

4. SITE 62

The Shipboard Scientific Party¹

Occupied: August 15-21, 1969.

Position: $1^{\circ} 52.2'N.$, $141^{\circ} 56.3'E.$

Water Depth: 2591 meters.

Total Depth: 581 meters, in basalt.

Holes Drilled: Two holes.

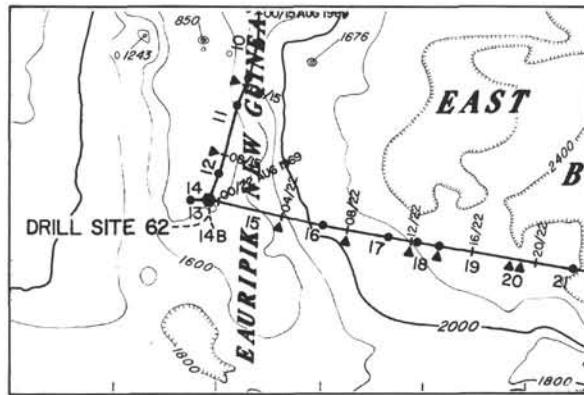
Cores Taken: Forty-seven cores.

Main Results: A virtually uninterrupted sequence of upper Oligocene through Quaternary chalks and chalk oozes rich in nannofossils, foraminifers, and radiolarians, overlies intrusive basalt containing middle Oligocene chalk xenoliths. Nearly continuous cores from the Quaternary through the middle Miocene provide the basis for very detailed biostratigraphic zonation and correlation. Average rates of accumulation were about 20 m/m.y. The basaltic basement is nearly the same as, or perhaps a little older than the basement reached during Leg 6 on the north side of Caroline Ridge, at Sites 56 and 57.

BACKGROUND

A marked salient of the Pacific Basin projects westward between the Marianas-Palau Island arcs and trenches to the north and the complex of shear zones, troughs, and escarpments that mark the borders of Melanesia to the south (Figure 1). Within the salient, two directions of lineation are evident in the bathymetry; these are a set of sub-parallel ridges and troughs trending ESE (for example, the Caroline Island chains) parallel to the Melanesian border, and a set of broad swells and narrower troughs (for example, Eauripik Ridge and Mussau Trough) trending north.

The age of the oceanic crust over most of this region was unknown at the time of drilling. Even though the results of drilling during Leg 6 at Sites 55, 56 and 57 showed that at least along parts of the Caroline Ridge basaltic basement lies directly beneath upper Oligocene



calcareous sediments (personal communication, Leg 6 Scientific Party), one might still have expected to find old sediments—perhaps even Mesozoic—farther south in the region of smooth topography in the East and West Caroline Basins and over the intervening Eauripik Ridge: the salient at present is about as far from the crest of the East Pacific Rise as any part of the Pacific plate. Pre-Oligocene sediments in the region are known from piston cores: reworked Eocene microfossils are reported (Riedel, in press) in one core from the Caroline Island area and from many cores in the region between the Gilbert Islands and the Ontong Java Plateau. Further, an east-west reflection profile taken on a cruise of R/V *Vema* (Figure 2) shows an attractively thick cover of sediments—as much as 0.7 second, or about 700 meters—overlying a rough seismic basement. Rates of accumulation at Sites 55, 56 and 57 range between 5 and 20 m/m.y. (personal communication, Leg 6 Scientific Party), and if similar rates had prevailed farther south, sediments 35 to 140 million years old would have been anticipated at the site on Eauripik Ridge chosen by the Pacific Panel.

Air-gun records taken between Guam and Site 62 help establish continuity between the north edge of Caroline Ridge (Sites 55, 56 and 57) and the *Vema* profile across Eauripik Ridge (see Chapter on Reflection Seismology, Records 1 through 12).

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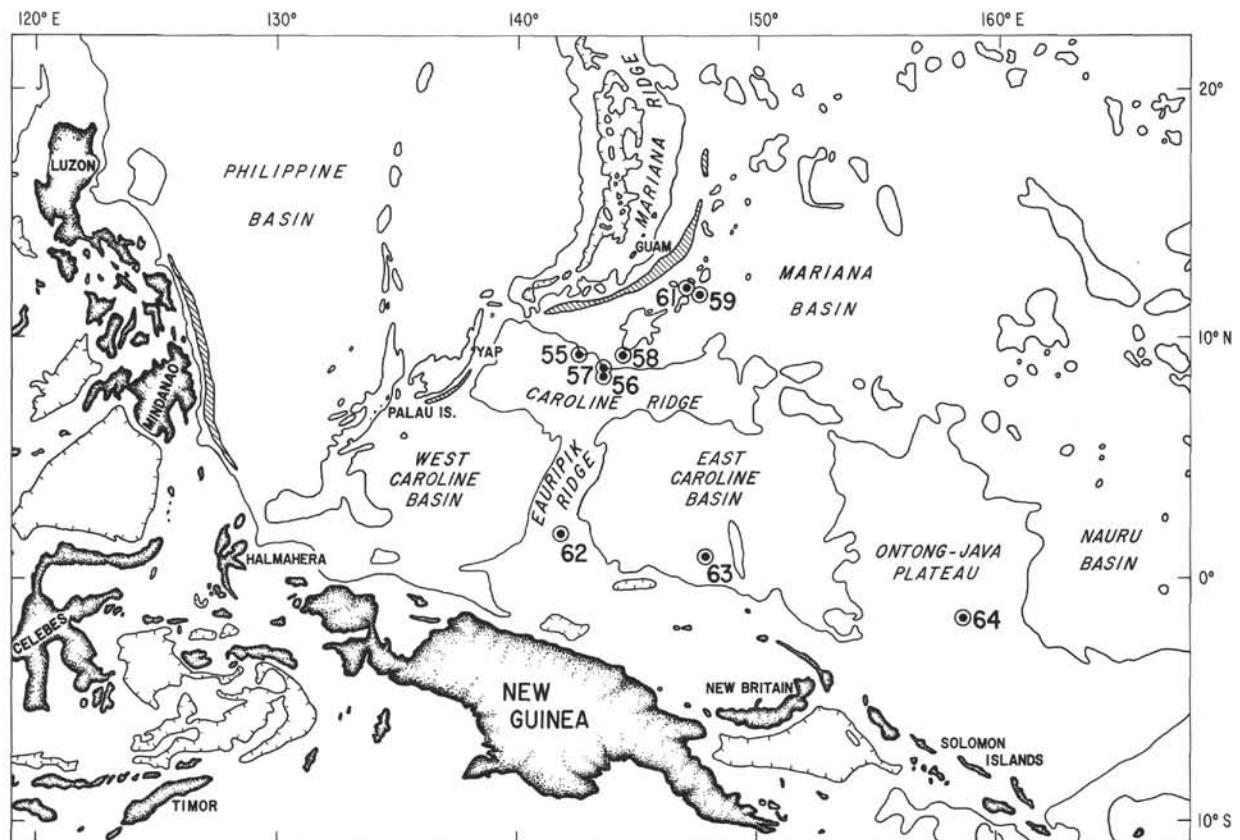


Figure 1. Generalized regional bathymetry of part of the western equatorial Pacific, showing the locations of drilling sites and the names of major bathymetric features. All contours are 2000 fathoms except for the 4000 fathom contours around the deep trench areas indicated by diagonal lines.

OPERATIONS

Site Survey and Approach

With delivery in Guam of a recorder and hydrophone array borrowed from the reflection profiling group at Scripps, the profiling system, which had been sickly, then comatose, and finally dead during travel to and from Site 61, was restored to life if not perfect health, and began producing fair records as the *Challenger* approached the Caroline Ridge, and it continued to function marginally most of the way to the area of Site 62. The track of *Glomar Challenger* between the two sites is shown on Plate 1, along with the locations of each of the segments of the reflection profile, which are reproduced in the chapter on Reflection Seismology.

On arrival at the nominal site (Figure 3) we turned to steam due west, hoping to find a spot with an even thicker sediment section to drill, but were prepared to come back to the turning point as an adequate site. The air-gun records on the westward run (Figure 4) show alternating highs and lows on the basement surface, with a relief of as much as 0.3 second, and the

sediment cover is correspondingly thickened over the lows and thinned over the highs. After steaming for about 11 miles to the west without finding a more suitable location, the ship was turned back and headed for the original site (Figure 5). Slight differences in depths on the echogram began to suggest that on our way eastward we were not retracing exactly our westward track, but this would not create a serious problem unless the air-gun system were to fail—which it promptly did, leaving us only dead reckoning for a large part of our return to the site. The site drilled is shown on the reflection profile (Figure 6), which was taken on leaving the area, a few days later, when the air-gun system was again operating properly. The desired site was in the thick section just to the left of the center of the figure; the actual site is very close to the slopes of a buried basement hill, and the oldest sediments met by the drill at this site may not be as old as some very nearby.

A reflection profile taken while the ship was standing still, positioned over Site 62 (Figure 7) shows prominent groups of reflectors at 0.12, 0.21, 0.26, 0.40 to 0.48, 0.50 to 0.59, and 0.60 to 0.75 seconds.

