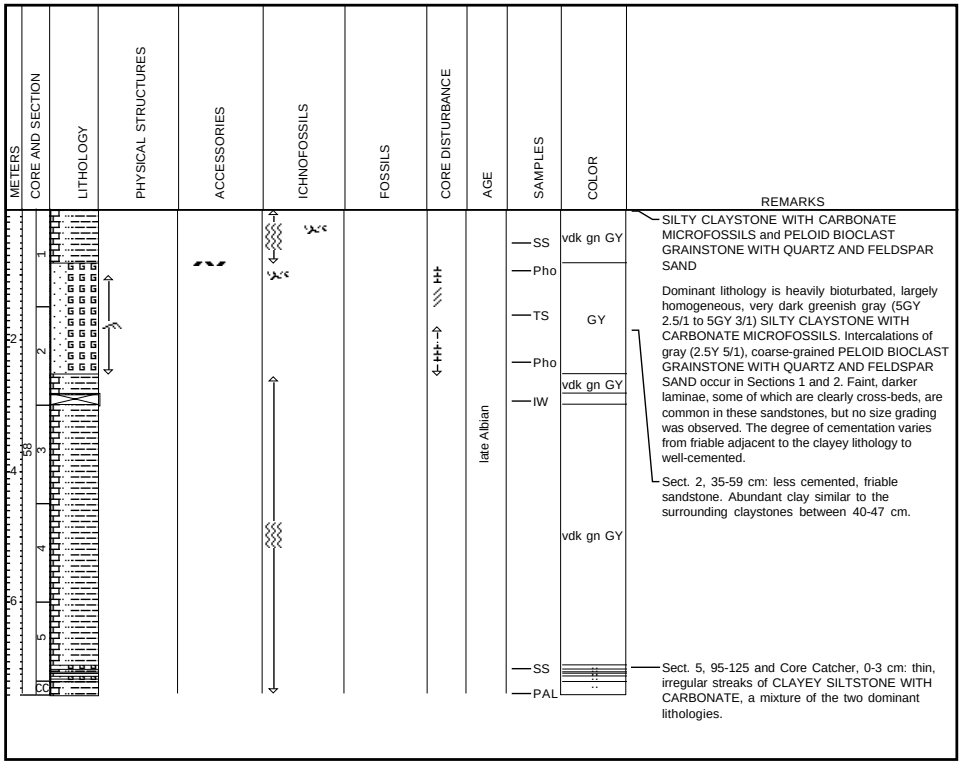
SITE 1052 HOLE E CORE 57R

CORED 665.6-675.2 mbsf

1052E-57R

SITE 1052 HOLE E CORE 58R CORED 675.2-684.8 mbsf

1052E-58R

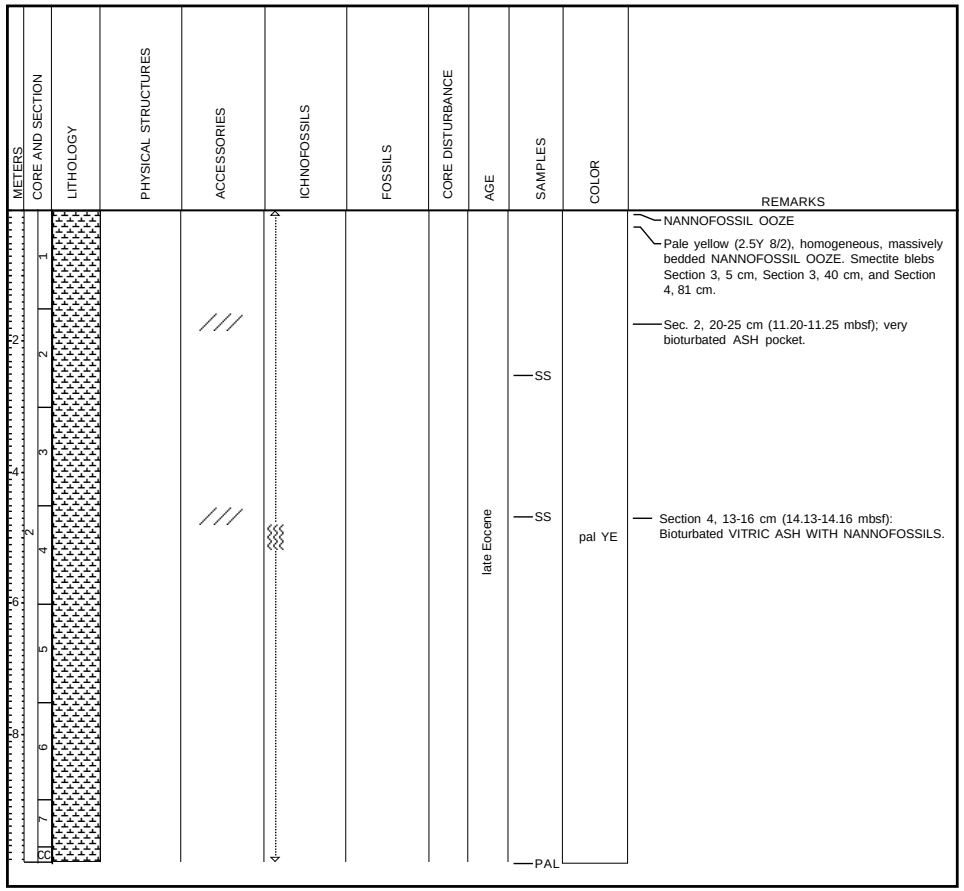


SITE 1052 HOLE F CORE 1H

CORED 0-9.5 mbsf

1052F-1H

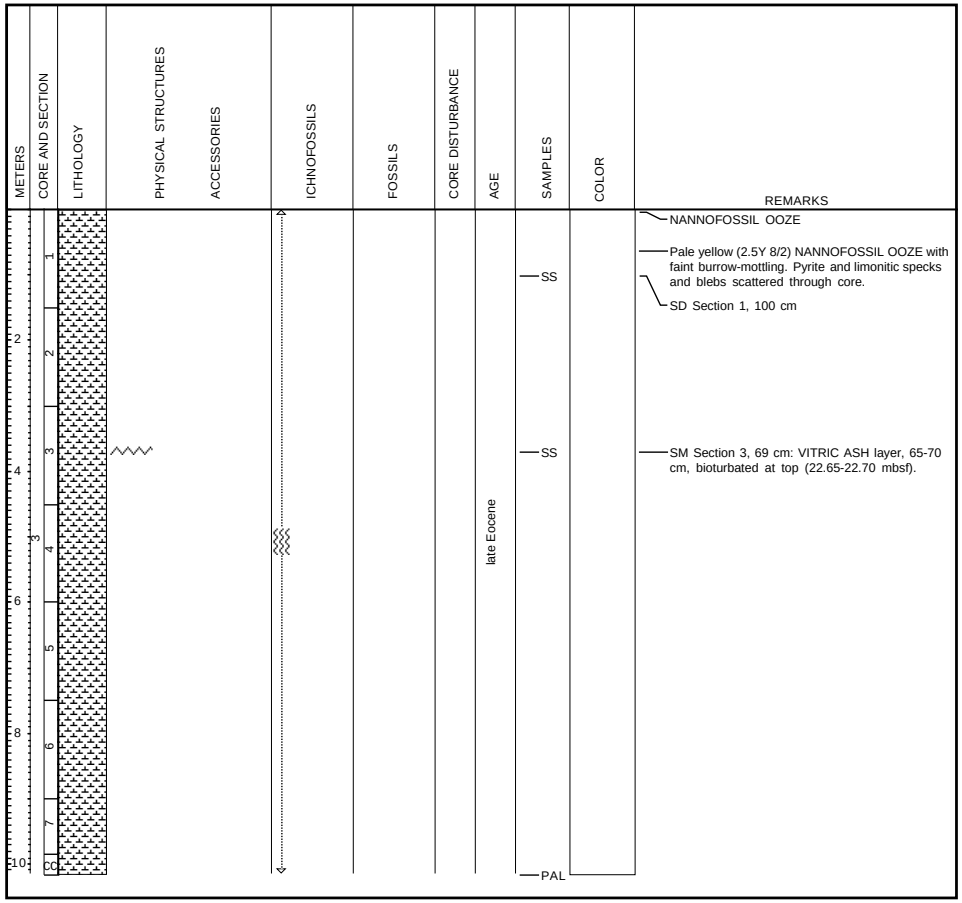
SITE 1052 HOLE F CORE 2H CORED 9.5-19.0 mbsf