SECONDS

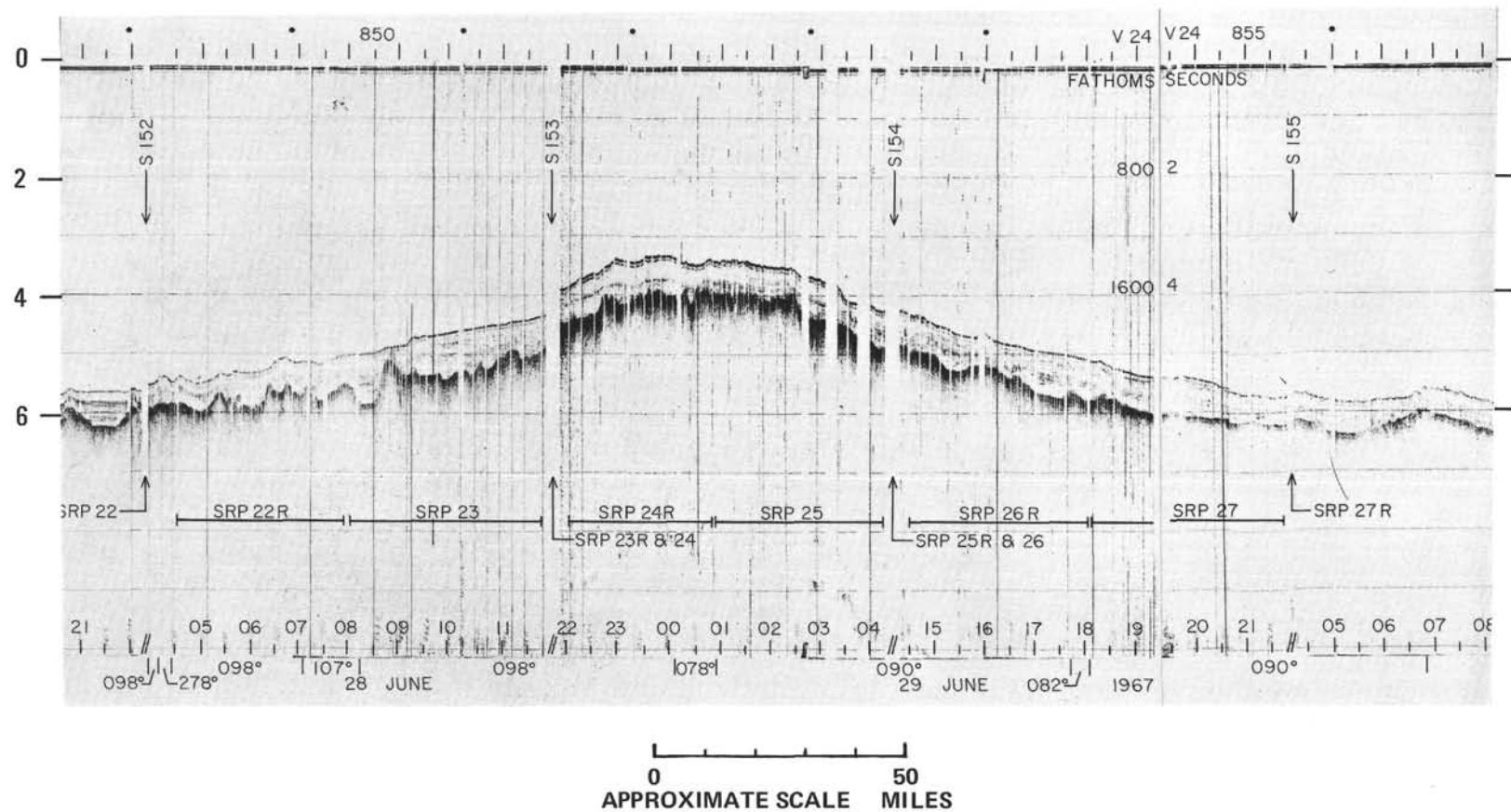


Figure 2. East-west seismic reflection profile across Eauripik Ridge taken by Lamont-Doherty Geological Observatory on Cruise 24 of R/V Vema.

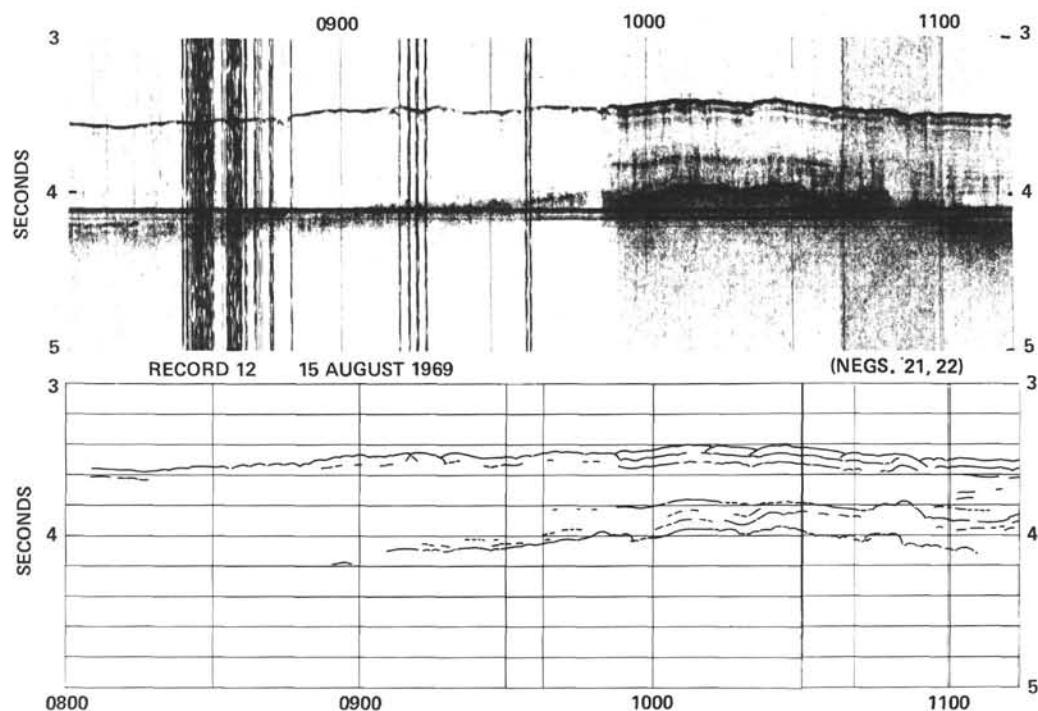


Figure 3. North-south seismic reflection profile on Eauripik Ridge, and a line-drawing interpretation of the profile. Site 62 is close to the right (south) end of the profile. Taken from D/V Glomar Challenger. Location shown on Plate 1. (Record No. 12)

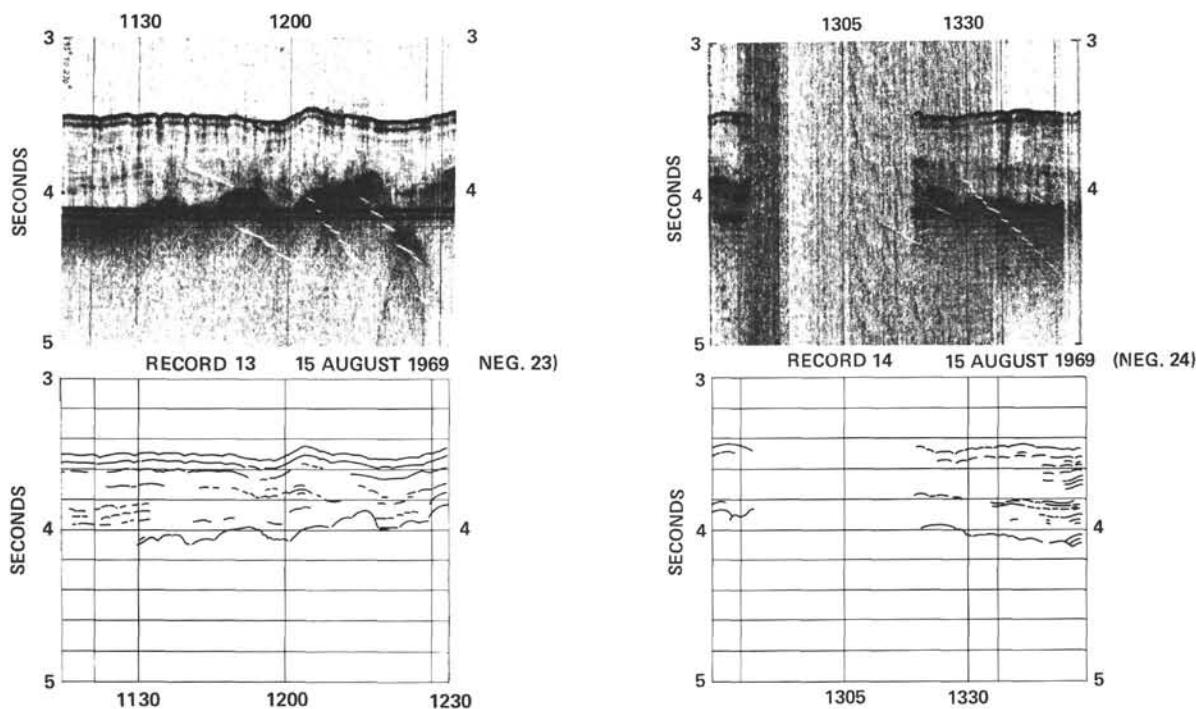


Figure 4. East-west seismic reflection profile on Eauripik Ridge, and a line drawing interpretation of the profile. Site 62 is close to the left (east) end of the profile. Taken from D/V Glomar Challenger. Location shown on Plate 1. (Record No. 13)

Figure 5. Seismic reflection profile on Eauripik Ridge, and a line-drawing interpretation of the profile and Site 62 is at the right (east) end of the profile. Taken from D/V Glomar Challenger. Location shown on Plate 1. (Record No. 14)

SECONDS

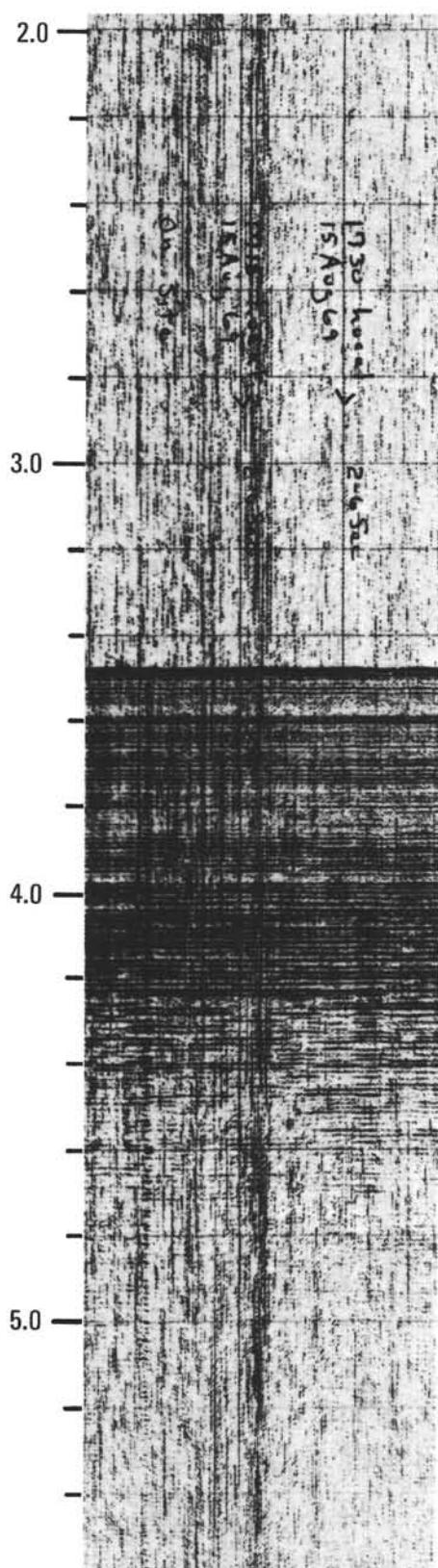


Figure 6. Seismic reflection profile taken at Site 62 while the ship was stationary.

Drilling Operations

The air-gun seismic reflection profiling system, which has been operating sporadically, failed just as the vessel approached the position selected for the site, and the final approach was guided by reference to the bathymetry as indicated by the echo sounder.

At 1442 hours on August 15 a beacon was dropped and the drilling crew began to make up the drill string. A diamond "crown" bit led the string to the ocean floor, which was located at 8533 feet (2600.9 meters) beneath the derrick floor, as indicated by an increase in pump pressure. The tools were washed down to a depth of 8832 feet (2692.0 meters) without resistance, and the first core (62.0-1) was cut without turning on the pump. Drilling and coring alternated through progressively firmer strata to a depth of 10,416 feet (3174.8 meters), where we began coring continuously until 10,438 feet (3181.5 meters). The final three feet (0.9 meter) took 2.5 hours to core, and the drill string vibrated noticeably, suggesting that the bit was being destroyed. The last core recovered was a one-foot (0.3 meter) section of dolomite and basalt, and the hole was terminated.

The tool string was pulled above the sea floor and a new hole was begun, in order to core continuously the upper part of the stratigraphic section. On Cores 62.1-3 and 62.1-5 the plastic core liner had collapsed. Core 62.1-5 was discovered to be *outside* the liner, showing the lines to have collapsed before the beginning of coring. The plastic "sock", used as a core retainer, was removed in an effort to prevent the accidental formation of a collapsible air bubble within the liner.

To minimize the injection of drilling fluid (sea water) into the cores, all cores on Hole 62.1 were cut dry, that is, without turning on the pumps. A comparison of bulk densities of cores in Holes 62.0 and 62.1 for the same intervals shows higher densities for Hole 62.1, suggesting that they are less injected with water.

At Core 62.1-39, on August 21, six days having elapsed since the beacon was dropped, the Operations Manager, Mr. Larsen, asked that we cease coring and terminate the hold. At the time this request was made it was not known that typical life of a beacon is eight days. The tools were recovered, and the ship was underway for Site 63 at 2248 hours on August 21.

SITE SUMMARY

Lithology

The rock types cored at Site 62 fall into three classes: (1) nannofossil chalk ooze, grading down to chalky limestone with associated nodular chert; (2) sugary dolomite and dolomitic limestone; and (3) highly altered basalt.

TABLE 1
Site 62, Leg 7

Hole	Interval (ft)	Meters (m)	Cores Drilled	Core Cut (ft)	Core Recovered (ft)	Core Recovered (m)	Core %	Recovery %
62-0	0-299		Drilled					
	299-329	91-100	Core 1	30	9.1	30	9.1	
	329-672		Drilled					
	672-702	205-214	Core 2	30	9.1	30	9.1	
	702-980		Drilled					
	980-1010	299-308	Core 3	30	9.1	30	9.1	
	1010-1296		Drilled					
	1296-1326	395-404	Core 4	30	9.1	30	9.1	
	1326-1608		Drilled					
	1608-1626	490-496	Core 5	18	5.5	18	5.5	
	1626-1709		Drilled					
	1709-1739	521-530	Core 6	30	9.1	8	2.4	
	1739-1883		Drilled					
	1883-1902	574-580	Core 7	19	5.8	2	0.6	
	1902-1905	580-581	Core 8	37	0.9	1	0.3	
1905' (581m)		Totals	8	190	57.9	149	45.4	10
62-1	0-20		Drilled					
	20-50	6-15	Core 1	30	9.1	11	3.4	
	50-80	15-24	Core 2	30	9.1	19	5.8	
	80-110	24-34	Core 3	30	9.1	5	5.6	
	110-140	34-43	Core 4	30	9.1	30	9.1	
	140-170	43-52	Core 5	30	9.1	19	5.8	
	170-177		Drilled					
	177-207	54-63	Core 6	30	9.1	30	9.1	
	207-237	63-72	Core 7	30	9.1	30	9.1	
	237-267	72-81	Core 8	30	9.1	28	8.5	
	267-297	81-91	Core 9	30	9.1	19	5.8	
	297-302		Drilled					
	302-332	92-101	Core 10	30	9.1	30	9.1	
	332-362	101-110	Core 11	30	9.1	30	9.1	
	362-392	110-119	Core 12	30	9.1	30	9.1	
	392-422	119-129	Core 13	30	9.1	30	9.1	
	422-452	129-138	Core 14	30	9.1	30	9.1	
	452-482	138-147	Core 15	30	9.1	30	9.1	
	482-512	147-156	Core 16	30	9.1	30	9.1	
	512-542	156-165	Core 17	30	9.1	30	9.1	
	542-572	165-174	Core 18	30	9.1	30	9.1	

TABLE 1 – *Continued*

Hole	Interval (ft)	Meters (m)	Cores Drilled	Core Cut (ft)	Core Cut (m)	Core Recovered (ft)	Core Recovered (m)	Core %	Recovery %
62-1	572-602	174-183	Core 19	30	9.1	30	9.1		
	602-610		Drilled						
	610-640	186-195	Core 20	30	9.1	30	9.1		
	640-670	195-204	Core 21	30	9.1	30	9.1		
	670-678		Drilled						
	678-708	207-216	Core 22	30	9.1	30	9.1		
	708-738	216-225	Core 23	30	9.1	30	9.1		
	738-768	225-234	Core 24	30	9.1	30	9.1		
	768-798	234-243	Core 25	30	9.1	30	9.1		
	798-804		Drilled						
	804-834	245-254	Core 26	30	9.1	30	9.1		
	834-864	254-263	Core 27	30	9.1	30	9.1		
	864-894	263-271	Core 28	30	9.1	30	9.1		
	894-924	271-281	Core 29	30	9.1	30	9.1		
	924-954	281-291	Core 30	30	9.1	30	9.1		
	954-984	291-300	Core 31	30	9.1	30	9.1		
	984-988		Drilled						
	988-1018	301-310	Core 32	30	9.1	30	9.1		
	1018-1048	310-319	Core 33	30	9.1	12	3.7		
	1048-1051		Drilled						
	1051-1072	320-324	Core 34	21	6.4	30	9.1		
	1072-1102	327-336	Core 35	30	9.1	30	9.1		
	1102-1130	336-344	Core 36	28	8.5	24	7.3		
	1130-1149	344-350	Core 37	19	5.8	10	3.1		
	1149-1173	350-358	Core 38	24	7.3	15	4.6		
	1173-1195	358-364	Core 39	22	6.7	22	6.7		
Site Totals	1195 (364m)	Totals	39	1134	345.6	1020.0	310.9	95%	90%
	3100 (945m)		47	1324	403.6	1169.0	356.3	43%	88%

The nannofossil and foraminiferal ooze is somewhat marly at the surface (color values mostly 7 or lower) but becomes progressively purer (chalky) at depth (color values generally 8 or 9 below about 50 meters). The chalk oozes are generally very pure, with only trace amounts of opaline skeletal material and pyrite frambooids often as internal molds of foraminifera or worm tubes. In the interval 90 to 110 meters, however, shards of fresh, colorless volcanic glass are common, and at 98 meters an ash bed about 6 centimeters thick is formed. The glass has a refractive index of about 1.518, and is apparently of intermediate composition (63 to 65 per cent silica). Most shards have pyrite crystallites and rarely rosettes growing on their surfaces.

The chalk ooze becomes progressively more compact and indurated with depth. On the basis of appearance and resistance to disaggregation, the calcareous material is classified as chalk ooze above about 140 meters, chalk ooze to chalk from 140 to about 300 meters, chalk from 300 to about 500 meters, and chalky limestone from 500 meters to the dolomite which begins slightly above 574 meters.

The chalky limestone is a very porous rock, showing well-preserved small-scale sedimentary structures, which include truncated cross-beds, micro-slumps, and lensoid interlamination of well-sorted foraminifera-rich and foraminifera-poor layers, all at a scale of 1 centimeter or less. Apart from possible slight calcification of foraminifera, the limestone shows little microscopic evidence of recrystallization. However, the poor state of preservation of nannofossils (see Paleontology section) suggests that remobilization of calcium carbonate has taken place. The crystalline portion of the acid-insoluble residue of this limestone is rich in clinoptilolite.

Associated with the limestone at 521 to 524 meters (Hole 62.1, Core 6) is carbonate-bearing chert. The chert is nodular or thinly lenticular, and has formed by substitution of silica for calcite in the limestone. Several chert-carbonate boundaries have been examined in this section. In most cases, the order of silicification is: (1) infilling of empty chambers of foraminifera which commonly occurs in the limestone a few hundred microns ahead of the main chert front; (2) replacement of micrite matrix (nannofossils and comminuted foraminiferal remains) over a zone 150 to 300 microns thick, corresponding to the megascopic boundary between limestone and chert; and (3) replacement of the calcite prisms forming the walls of tests of foraminifera. This phase continues for several millimeters into the chert. Less commonly, however, the boundary is knifelike, with all calcareous components having gone to silica more or less simultaneously. Only carbonaceous particles trapped inside foraminifera persist inside the chert.

The chert is impure, and rarely contains less than 20 per cent calcite. Nevertheless, it has a classic chalcedonic texture, with irregular 10-micron patches of fibrous crystallites forming a tight matrix. The crystallites are largest in replaced walls of tests of foraminifera, where they tend to retain the general orientation of the parent calcite. No siliceous remains have been recognized in the chert nodules.

The dolomite has formed by metamorphism and metasomatism of the chalky limestone, probably during emplacement of the intrusive basalt described below. Near the top of the dolomitized interval (574 meters), foraminifera partly made over to dolomite rhombs are common. Nearer the basalt (580 meters), however, the dolomite is a very uniform sugary rock, made up of euhedral 0.5 millimeter rhombs. Only the presence of concentrations of inclusions at the cores of many rhombs and the retention of lenticular bedding marked by clay-rich laminae reveal the sedimentary origin of the original carbonate.