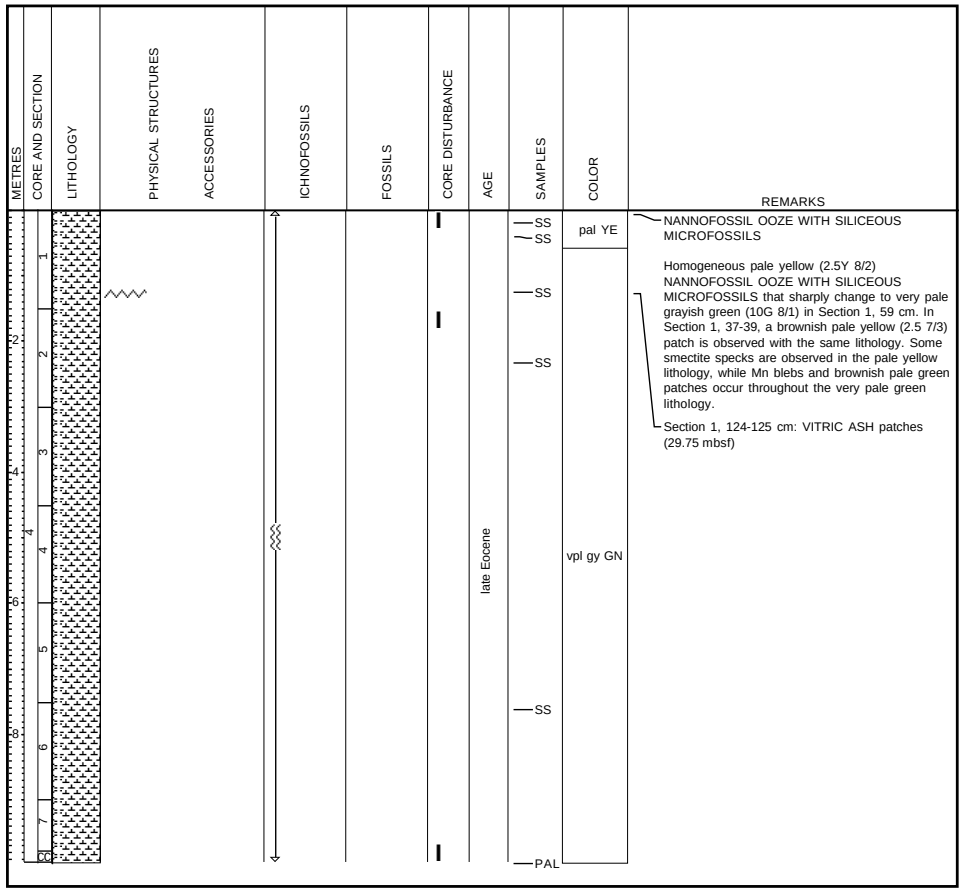
SITE 1052 HOLE F CORE 3H

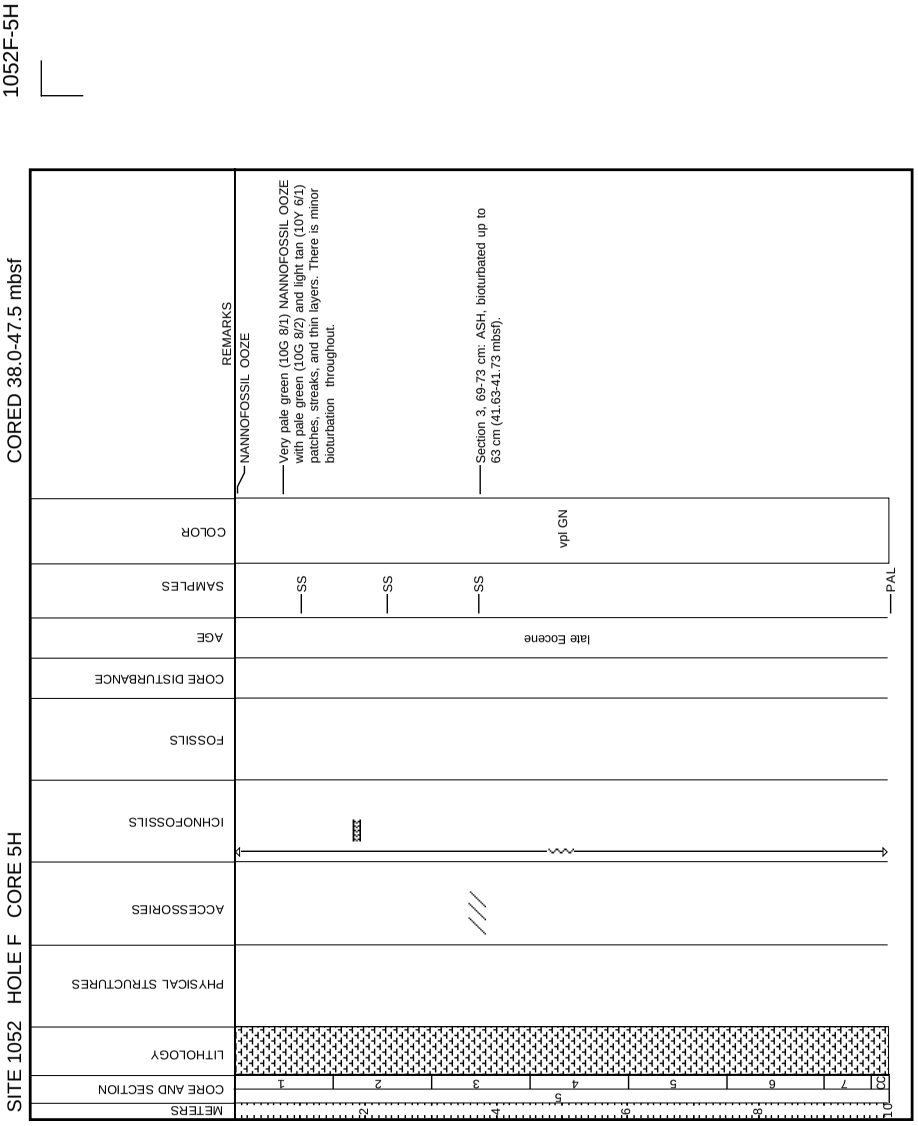