The deepest rock cored at Site 62 is highly altered basalt. This originally consisted of plagioclase laths up to 1.5 by 0.5 millimeters, clinopyroxene crystals up to 0.5 millimeter in diameter, and lesser olivine and magnetite or ilmenite in a glassy groundmass containing plagioclase laths and fine magnetite or ilmenite. The rock is somewhat vesicular. The feldspar has largely altered to pale green montmorillonite, the olivine is now iddingsite, and the pyroxene has altered to pale green fine clay minerals (probably montmorillonite with some chlorite). The groundmass is now largely brownish chlorite blades, averaging 100 to 200 microns in length, and green montmorillonite, together with irregular patches of limonite, which are concentrated close to carbonate veins. Vesicles are lined with pale green chlorite and montmorillonite, and infilled with zeolite near the sediment-basalt contact. The basalt is cut by 1 to 3-millimeter chlorite-bearing calcite veins, which consist largely of fairly well-preserved foraminifera and coccoliths. Sampled with the basalt is heavily chlorite-impregnated chalk, containing well-preserved nannofossils.

An intrusive origin for the basalt is suggested by dolomitization of the overlying limestone, and by the presence of ingested chalk.

Physical and Chemical Properties

The physical and chemical properties of cores obtained at Site 62 are summarized in Table 2 and are displayed as a function of depth in the Site Summary at the end of this chapter. The significance of these data is discussed in separate contributions elsewhere in this volume.

Paleontologic-Biostratigraphic Summary

Foraminifera

A majority of the samples of material cored at Site 62 contain abundant well-preserved planktonic foraminiferal tests such as those which presently accumulate at mid-bathyal depths. Especially well preserved is material from the catcher of Core 2, Hole 1, from about 20 meters subsurface, in which the original color of *Globigerinoides ruber* and *Globigerina rubescens* is retained.

The column begins in the Quaternary of Zone N. 23. Downward in the section, the Plio-Pleistocene boundary is crossed in Core 5 of Hole 1, at about 45 meters subsurface. The base of Zone N. 21 occurs between Holes 62.1-6 and 62.1-7 (at approximately 63 meters), the Pliocene-Miocene boundary between Holes 62.1-12 and 62.1-13 (at approximately 120 meters), the base of Zone N. 18 within Core 62.1-15 (at approximately 140 meters), the base of Zone N. 17 within Core 62.1-22 (at approximately 215 meters), the base of Zone N. 16 within Core 62.1-29 (at approximately 280 meters), the base of Zone N. 15 between Cores 62.1-31 and 62.1-32 (at approximately 300 meters), the base of Zone N. 14 between Cores 62.1-32 and 62.1-33 (at approximately 310 meters), and the base of Zone N. 13 below Core 62.1-39.

Calcareous Nannofossils

The cores yielded a continuous sequence of nannofossil zones from NN 1 down to NN 4, with the exception of NN 15. Coccoliths are well preserved throughout the section but discoasters show slight effects of secondary calcification below 120 meters. Below 350 meters to the terminal depth of 581 meters, discoasters show moderate overgrowth and recrystallization but most of the more distinctive species are recognizable throughout the section. A sample from in between the basalt of Core 8 in Hole 62.0 yielded a very well-preserved calcareous nannoplankton assemblage of lower Middle Oligocene age (Zone NP 24).

Of interest is the sudden appearance of *Coccolithus pelagicus*, a common species in the recent subarctic floral zone of the Atlantic Ocean, in the upper part of the *Discoaster surculus* Zone (NN 16) from the late Middle Pliocene up to the top of the Pliocene (top of *Discoaster brouweri* Zone, NN 18), probably indicating a decrease in water temperature.

Radiolaria

Radiolarians are generally scarce and rather poorly preserved in the upper 200 meters of the section (down to Core 62.1-2), more common and better preserved to about 350 meters (Core 62.1-37), then again rare and poorly preserved at about 355 meters (Core 62.1-38),

absent at about 360 meters (Core 62.1-39), common and moderately well preserved at about 400 meters and 495 meters (Cores 62.0-4 and 62.0-5), and absent in deeper samples.

Within the upper 200 meters, the only zonal boundary that can be recognized, indistinctly, is the base of the *Spongaster pentas* Zone at about 123 to 126 meters (between 62.1-13-3 and 63.1-13-5). The base of the *Stichocorys peregrina* Zone is at 202 to 204 meters (between 62.1-21-5 and 62.1-21-CC), the base of the *Ommatartus penultimus* Zone is at 225 to 227 meters (between 62.1-23-CC and 62.1-24-2), the base of the *Ommatartus antepenultimus* Zone is at 290 to 298 meters (between 62.1-30-CC and 62.1-31-5), the base of the *Cannartus (?) petterssoni* Zone is at 329 to 334 meters (between 62.1-35-2 and 62.1-35-5), the base of the *Dorcadospyris alata* Zone is at 350 to 396 meters (between 62.1-37 and 62.0-4), the base of the *Calocyctella costata* Zone is at 404 to 492 meters (between 62.0-4-CC and 62.0-5-2), and the base of the *Calocyctella virginis* Zone is below 499 meters (below 62.0-5-CC).

No reworked older radiolarians were found in any samples from this site.

DISCUSSION

Age of Basement

The basalt encountered at Site 62 appears to be intrusive into the sediments of late Oligocene age (circa 26 million years) as evidenced by the thorough dolomitization of the chalks immediately overlying the igneous rock. Reflection profiles over most of the Eauripik Ridge show a moderately irregular basement topography overlain unconformably by sediments that abut and overlap local basement highs. Site 62 close to one of these basement highs which may be a buried hill, a piercement structure, or a plug in the basement. If the feature is igneous in origin, sills may extend laterally from it into the flanking sediments. The plug-like feature extends upward to at least the level of the middle Miocene and the feature could therefore be of any age younger than late Oligocene. But because no evidence of contact effects are visible in sediments younger than the late Oligocene it is unlikely that the feature intrudes younger sediments. One kilometer east of Site 62 the sedimentary column above the basement is about 0.1 second thicker than at the site itself. Extrapolating average rates of accumulation in the lower part of the section at Site 62 (12 m/m.y.) for an additional 100 meters of thickness (about 0.1 second) gives an estimated projected age of early Oligocene (35 million years) for the base of the sedimentary column.

TABLE 2
Physical Properties of Cores from Site 62

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) ^d Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity m/sec.	Natural Gamma Radiation ^h
		Interval cm	Per Cent							
Hole 62.0										
Core 1-1	Nannofossil Chalk Ooze	1.416	1.664	2.71	60.4	20.0	62.0	0.65	1595	405
1-2	Nannofossil Chalk Ooze	1.421	1.668	2.71	61.8	20.0	62.4	0.62	1809	341
1-3	Nannofossil Chalk Ooze	1.456	1.684	2.71	60.8	20.0	62.2	0.82	1616	341
1-4	Nannofossil Chalk Ooze	1.412	1.660	2.71	62.3	20.0	64.4	0.67	1605	301
1-5	Nannofossil Chalk Ooze	1.431	1.657	2.71	62.4	20.0	64.0	0.63	1613	350
1-6	Nannofossil Chalk Ooze	1.412	1.649	2.71	62.9	20.0	62.2	0.52	1605	390
Core 2-1	Nannofossil Chalk Ooze		1.415	2.71	76.8	110.0	57.7			177
2-2	Nannofossil Chalk Ooze		1.725	2.71	58.4	23.0	55.5	0.32	1779	228
2-3	Nannofossil Chalk Ooze	1.520	1.726	2.71	58.4			0.43	1687	196
2-4	Nannofossil Chalk Ooze		1.724	2.71	58.5			0.48	1733	205
2-5	Nannofossil Chalk Ooze		1.731	2.71	58.1	20.0	54.9	0.22	1683	214
2-6	Nannofossil Chalk Ooze		1.728	2.71	58.2	20.0	52.0	0.52	1704	222
Core 3-1	Nannofossil Chalk Ooze	1.766	1.746	2.71	57.2	34.0	61.2	0.14	1851	206
3-2	Nannofossil Chalk Ooze	1.740	1.722	2.71	58.6	20.0	48.0	0.35	1811	182
3-3	Nannofossil Chalk Ooze	1.757	1.733	2.71	57.9	20.0	52.4	0.43	1849	186
3-4	Nannofossil Chalk Ooze	1.736	1.739	2.71	57.6	20.0	54.7		1840	198
3-5	Nannofossil Chalk Ooze	1.794	1.769	2.71	55.8			0.21	1878	202
3-6	Nannofossil Chalk Ooze	1.777	1.730	2.71	58.1			0.09	1905	215

^aSaturated bulk density derived by dividing net section weight by volume.

^bSaturated bulk density derived from gamma ray attenuation data (see text). Value given is average of all valid data points per section.

^cMean grain density is assigned, considering selected grain density measurements made and reported elsewhere in this volume, and gross mineralogy of the section.

^dPorosity is calculated: $\phi = \frac{\rho_g - \rho_B}{\rho_g - \rho_f}$; ρ_B is from GRAPE, average per section ρ_g is from column 5; $\rho_f = 1.024$; units in per cent of total volume.

TABLE 2 - *Continued*

Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
1.0	11.0	24.3	64.7	Silty Clay	20.0	84.8	0.0					
					20.0	82.3	0.0	89-100	7.69	-260	24	34.7
					20.0	87.5	0.0					
					20.0	84.8	0.0					
					20.0	79.3	0.0					
					20.00	85.6	0.0					
					110.00	89.5	0.0					
3.0	3.6	32.4	64.1	Silty Clay	25.0	89.6	0.0	36-47	7.48	-350	23	34.7
8.0	6.3	33.0	60.8	Silty Clay	24.0	87.0	0.0					
3.0	4.2	33.7	62.1	Silty Clay	25.0	89.5	0.0					
					20.0	90.9	0.0					
					20.0	93.8	0.0					
2.0	14.6	40.1	45.3	Silty Clay	34.0	91.0	0.0					
2.0	11.2	37.9	50.9	Silty Clay	20.0	97.0	0.0	90-100	6.92	-500	23	34.1
2.0	11.4	43.5	45.1	Silty Clay	20.0	88.6	0.0	69-140				
2.0	15.8	40.7	43.4	Silty Clay	20.0	90.8	0.0					
2.0	14.3	40.2	45.5	Silty Clay	20.0	94.0	0.0					
2.0	13.1	40.5	46.4	Silty Clay	20.0	88.3	0.0					

^ePorosity is by drying (shipboard measurements) and is corrected for salt.^fOnly the minimum penetrometer measurement per section is given.^gSonic velocity measurements were made aboard ship and are corrected to 23°C. Maximum of three measurements per section is shown.^hNatural gamma radiation: Average of middle 16 of 20 counts/3 inch/1.25 minutes minus 1350 background.ⁱGrainsize: Sand per cent of total weight greater than .062 millimeter; clay per cent of total weight less than .0039 millimeter; silt remainder of total weight.

TABLE 2 - *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) ^d Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Hole 62.0 - <i>Continued</i>						Interval cm	Per Cent			
Core 4-1	Nannofossil Chalk Ooze and Chalk	1.915	1.754	2.71	56.7			0.28	1996	273
4-2	Nannofossil Chalk Ooze and Chalk	1.917	1.875	2.71	49.6			0.23	1911	296
4-3	Nannofossil Chalk Ooze and Chalk	1.936	1.865	2.71	50.1			0.32	2099	262
4-4	Nannofossil Chalk Ooze and Chalk	1.900	1.700	2.71	59.9			0.12	1939	249
4-5	Nannofossil Chalk Ooze and Chalk	1.900	1.830	2.71	52.2			0.54	1939	266
4-6	Nannofossil Chalk Ooze and Chalk	1.902	1.738	2.71	57.6			0.18	1999	255
Core 5-1										
5-2	Nannofossil Chalk Ooze and Chalk	1.863	1.862	2.71	50.3				2022	112
5-3	Nannofossil Chalk Ooze and Chalk	1.892	1.898	2.71	48.2			0.37	2086	81
5-4	Nannofossil Chalk Ooze and Chalk	1.926	1.952	2.71	44.9			0.21	2296	120
Core 6-1	Nannofossil Chalk Limestone with Chert									
6-2										
Core 7-1	Dolomite									
Core 8-1	Dolomite and Basalt									
Hole 62.1										
Core 1-1	Foraminiferal Nannofossil Chalk Ooze								1595	
1-2		1.415	2.71	76.8				0.73	1566	918
1-3	Foraminiferal Nannofossil Marl Ooze	1.497	1.511	2.71	71.1			0.83	1533	557
Core 2-1	Foraminiferal Nannofossil Chalk Ooze									440
Core 2-2	Foraminiferal Nannofossil Chalk Ooze	1.497	1.500	2.71	71.8			1.46	1530	405
2-3	Foraminiferal Nannofossil Chalk Ooze		1.534	2.71	69.7			0.93	1514	465
2-4	Foraminiferal Nannofossil Chalk Ooze	1.524	1.530	2.71	70.0			0.90	1558	410
Core 3-1	Foraminiferal Nannofossil Chalk Ooze (not opened)									

TABLE 2 – *Continued*

Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
2.0	13.6	51.7	34.7	Clayey Silt	5.0	78.3	0.0	30-40	7.50	-346	24	34.1
					20.0	85.7	0.0					
					20.0	82.8	0.0					
					20.0	81.0	0.0					
					20.0	83.5	0.0					
					20.0	79.7	0.1					
14.0	14.2	47.6	38.2	Clayey Silt	20.0	89.1	0.0	30-40	7.52	-372	23	34.1
1.0	9.4	47.5	43.1	Clayey Silt	20.0	88.6	0.0					
					20.0	92.7	0.0					
30.0	2.4	29.3	68.3	Silty Clay	50.0	62.1	0.3	30-41	7.38	-310	24	34.1
4.0	2.9	36.6	60.4	Silty Clay	20.00	56.5	0.3					
								40-50	7.35	-426	24	34.1

TABLE 2 - *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Hole 62.1 - <i>Continued</i>						Interval cm	Per Cent			
Core 4-1	Nannofossil Chalk Ooze	1.481	1.499	2.71	71.9			1.28	1690	385
4-2	Nannofossil Chalk Ooze	1.486	1.519	2.71	70.6	20.0	69.3	1.81	1549	367
4-3	Nannofossil Chalk Ooze	1.500	1.511	2.71	71.1			1.02	1547	356
4-4	Nannofossil Chalk Ooze	1.536	1.549	2.71	68.8	20.0	70.5	0.75	1544	369
4-5	Nannofossil Chalk Ooze	1.544	1.576	2.71	67.3			0.81	1712	321
4-6	Nannofossil Chalk Ooze	1.560	1.570	2.71	67.6	20.0	66.5	0.68	1685	343
Core 5-1	Nannofossil Chalk Ooze (not opened)									
5-2										
5-3										
5-4										
Core 6-1	Nannofossil Marl Ooze	1.444	1.504	2.71	71.5	20.0	69.7	1.48	1548	360
6-2	Nannofossil Chalk Ooze	1.468	1.509	2.71	71.2	20.0	64.4	1.20	1545	347
6-3	Nannofossil Chalk Ooze	1.470	1.515	2.71	70.9	20.0	63.2	1.74	1562	346
6-4	Nannofossil Marl Ooze	1.491	1.531	2.71	70.0	20.0	50.2	1.03	1559	345
6-5	Nannofossil Chalk Ooze	1.516	1.536	2.71	69.6			1.75	1599	359
6-6	Nannofossil Chalk Ooze	1.503	1.588	2.71	66.5	20.0	45.9	1.28	1562	314
Core 7-1	Nannofossil Chalk Ooze	1.560	1.549	2.71	68.8	20.0	64.2	0.80	1560	347
7-2	Nannofossil Chalk Ooze	1.564	1.603	2.71	65.7	20.0	64.6	0.88	1570	346
7-3	Nannofossil Chalk Ooze	1.568	1.565	2.71	67.9			0.72	1545	404
7-4	Nannofossil Chalk Ooze	1.558	1.545	2.71	69.1	20.0	65.9	0.79	1563	396
7-5	Nannofossil Chalk Ooze	1.548	1.625	2.71	64.4			1.00	1555	397
7-6	Nannofossil Chalk Ooze	1.538	1.571	2.71	67.5	15.0	65.2	0.73	1545	388

TABLE 2 – *Continued*

	Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
	Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
2.0	16.5	28.9	54.7	Silty Clay	20.0	72.2	0.0						
						20.0	71.0	0.0					
2.0	6.8	30.9	62.3	Silty Clay	20.0	75.1	0.0						
2.0	5.0	25.5	69.5	Silty Clay	20.0	79.8	0.0						
4.0	4.3	32.7	63.0	Silty Clay	20.0	80.1	0.0						
2.0	12.0	33.3	54.8	Silty Clay	20.0	75.8	0.0	39-48	7.63	+145	23	34.1	
10.0	5.3	26.9	67.7	Silty Clay	20.0	50.1	0.0						
3.0	11.0	26.8	62.2	Silty Clay	20.0	81.0	0.0						
2.0	8.3	22.9	68.8	Silty Clay	20.0	73.6	0.0						
2.0	7.4	28.1	64.4	Silty Clay	20.0	59.1	0.0						
2.0	10.0	24.1	65.9	Silty Clay	20.0	74.3	0.0	30-38	7.27	-356	25	34.1	
2.0	33.5	14.0	52.4	Sandy Clay	20.0	76.0	0.0						
4.0	4.1	21.3	74.6	Silty Clay	20.0	67.5	0.0						
2.0	20.3	19.4	60.3	Sandy Clay	20.0	65.0	0.0						
2.0	9.7	27.5	62.8	Silty Clay	20.0	74.3	0.0						
2.0	19.2	20.3	60.5	Silty Clay	20.0	61.8	0.0						
2.0	21.7	21.0	57.3	Sand-Silt-Clay	20.0	88.3	0.0						
2.0	3.5	21.6	74.8	Silty Clay	15.0	77.0	0.0						

TABLE 2 - *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Hole 62.1 - <i>Continued</i>						Interval cm	Per Cent			
Core 8-1										
Core 8-2	Nannofossil Chalk Ooze	1.402	1.623	2.71	64.5			0.99		349
8-3	Nannofossil Chalk Ooze	1.593	1.605	2.71	65.5	20.0	68.1	0.74	1577	371
8-4	Nannofossil Chalk Ooze	1.597	1.628	2.71	64.2	20.0	66.1	0.80	1545	397
8-5	Nannofossil Chalk Ooze	1.404	1.612	2.71	65.1	20.0	65.2	0.98		448
8-6	Nannofossil Chalk Ooze	1.599	1.625	2.71	64.4	20.0	65.9	1.06	1549	385
Core 9-1										
9-2	Nannofossil Chalk Ooze	1.561	1.600	2.71	65.9			0.64	1550	408
9-3	Nannofossil Chalk Ooze	1.595	1.638	2.71	63.6	20.0	64.4	0.58	1547	398
9-4	Nannofossil Chalk Ooze	1.582	1.592	2.71	66.3			0.86	1566	409
9-5	Nannofossil Chalk Ooze								1574	
Core 10-1	Nannofossil Marl Ooze	1.551	1.576	2.71	67.3	20.0	66.7	0.71	1517	355
10-2	Nannofossil Chalk Ooze	1.535	1.550	2.71	68.8			0.74	1557	362
10-3	Nannofossil Chalk Ooze	1.566	1.575	2.71	67.3			0.62	1560	508
10-4	Nannofossil Chalk Ooze	1.558	1.573	2.71	67.4			0.67	1540	427
10-5	Nannofossil Chalk Ooze	1.624	1.589	2.71	66.5			0.47	1597	489
10-6	Nannofossil Chalk Ooze	1.635	1.634	2.71	63.8			0.43	1570	413
Core 11-1	Nannofossil Chalk Ooze	1.601	1.649	2.71	62.9			0.94	1612	387
11-2	Nannofossil Chalk Ooze	1.405	1.609	2.71	65.3			1.01	1616	364
11-3	Nannofossil Chalk Ooze	1.608	1.630	2.71	64.0			0.64	1577	388
11-4	Nannofossil Chalk Ooze	1.606	1.633	2.71	63.9			0.77	1597	393
11-5	Nannofossil Chalk Ooze	1.618	1.624	2.71	64.4	20.0	64.0	1.44	1628	455
11-6	Nannofossil Chalk Ooze		1.617	2.71	64.8			0.70	1604	357