CORED 19.0-28.5 mbsf

1052F-3H



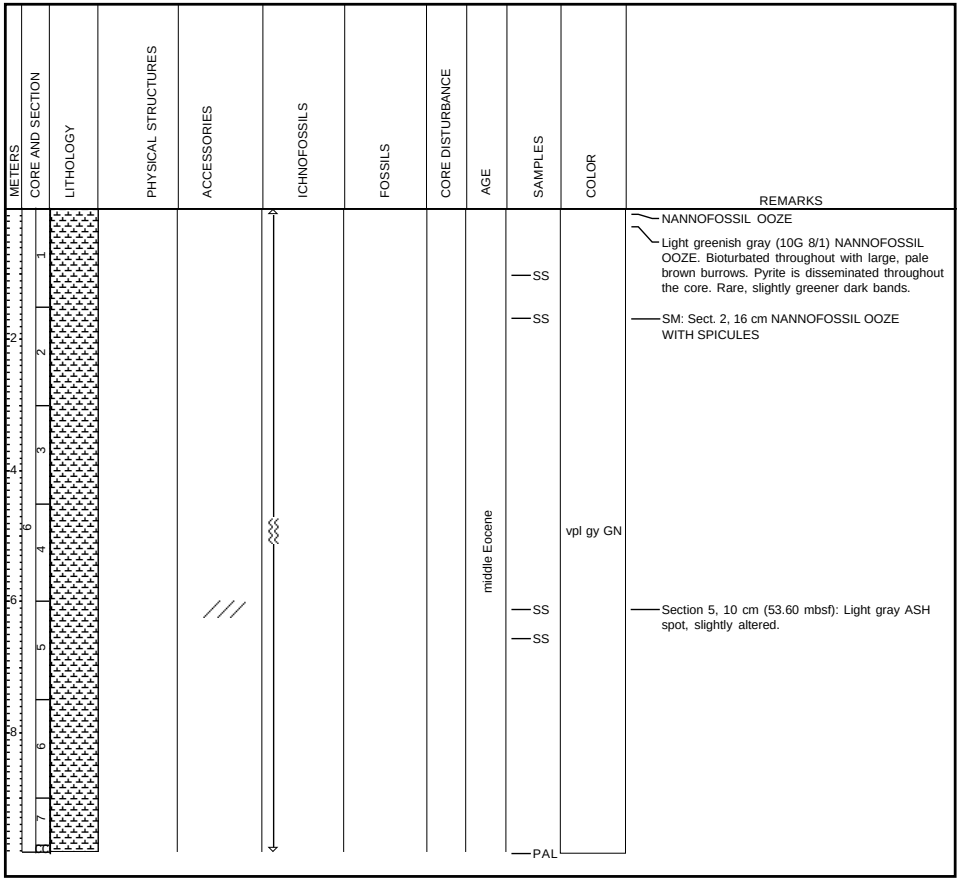
SITE 1052 HOLE F CORE 4H CORED 28.5-38.0 mbsf