TABLE 2 – *Continued*

	Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
	Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
2.0	10.0	22.9	67.1	Silty Clay		20.0	64.8	0.0					
2.0	13.2	23.8	63.0	Silty Clay		20.0	68.1	0.0					
2.0	13.5	17.0	69.6	Silty Clay		20.0	81.2	0.0					
2.0	11.6	26.2	62.2	Silty Clay		20.0	73.6	0.0	40-51	7.24	-586	24	34.1
2.0	9.3	23.2	67.5	Silty Clay		20.0	72.9	0.0					
2.0	19.1	19.2	61.7	Silty Clay		20.0	79.1	0.0					
2.0	23.2	16.0	60.8	Sandy Clay		20.0	74.0	0.0					
2.0	19.8	23.2	57.1	Silty Clay		20.0	47.8	0.1					
22.0	15.6	28.5	55.9	Silty Clay		40.0	76.0	0.1					
10.0	24.7	22.4	52.9	Sand-Silt-Clay		22.0	65.5	0.1					
5.0	22.6	21.0	56.4	Sand-Silt-Clay		40.0	76.9	0.1					
2.0	13.6	19.0	67.4	Silty Clay		20.0	72.5	0.1					
3.0	26.5	21.8	51.6	Sand-Silt-Clay		18.0	77.0	0.1					
						20.0	78.5	0.1					
2.0	12.6	26.0	61.4	Silty Clay		20.0	78.5	0.2					
						21.0	79.2	0.1					
3.0	17.8	20.3	61.9	Silty Clay		25.0	76.9	0.1					
2.0	20.6	33.1	46.3	Sand-Silt-Clay		20.0	68.9	0.0					
28.0	12.0	24.8	63.2	Silty Clay		40.0	77.6	0.1					

TABLE 2 - *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Hole 62.1 - <i>Continued</i>						Interval cm	Per Cent			
Core 12-1	Nannofossil Chalk Ooze	1.596	1.623	2.71	64.5			0.41	1563	361
12-2	Nannofossil Chalk Ooze	1.656	1.635	2.71	63.8	20.0	63.6	0.79	1577	324
12-3	Nannofossil Chalk Ooze	1.694	1.672	2.71	61.6			0.86	1653	319
12-4	Nannofossil Chalk Ooze	1.692	1.692	2.71	60.4			0.54	1589	339
12-5	Nannofossil Chalk Ooze	1.681	1.649	2.71	62.9			0.69	1608	318
12-6	Nannofossil Chalk Ooze	1.684	1.682	2.71	60.9			0.28	1616	348
Core 13-1	Nannofossil Chalk Ooze									
13-2	Nannofossil Chalk Ooze		1.452	2.71	74.6					
13-3	Nannofossil Chalk Ooze							0.78		289
13-4	Nannofossil Chalk Ooze		1.512	2.71	71.0					
13-5	Nannofossil Chalk Ooze		1.621	2.71	64.6			0.41	1659	312
13-6	Nannofossil Chalk Ooze		1.536	2.71	69.6					
Core 14-1	Nannofossil Chalk Ooze		1.612	2.71	65.1			0.99		274
14-2	Nannofossil Chalk Ooze		1.554	2.71	68.6	29.0	62.6	1.00	1597	273
14-3	Nannofossil Chalk Ooze	1.575	1.627	2.71	64.3			0.80	1624	274
14-4	Nannofossil Chalk Ooze	1.574	1.636	2.71	63.7			1.02	1687	270
14-5	Nannofossil Chalk Ooze		1.590	2.71	66.4	67.0	62.2	0.84	1628	265
14-6	Nannofossil Chalk Ooze		1.493	2.71	72.2	24.0	61.6	0.65	1624	305
Core 15-1	Nannofossil Marl Ooze	1.620	1.677	2.71	61.3	32.0	63.0	0.37		296
15-2	Nannofossil Chalk Ooze	1.607	1.660	2.71	62.3			0.45	1661	288
15-3	Nannofossil Chalk Ooze	1.622	1.661	2.71	62.2	20.0	62.4	0.40	1612	297

TABLE 2 – *Continued*

	Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
	Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
	2.0	18.9	25.8	55.3	Silty Clay	20.0	78.9	0.1					
	2.0	19.2	24.4	56.4	Silty Clay	20.0	83.6	0.1					
	5.0	29.3	11.7	59.0	Sandy Clay	30.0	84.0	0.0					
	2.0	25.8	24.8	49.4	Sand-Silt-Clay	20.0	83.5	0.1					
	2.0	11.2	23.6	65.2	Silty Clay	20.0	82.4	0.1					
	2.0	22.1	19.8	58.1	Sandy Clay	20.0	86.2	0.1					
	91.0	7.9	24.9	67.3	Silty Clay	124.0	78.7	0.1					
	5.0	16.4	23.1	60.4	Silty Clay	71.0	85.8	0.1					
	2.0	22.0	21.9	56.0	Sand-Silt-Clay	20.0	84.0	0.1					
	4.0	21.6	22.5	55.9	Sand-Silt-Clay	49.0	86.3	0.2					
	51.0	26.8	21.4	51.9	Sand-Silt-Clay	89.0	85.9	0.1					
	5.0	28.1	20.0	51.9	Sand-Silt-Clay	29.0	84.5	0.1					
	2.0	30.8	18.3	50.9	Sandy Clay	20.0	86.6	0.0					
	5.0	24.6	22.8	52.6	Sand-Silt-Clay	57.0	77.8	0.0					
	6.0	39.0	32.0	29.0	Sand-Silt-Clay	67.0	85.6	0.0	73-80	7.46	+146	24	34.7
	12.0	22.6	21.3	56.1	Sand-Silt-Clay	24.0	84.3	0.0					
	2.0	31.5	22.5	45.9	Sand-Silt-Clay	32.0	41.8	0.0					
						20.0	85.6	0.0					
						20.0	86.6	0.0					

TABLE 2 - *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
				Interval cm	Per Cent					
Hole 62.1 - <i>Continued</i>										
Core 15-4	Nannofossil Chalk Ooze	1.617	1.664	2.71	62.1	20.0	64.4	0.39	1648	336
15-5	Nannofossil Chalk Ooze	1.611	1.666	2.71	61.9			0.19	1664	310
15-6	Nannofossil Chalk Ooze	1.622	1.677	2.71	61.3	20.0	58.5	0.33	1659	318
Core 16-1	Nannofossil Chalk Ooze	1.408	1.640	2.71	63.5	20.0	56.3	0.47		333
16-2	Nannofossil Chalk Ooze		1.653	2.71	62.7			0.61	1668	302
16-3	Nannofossil Chalk Ooze	1.649	1.688	2.71	60.6	20.0	59.6	0.18	1664	293
16-4	Nannofossil Chalk Ooze		1.701	2.71	59.8			0.59	1630	314
16-5	Nannofossil Chalk Ooze	1.670	1.692	2.71	60.4			0.63	1656	268
16-6	Nannofossil Chalk Ooze	1.671	1.725	2.71	58.4	20.0	60.2	0.26	1666	275
Core 17-1	Nannofossil Chalk Ooze		1.646	2.71	63.1					310
17-2	Nannofossil Chalk Ooze	1.700	1.692	2.71	60.4			0.41	1612	314
17-3	Nannofossil Chalk Ooze	1.703	1.691	2.71	60.4	20.0	60.4	0.26	1605	318
17-4	Nannofossil Chalk Ooze	1.723	1.705	2.71	59.6			0.34	1702	318
17-5	Nannofossil Chalk Ooze	1.725	1.713	2.71	59.2			0.44	1631	269
17-6	Nanofossil Chalk Ooze	1.713	1.721	2.71	58.6			0.40	1582	352
Core 18-1	Nanofossil Chalk Ooze	1.718	1.773	2.71	55.6	20.0	57.7	0.48	1718	269
18-2	Nannofossil Chalk Ooze	1.739	1.766	2.71	56.0	20.0	55.7	0.49	1726	263
18-3	Nannofossil Chalk Ooze	1.737	1.716	2.71	58.9	20.0	61.6	0.51	1683	288
18-4	Nannofossil Chalk Ooze	1.730	1.756	2.71	56.6	20.0	57.1	0.20	1707	287
18-5	Nannofossil Chalk Ooze	1.720	1.735	2.71	57.8			0.80	1730	227
18-6	Nannofossil Chalk Ooze	1.710	1.767	2.71	55.9	17.0	57.3	0.25	1691	313
Core 19-1	Nannofossil Chalk Ooze		1.666	2.71	61.9					280
19-2	Nannofossil Chalk Ooze		1.680	2.71	61.1	90.0	58.5	0.88	1730	242
19-3	Nannofossil Chalk Ooze		1.774	2.71	55.5			0.37	1725	283

TABLE – *Continued*

	Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
	Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
						20.0	60.1	0.0					
						20.0	67.6	0.0					
						20.0	82.9	0.1					
3.0	8.7	24.1	67.2	Silty Clay	20.0	90.1	0.1						
						40.0	88.5	0.0					
4.0	3.2	22.5	74.3	Silty Clay	20.0	86.8	0.0						
2.0	23.5	21.4	55.0	Sand-Silt-Clay	20.0	83.6	0.0						
						21.0	89.2	0.1	49-59	7.26	+165	24	34.4
3.0	14.5	23.3	62.2	Silty Clay	20.0	80.7	0.2						
122.0	15.7	16.2	68.1	Silty Clay	136.0	86.4	0.1						
6.0	17.3	17.5	65.2	Silty Clay	20.0	86.4	0.0						
						20.0	97.3	0.0					
4.0	10.8	22.5	66.7	Silty Clay	20.0	89.7	0.0						
						20.0	93.0	0.2					
2.0	20.9	33.5	45.6	Sand-Silt-Clay	20.0	83.2	0.2						
2.0	19.1	22.8	58.2	Silty Clay	20.0	88.0	0.1						
						20.0	91.1	0.0	40-50	7.56	+159	24	34.7
2.0	19.8	20.2	60.0	Silty Clay	20.0	94.0	0.1						
2.0	20.7	27.3	51.9	Sand-Silt-Clay	20.0	93.5	0.0						
4.0	21.6	27.0	51.4	Sand-Silt-Clay	20.0	87.9	0.0						
3.0	13.7	34.9	51.4	Silty Clay	17.0	88.8	0.0						
78.0	16.9	28.9	54.2	Silty Clay	85.0	91.7	0.1						
30.0	26.1	25.3	48.6	Sand-Silt-Clay	90.0	94.6	0.0						
3.0	26.4	22.7	50.9	Sand-Silt-Clay	20.0	96.0	0.0						