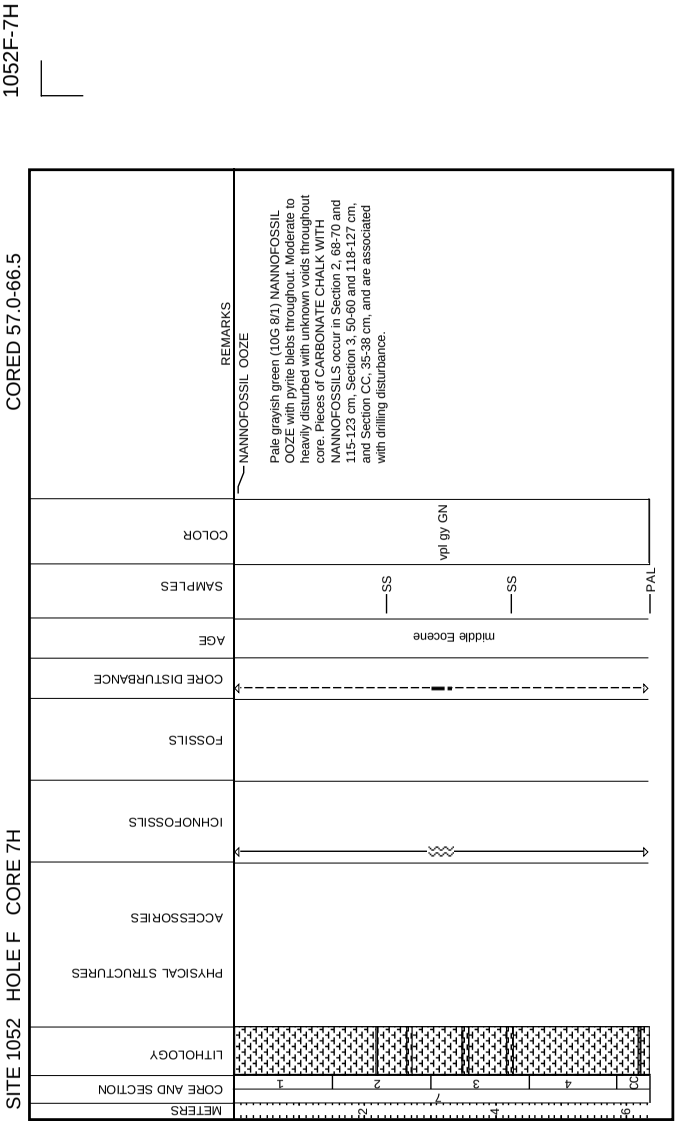


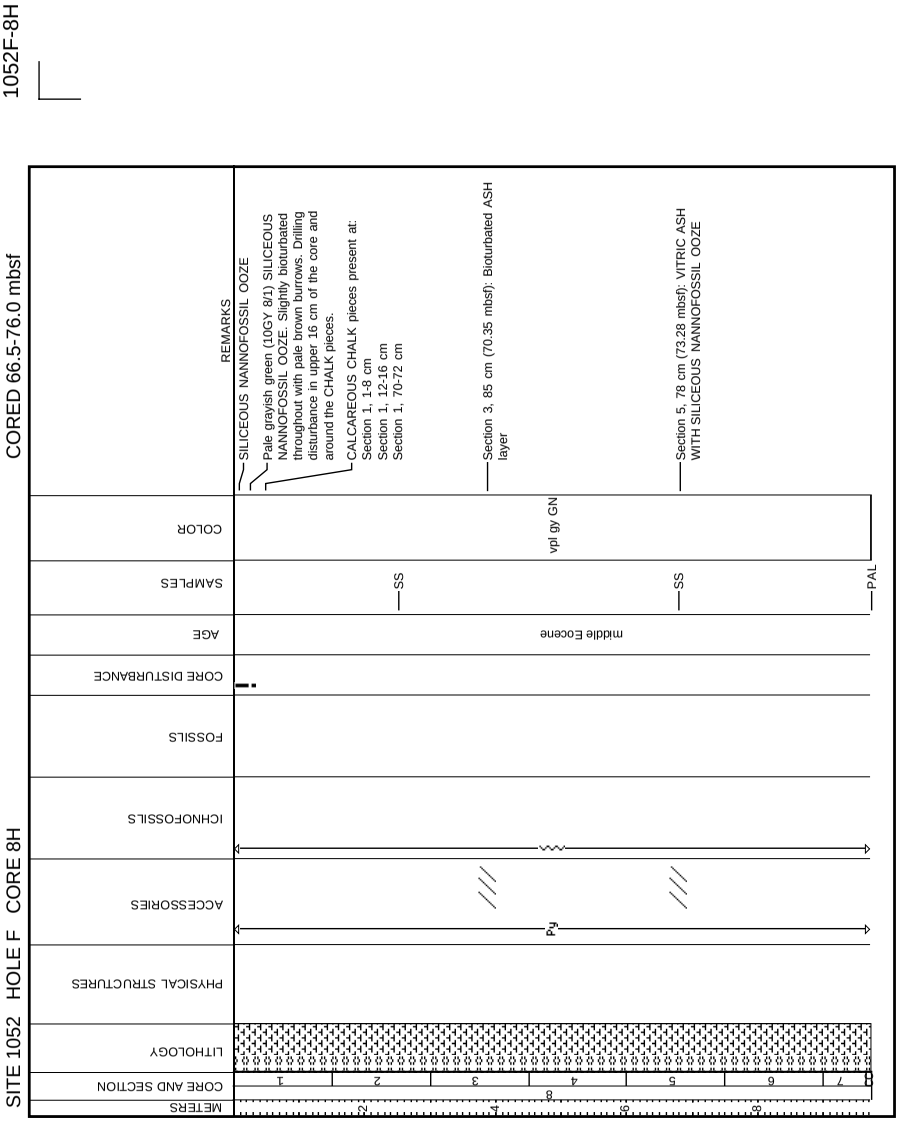

1052F-5H
SITE 1052 HOLE F CORE 5H
CORED 38.0-47.5 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL OOZE
Very pale green (10G 8/1) NANNOFOSSIL OOZE with pale green (10G 8/2) and light tan (10Y 6/1) patches, streaks, and thin layers. There is minor bioturbation throughout.
Section 3, 69-73 cm: ASH, bioturbated up to 63 cm (41.63-41.73 mbsf).
late Eocene
vpl GN
SS
SS
SS
PAL
1
2
3
4
5
6
7
CC

SITE 1052 HOLE F CORE 6H CORED 47.5-57.0 mbsf