TABLE 2 – *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) ^d Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Hole 62.1 – Continued						Interval cm	Per Cent			
Core 19-4	Nannofossil Chalk Ooze	1.698	1.761	2.71	56.3	20.0	58.1	0.48	1715	267
	19-5 Nannofossil Chalk Ooze	1.700	1.706	2.71	59.6			0.73	1677	272
	19-6 Nannofossil Chalk Ooze		1.765	2.71	56.0			0.19	1632	294
Core 20-1	Nannofossil Chalk Ooze		1.715	2.71	59.0	20.0	57.3	0.33	1690	255
	20-2 Nannofossil Chalk Ooze	1.739	1.736	2.71	57.8			0.27	1669	256
	20-3 Nannofossil Chalk Ooze		1.742	2.71	57.4			0.14	1640	253
	20-4 Nannofossil Chalk Ooze	1.698	1.765	2.71	56.1			0.18	1675	265
	20-5 Nannofossil Chalk Ooze	1.720	1.744	2.71	57.3			0.45	1669	236
	20-6 Nannofossil Chalk Ooze		1.750	2.71	56.9			0.34	1542	255
Core 21-1	Nannofossil Chalk Ooze and Chalk		1.721	2.71	58.7	20.0	57.3	0.15	1588	213
	21-2 Nannofossil Chalk Ooze and Chalk		1.778	2.71	55.3			0.66	1688	266
	21-3 Nannofossil Chalk Ooze and Chalk	1.736	1.783	2.71	55.0			0.23	1614	255
	21-4 Nannofossil Chalk Ooze and Chalk	1.738	1.798	2.71	54.1			0.28	1613	231
	21-5 Nannofossil Chalk Ooze and Chalk	1.778	1.800	2.71	54.0			0.33	1707	243
	21-6 Nannofossil Chalk Ooze and Chalk		1.804	2.71	53.7			0.20	1615	173
Core 22-1	Nannofossil Chalk Ooze and Chalk	1.723	1.761	2.71	56.3	20.0	56.1	0.26	1530	223
	22-2 Nannofossil Chalk Ooze and Chalk	1.700	1.766	2.71	56.0			0.37	1636	229
	22-3 Nannofossil Chalk Ooze and Chalk	1.799	1.808	2.71	53.5			0.25	1741	245
	22-4 Nannofossil Chalk Ooze and Chalk		1.780	2.71	55.2			0.36	1627	224
	22-5 Nannofossil Chalk Ooze and Chalk	1.808	1.822	2.71	52.7			0.56	1699	209
	22-6 Nannofossil Chalk Ooze and Chalk	1.706	1.742	2.71	57.4			0.31	1555	230
Core 23-1	Nannofossil Chalk Ooze and Chalk		1.769	2.71	55.8			0.19	1554	234
	23-2 Nannofossil Chalk Ooze and Chalk		1.792	2.71	54.5			0.44	1671	233
	23-3 Nannofossil Chalk Ooze and Chalk	1.763	1.795	2.71	54.2			0.42	1546	250

TABLE 2 – *Continued*

	Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
	Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
3.0	23.6	23.8	52.5	Sand-Silt-Clay	20.0	92.4	0.0						
2.0	25.8	25.9	48.4	Sand-Silt-Clay	20.0	92.0	0.0						
3.0	18.8	27.8	53.4	Silty Clay	23.0	62.0	0.0						
4.0	31.8	24.1	44.1	Sand-Silt-Clay	20.0	90.8	0.0						
2.0	18.7	28.4	52.9	Silty Clay	20.0	89.6	0.0						
2.0	29.8	23.5	46.7	Sand-Silt-Clay	20.0	93.1	0.0						
2.0	20.4	25.6	54.0	Sand-Silt-Clay	20.0	89.4	0.1						
3.0	34.3	24.8	41.0	Sand-Silt-Clay	20.0	93.0	0.0	40-47	7.43	+150	24	34.7	
4.0	13.1	29.9	57.0	Silty-Clay	20.0	92.9	0.0						
4.0	28.5	24.1	47.4	Sand-Silt-Clay	20.0	88.8	0.0						
11.0	31.9	24.9	43.2	Sand-Silt-Clay	20.0	94.3	0.1						
2.0	24.9	24.5	50.6	Sand-Silt-Clay	21.0	89.4	0.0						
3.0	24.8	20.7	54.5	Sand-Silt-Clay	25.0	83.3	0.0						
3.0	22.6	24.5	52.9	Sand-Silt-Clay	20.0	93.4	0.1						
3.0	21.7	20.8	57.5	Sand-Silt-Clay	23.0	74.5	0.0						
3.0	15.7	20.2	64.2	Silty Clay	20.0	92.2	0.0						
2.0	21.1	20.7	58.3	Sand-Silt-Clay	20.0	92.6	0.0						
2.0	17.0	22.9	60.1	Silty Clay	20.0	89.8	0.1						
3.0	20.2	19.1	60.7	Sandy Clay	20.0	90.5	0.1						
3.0	30.7	24.2	45.1	Sand-Silt-Clay	20.0	92.1	0.0						
4.0	11.8	23.3	64.9	Silty Clay	20.0	91.4	0.0						
7.0	8.1	29.1	62.8	Silty Clay	20.0	87.9	0.0						
4.0	14.2	21.9	63.9	Silty Clay	20.0	75.2	0.0						
2.0	19.1	20.6	60.2	Silty Clay	20.0	60.3	0.0						

TABLE 2 - *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) ^d Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Hole 62.1 - <i>Continued</i>						Interval cm	Per Cent			
Core 23-4	Nannofossil Chalk Ooze and Chalk		1.801	2.71	53.9			0.27	1561	244
23-5	Nannofossil Chalk Ooze and Chalk	1.790	1.790	2.71	54.6			0.66	1717	222
23-6	Nannofossil Chalk Ooze and Chalk	1.760	1.813	2.71	53.2			0.10		228
Core 24-1	Nannofossil Chalk and Chalk Ooze		1.817	2.71	53.0			0.33	1617	220
24-2	Nannofossil Chalk and Chalk Ooze	1.735	1.754	2.71	56.7			0.51	1761	205
24-3	Nannofossil Chalk and Chalk Ooze	1.752	1.784	2.71	54.9			0.27	1609	227
24-4	Nannofossil Chalk and Chalk Ooze	1.740	1.784	2.71	54.9			0.26	1641	243
24-5	Nannofossil Chalk and Chalk Ooze	1.761	1.771	2.71	55.7	20.0	55.5	0.37	1726	244
24-6	Nannofossil Chalk and Chalk Ooze	1.726	1.786	2.71	54.8			0.21	1587	225
Core 25-1	Nannofossil Chalk and Chalk Ooze		1.740	2.71	57.5			0.12	1609	248
25-2	Nannofossil Chalk and Chalk Ooze		1.739	2.71	57.6			0.56	1704	229
25-3	Nannofossil Chalk and Chalk Ooze		1.709	2.71	59.4			0.08	1601	250
25-4	Nannofossil Chalk and Chalk Ooze		1.743	2.71	57.4			0.07	1608	254
25-5	Nannofossil Chalk and Chalk Ooze	1.692	1.711	2.71	59.3			0.23	1678	223
25-6	Nannofossil Chalk and Chalk Ooze		1.732	2.71	58.0			0.08	1620	238
Core 26-1	Nannofossil Chalk and Chalk Ooze		1.750	2.71	56.9			0.05	1686	251
26-2	Nannofossil Chalk and Chalk Ooze	1.700	1.716	2.71	58.9	20.0	51.6	0.51	1656	220
26-3	Nannofossil Chalk and Chalk Ooze		1.754	2.71	56.7	43.0	53.1	0.07	1548	256
26-4	Nannofossil Chalk and Chalk Ooze	1.716	1.765	2.71	56.1			0.20	1632	231
26-5	Nannofossil Chalk and Chalk Ooze	1.695	1.729	2.71	58.2			0.25	1658	212
26-6	Nannofossil Chalk and Chalk Ooze		1.691	2.71	60.5			0.14	1577	215
Core 27-1	Nannofossil Chalk and Chalk Ooze		1.680	2.71	61.1			0.13		204
27-2	Nannofossil Chalk and Chalk Ooze		1.718	2.71	58.8			0.23	1664	216
27-3	Nannofossil Chalk and Chalk Ooze	1.721	1.736	2.71	57.7	29.0	56.5	0.05	1604	232

TABLE 2 – *Continued*

	Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
	Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
3.0	14.2	22.6	63.2	Silty Clay	20.0	89.2	0.0						
6.0	23.5	18.9	57.6	Sandy Clay	20.0	69.6	0.0						
3.0	10.3	25.4	64.3	Silty Clay	20.0	91.1	0.1						
3.0	16.6	18.4	65.0	Silty Clay	20.0	97.5	0.0						
13.0	22.7	19.8	57.5	Sandy Clay	47.0	94.0	0.0						
2.0	0.0	29.6	70.4	Silty Clay	20.0	90.0	0.0						
3.0	18.8	20.7	60.5	Silty Clay	20.0	90.5	0.0						
16.0	26.4	17.7	55.9	Sandy Clay	20.0	69.1	0.0	40-48	7.51	-185	24	34.1	
3.0	5.0	27.0	68.0	Silty Clay	20.0	86.0	0.0						
6.0	11.5	24.5	63.9	Silty Clay	20.0	90.5	0.0						
6.0	11.7	29.4	58.9	Silty Clay	20.0	87.1	0.0						
3.0	15.5	28.6	55.8	Silty Clay	21.0	88.7	0.0						
2.0	10.0	30.8	59.3	Silty Clay	20.0	85.3	0.0						
6.0	20.2	25.1	54.7	Sand-Silt-Clay	20.0	87.3	0.0						
2.0	10.1	34.2	55.7	Silty Clay									
7.0	20.1	26.6	53.3	Sand-Silt-Clay	20.0	76.4	0.0						
6.0	24.1	28.4	47.5	Sand-Silt-Clay					132-140	7.49	+130	24	34.7
3.0	18.2	27.0	54.8	Silty Clay	22.0	84.8	0.0						
3.0	20.5	25.0	54.5	Sand-Silt-Clay	20.0	84.3	0.0						
					20.0	93.1	0.1						
3.0	19.3	28.5	52.2	Silty Clay	20.0	85.3	0.0						
67.0	18.1	25.4	56.4	Silty Clay	82.0	89.5	0.0						
7.0	23.6	28.8	47.6	Sand-Silt-Clay	20.0	86.0	0.0						
2.0	21.1	29.1	49.7	Sand-Silt-Clay	29.0	74.3	0.0						