1052F-6H



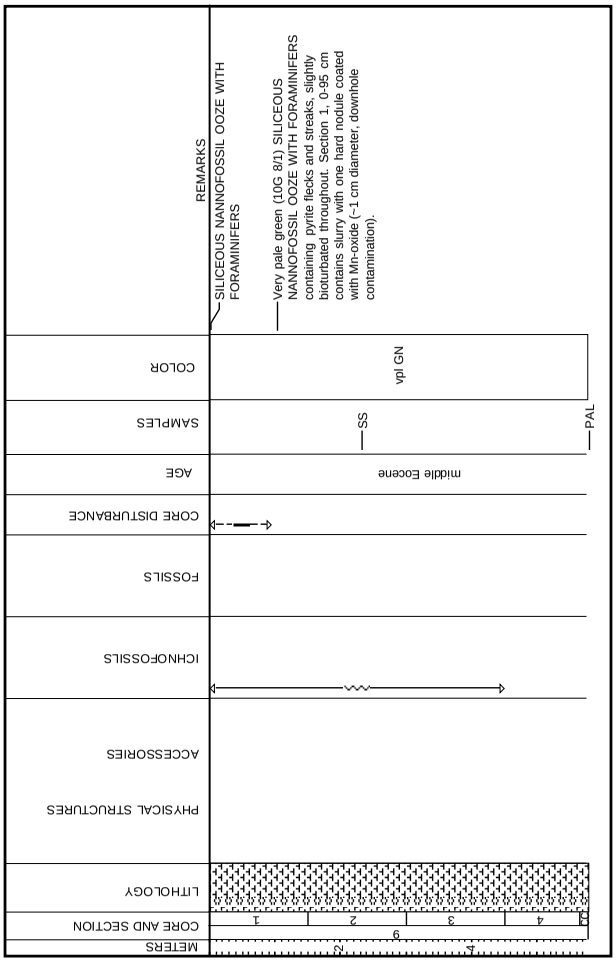

1052F-7H
SITE 1052 HOLE F CORE 7H
CORED 57.0-66.5
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
SS
SS
PAL
vpl gy GN
NANNOFOSSIL OOZE
Pale grayish green (10G 8/1) NANNOFOSSIL OOZE with pyrite blebs throughout. Moderate to heavily disturbed with unknown voids throughout core. Pieces of CARBONATE CHALK WITH NANNOFOSSILS occur in Section 2, 68-70 and 115-123 cm, Section 3, 50-60 and 118-127 cm, and Section CC, 35-38 cm, and are associated with drilling disturbance.

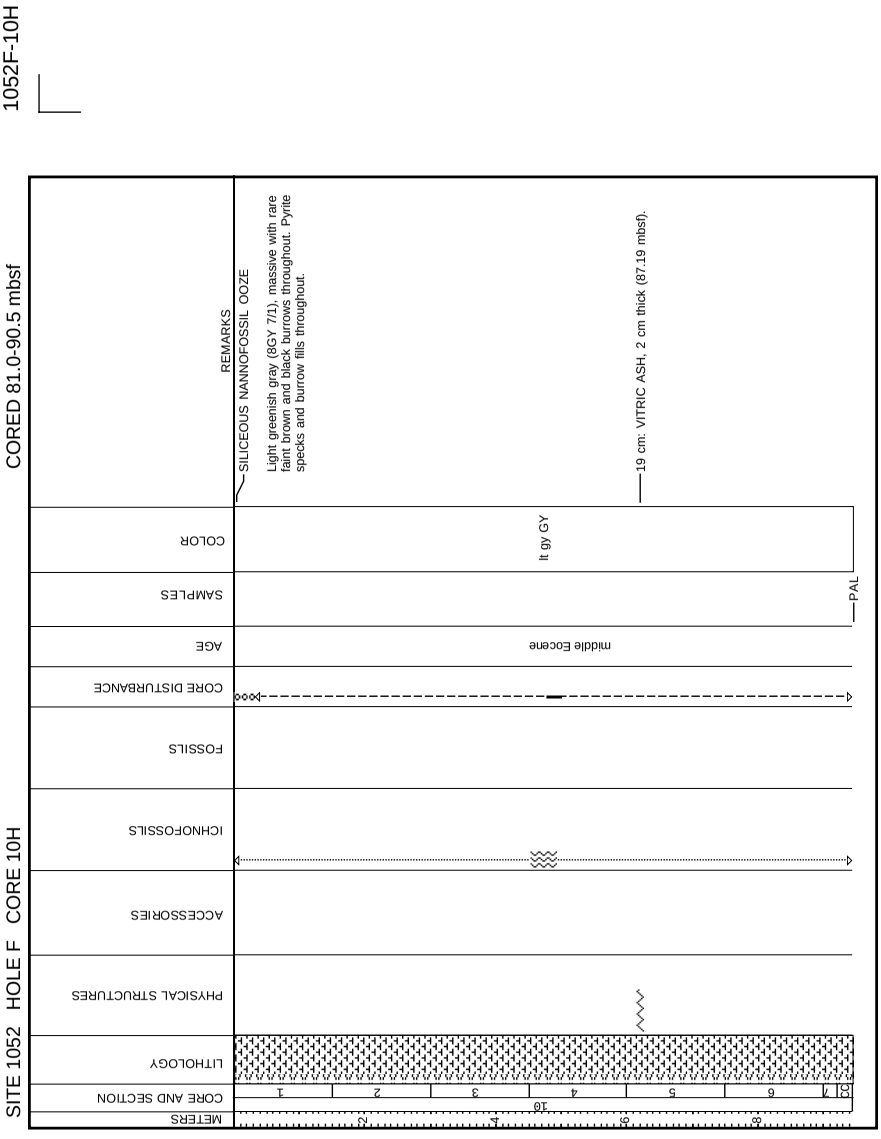

1052F-8H
SITE 1052 HOLE F CORE 8H
CORED 66.5-76.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE
Pale grayish green (10GY 8/1) SILICEOUS NANNOFOSSIL OOZE. Slightly bioturbated throughout with pale brown burrows. Drilling disturbance in upper 16 cm of the core and around the CHALK pieces.
CALCAREOUS CHALK pieces present at:
Section 1, 1-8 cm
Section 1, 12-16 cm
Section 1, 70-72 cm
Section 3, 85 cm (70.35 mbsf): Bioturbated ASH layer
Section 5, 78 cm (73.28 mbsf): VITRIC ASH WITH SILICEOUS NANNOFOSSIL OOZE
vpl gy GN
middle Eocene
SS
SS
PAL
Py
1
2
3
4
5
6
7
CC

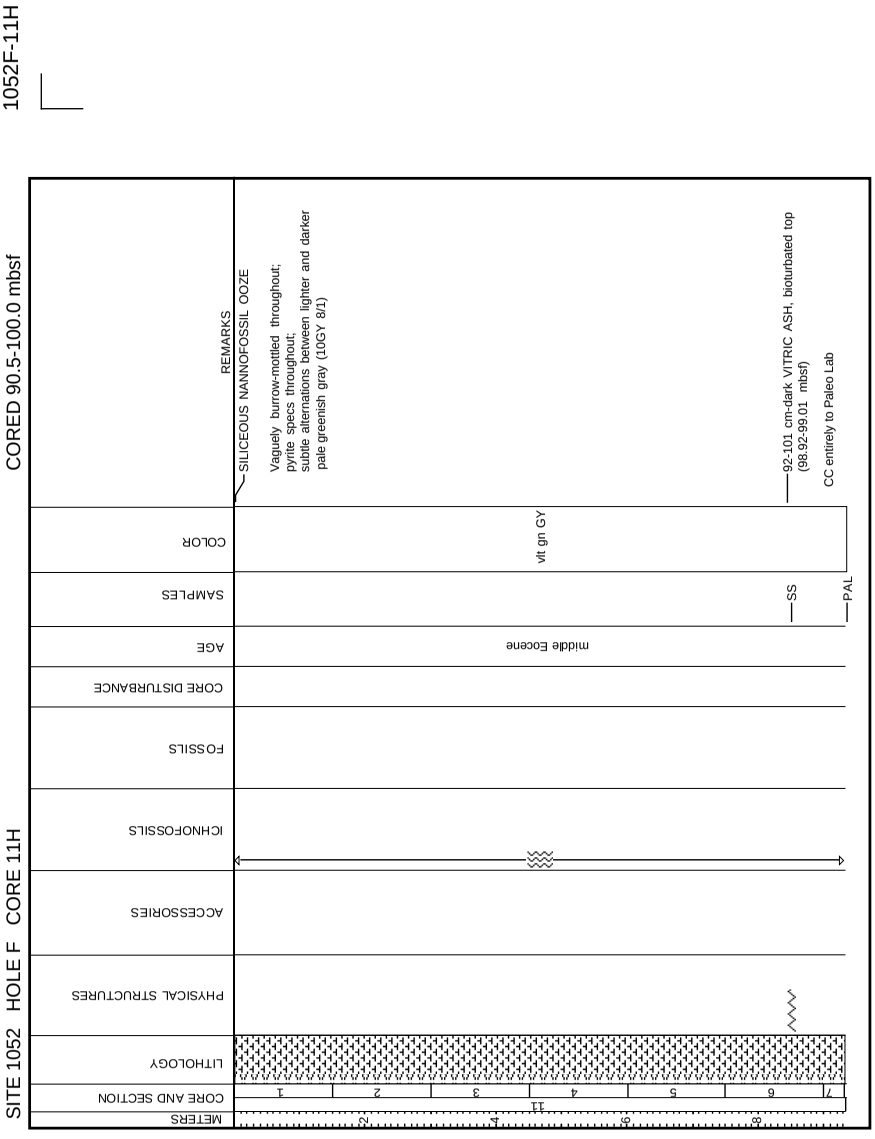
1052F-9H

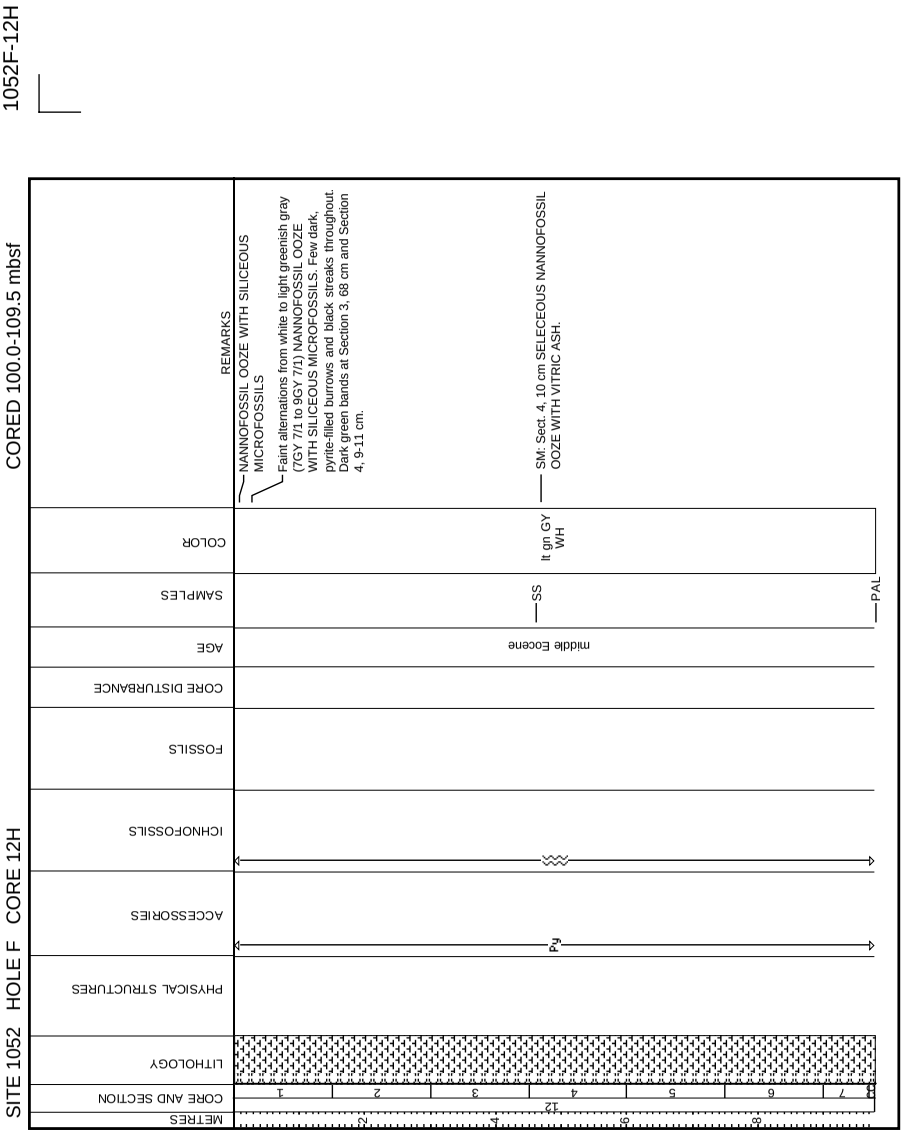
SITE 1052 HOLE F CORE 9H

CORED 76.0-81.0 mbsf

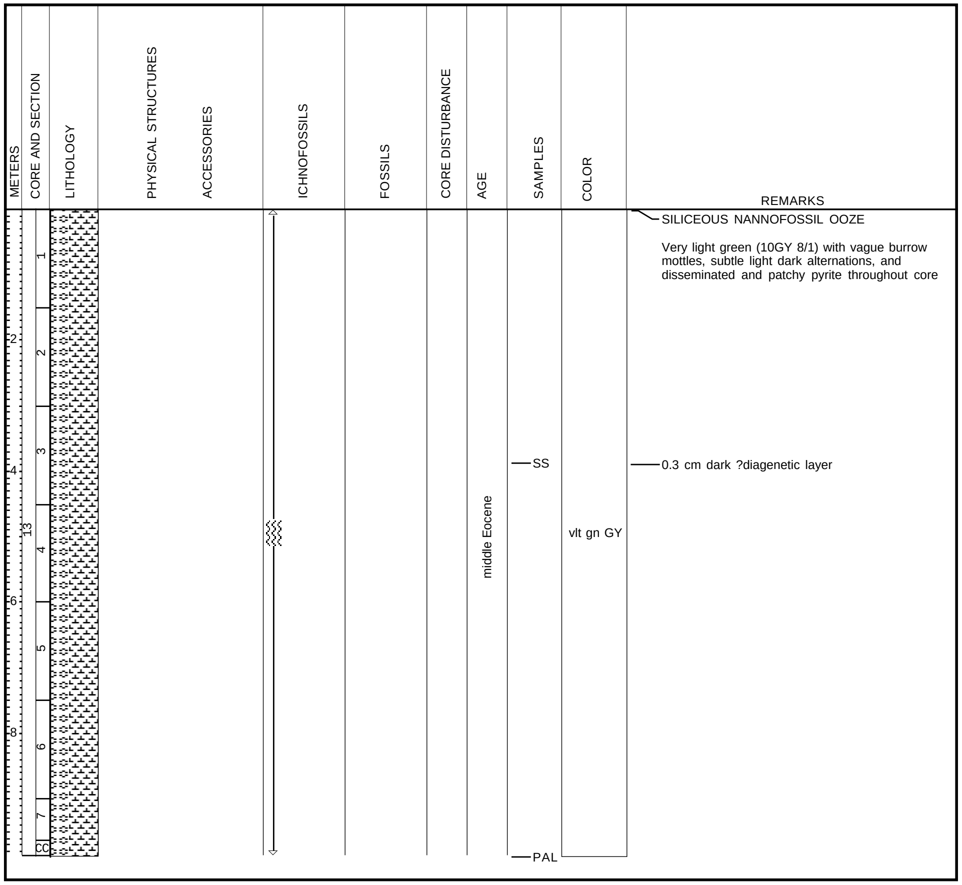



SITE 1052 HOLE F CORE 10H
CORED 81.0-90.5 mbsf
1052F-10H
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
middle Eocene
PAL
lt gy GY
SILICEOUS NANNOFOSSIL OOZE
Light greenish gray (8GY 7/1), massive with rare faint brown and black burrows throughout. Pyrite specks and burrow fills throughout.
19 cm: VITRIC ASH, 2 cm thick (87.19 mbsf).


1052F-11H
SITE 1052 HOLE F CORE 11H
CORED 90.5-100.0 mbsf
METERS
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
SILICEOUS NANNOFOSSIL OOZE
Vaguely burrow-mottled throughout; pyrite specs throughout; subtle alternations between lighter and darker pale greenish gray (10GY 8/1)
vlt gn GY
middle Eocene
SS
PAL
92-101 cm-dark VITRIC ASH, bioturbated top (98.92-99.01 mbsf)
CC entirely to Paleo Lab


SITE 1052 HOLE F CORE 12H
CORED 100.0-109.5 mbsf
1052F-12H
METRES
CORE AND SECTION
LITHOLOGY
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
CORE DISTURBANCE
AGE
SAMPLES
COLOR
REMARKS
NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS
Faint alternations from white to light greenish gray (7GY 7/1 to 9GY 7/1) NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS. Few dark, pyrite-filled burrows and black streaks throughout. Dark green bands at Section 3, 68 cm and Section 4, 9-11 cm.
SM: Sect. 4, 10 cm SELECEOUS NANNOFOSSIL OOZE WITH VITRIC ASH.
lt gn GY WH
middle Eocene
SS
PAL
Py
1
2
3
4
5
6
7
CC
12

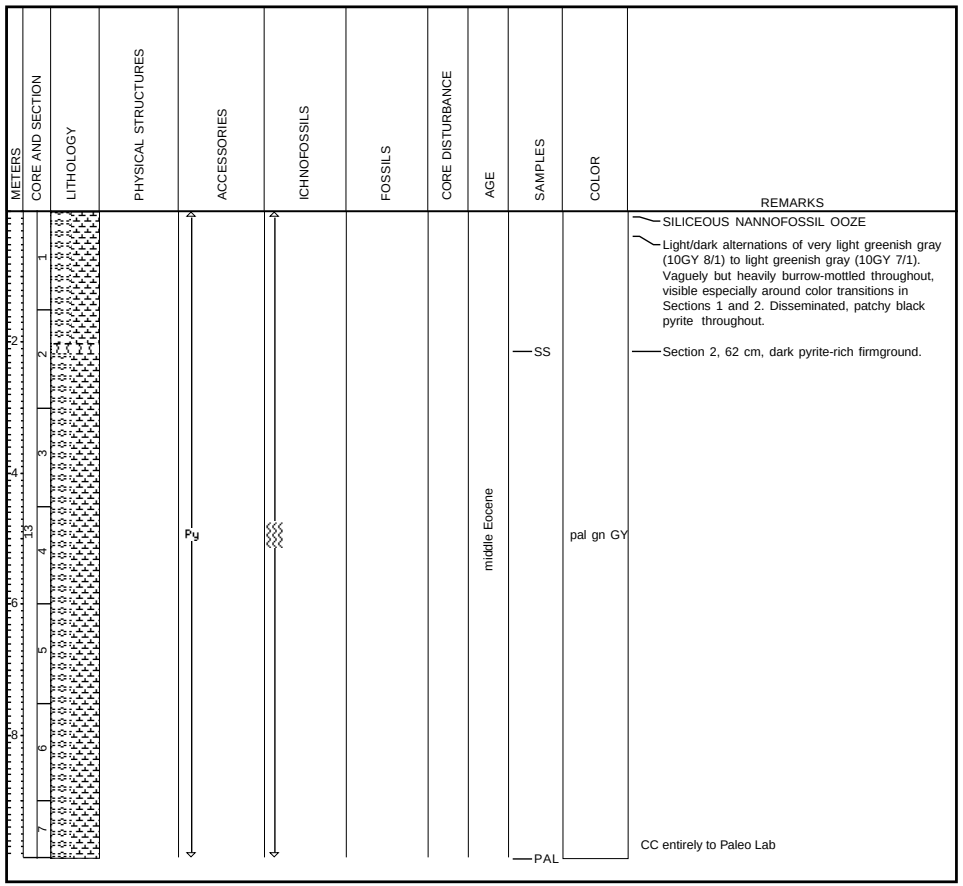
SITE 1052 HOLE F CORE 13H CORED 109.5-119.0 mbsf



SITE 1052 HOLE F CORE 14H

CORED 119.0-128.5 mbsf

1052F-14H



Prior Chapter Contents Next Chapter