TABLE 2 – *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
		Interval cm	Per Cent							
Hole 62.1 – <i>Continued</i>										
Core 27-4	Nannofossil Chalk and Chalk Ooze	1.725	1.776	2.71	55.4			0.04	1727	206
27-5	Nannofossil Chalk and Chalk Ooze	1.738	1.773	2.71	55.6			0.07	1633	224
27-6	Nannofossil Chalk and Chalk Ooze									
Core 28-1	Nannofossil Chalk and Chalk Ooze	1.679	1.685	2.71	60.8			0.21	1617	210
28-2	Nannofossil Chalk and Chalk Ooze	1.712	1.717	2.71	58.9			0.63	1705	214
28-3	Nannofossil Chalk and Chalk Ooze	1.711	1.753	2.71	56.7	47.0	56.3	0.10	1613	222
28-4	Nannofossil Chalk and Chalk Ooze		1.701	2.71	59.9			0.04	1607	219
28-5	Nannofossil Chalk and Chalk Ooze	1.661	1.671	2.71	61.6			0.12	1703	203
28-6	Nannofossil Chalk and Chalk Ooze	1.660	1.685	2.71	60.8			0.05	1620	210
Core 29-1	Nannofossil Chalk and Chalk Ooze	1.670	1.694	2.71	60.3			0.05	1675	217
29-2	Nannofossil Chalk and Chalk Ooze	1.660	1.689	2.71	60.5			0.52	1849	197
29-3	Nannofossil Chalk and Chalk Ooze	1.708	1.710	2.71	59.3			0.07	1690	219
29-4	Nannofossil Chalk and Chalk Ooze	1.674	1.684	2.71	60.9			0.18	1680	205
29-5	Nannofossil Chalk and Chalk Ooze	1.667	1.706	2.71	59.5			0.30	1716	193
29-6	Nannofossil Chalk and Chalk Ooze		1.700	2.71	59.9			0.18	1669	205
Core 30-1	Nannofossil Chalk and Chalk Ooze	1.729	1.735	2.71	57.8			0.24	1653	215
30-2	Nannofossil Chalk and Chalk Ooze	1.726	1.722	2.71	58.6	20.0	56.1	0.34	1763	181
30-3	Nannofossil Chalk and Chalk Ooze	1.739	1.754	2.71	56.7			0.04	1681	217
30-4	Nannofossil Chalk and Chalk Ooze	1.735	1.742	2.71	57.4			0.16	1657	191
30-5	Nannofossil Chalk and Chalk Ooze	1.767	1.739	2.71	57.6			0.32	1809	200
30-6	Nannofossil Marl and Marl Ooze	1.737	1.712	2.71	59.2			0.14	1629	184
Core 31-1	Nannofossil Chalk and Chalk Ooze	1.754	1.769	2.71	55.8			0.04	1645	207
31-2	Nannofossil Chalk and Chalk Ooze	1.756	1.754	2.71	56.7			0.26	1862	211
31-3	Nannofossil Chalk and Chalk Ooze	1.744	1.781	2.71	55.1			0.02	1662	203

TABLE 2 – *Continued*

Grainsize ⁱ					Carbon/Calcium Carbonate			Interstitial Water				
Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
2.0	26.5	26.3	47.2	Sand-Silt-Clay	20.0	88.0	0.0					
3.0	21.2	27.9	50.9	Sand-Silt-Clay	20.0	89.6	0.0					
3.0	18.9	30.3	50.8	Silty Clay	18.0	85.9	0.1					
3.0	18.2	31.5	50.3	Silty Clay	20.0	86.8	0.2					
2.0	1.2	39.9	58.9	Silty Clay	47.0	81.7	1.0					
3.0	22.4	30.9	46.6	Sand-Silt-Clay	21.0	74.3	1.3					
2.0	28.5	30.9	40.6	Sand-Silt-Clay	25.0	80.4	0.9	39-50	7.41	+89	24	34.7
					21.0	51.9	0.3					
3.0	24.9	32.7	42.4	Sand-Silt-Clay	20.0	92.0	0.1					
5.0	18.3	33.0	48.7	Silty Clay	20.0	86.4	0.0					
2.0	24.8	28.6	46.6	Sand-Silt-Clay	20.0	84.5	0.1					
2.0	27.0	56.1	16.9	Sandy Silt	20.0	84.4	0.1					
2.0	19.9	49.5	30.6	Clayey Silt	20.0	86.4	0.0					
3.0	21.0	31.0	48.0	Sand-Silt-Clay	20.0	85.1	0.0					
2.0	25.9	27.7	46.5	Sand-Silt-Clay	19.0	87.5	0.0					
2.0	15.6	28.4	56.0	Silty Clay	20.0	87.5	0.0	40-50	7.47	+102	24	34.7
2.0	23.7	29.6	46.7	Sand-Silt-Clay	20.0	87.6	0.0					
2.0	18.5	27.2	54.4	Silty Clay	20.0	90.8	0.0					
2.0	22.3	27.7	50.0	Sand-Silt-Clay	20.0	89.1	0.0					
2.0	9.8	33.2	57.0	Silty Clay	20.0	40.7	0.0					
1.0	19.8	31.4	48.8	Silty Clay	20.0	87.6	0.0					
2.0	16.4	36.0	47.6	Silty Clay	20.0	85.8	0.0					
4.0	20.5	33.9	45.6	Sand-Silt-Clay	20.0	87.1	0.0					

TABLE 2 - *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) ^d Per Cent	Porosity (Drying, Ship) ^e		Penetrometer cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Interval cm	Per Cent									
Hole 62.1 - <i>Continued</i>										
Core 31-4	Nannofossil Chalk and Chalk Ooze	1.722	1.790	2.71	54.6			0.03	1639	199
31-5	Nannofossil Chalk and Chalk Ooze	1.759	1.701	2.71	59.9			0.20	1746	177
31-6	Nannofossil Chalk and Chalk Ooze	1.728	1.780	2.71	55.1			0.07	1623	204
Core 32-1	Nannofossil Chalk	1.743	1.725	2.71	58.4			0.36	1763	201
32-2	Nannofossil Chalk	1.751	1.752	2.71	56.8			0.19	1801	175
32-3	Nannofossil Chalk	1.756	1.738	2.71	57.6			0.23	1749	213
32-4	Nannofossil Chalk	1.735	1.731	2.71	58.1			0.13	1847	247
32-5	Nannofossil Chalk	1.759	1.731	2.71	58.1			0.17	1829	210
32-6	Nannofossil Chalk	1.704	1.730	2.71	58.1			0.01	1837	237
Core 33-1										
33-2	Nannofossil Chalk	1.734	1.750	2.71	56.9			0.32	1809	210
33-3	Nannofossil Chalk	1.740	1.767	2.71	55.9			0.12	1700	228
Core 34-1	Nannofossil Chalk	1.830	1.734	2.71	57.9			0.04	1847	296
34-2	Nannofossil Chalk	1.771	1.806	2.71	53.6			0.18	1812	267
34-3	Nannofossil Chalk	1.868	1.791	2.71	54.5			0.20	1848	316
34-4	Nannofossil Chalk	1.782	1.797	2.71	54.2			0.03	1874	288
34-5	Nannofossil Chalk	1.845	1.835	2.71	51.9			0.11	2005	293
34-6	Nannofossil Chalk	1.805	1.833	2.71	52.0			0.07	1879	248
Core 35-1	Nannofossil Chalk	1.707	1.711	2.71	59.2			0.18	1600	244
35-2	Nannofossil Chalk	1.514	1.713	2.71	59.1			0.06	1835	214
35-3	Nannofossil Chalk	1.706	1.741	2.71	57.5			0.02	1792	253
35-4	Nannofossil Chalk	1.716	1.746	2.71	57.2			0.03	1807	266
35-5	Nannofossil Chalk	1.757	1.726	2.71	58.3			0.17	1771	240
35-6	Nannofossil Chalk	1.720	1.748	2.71	57.0			0.02		253
Core 36-1	Nannofossil Chalk									177
36-2	Nannofossil Chalk	1.690	1.712	2.71	59.2			0.12		220
36-3	Nannofossil Chalk	1.763	1.747	2.71	57.1			0.06		232
36-4	Nannofossil Chalk	1.790	1.804	2.71	53.7			0.05		241
36-5	Nannofossil Chalk	1.750	1.757	2.71	56.5			0.06		263
Core 37-1	Nannofossil Chalk									
37-2	Nannofossil Chalk	1.759	1.756	2.71	56.6			0.12		250
Core 38-1	Nannofossil Chalk (not opened)									
38-2	Nannofossil Chalk (not opened)									
38-3	Nannofossil Chalk (not opened)									
38-4	Nannofossil Chalk (not opened)									

TABLE 2 – *Continued*

Grainsize ⁱ					Interstitial Water			Carbon/Calcium Carbonate				
Interval cm	Sand Per Cent	Silt Per Cent	Clay Per Cent	Classification	Interval cm	Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %
1.0	13.6	37.8	48.6	Silty Clay	20.0	86.0	0.0					
					20.0	88.1	0.0					
1.0	13.1	44.0	42.9	Clayey Silt	20.0	89.5	0.0					
1.0	23.6	37.5	39.0	Sand-Silt-Clay	20.0	89.3	0.0					
2.0	25.3	37.4	37.2	Sand-Silt-Clay	20.0	90.6	0.0					
1.0	31.6	37.1	31.4	Sand-Silt-Clay	20.0	93.0	0.0					
1.0	36.9	32.3	30.8	Sand-Silt-Clay	20.0	74.3	0.0					
2.0	28.8	36.1	35.0	Sand-Silt-Clay	20.0	89.3	0.0					
1.0	35.1	34.4	30.5	Sand-Silt-Clay	20.0	86.6	0.0					
0.0	32.9	35.1	32.0	Sand-Silt-Clay	20.0	83.6	0.0					
1.0	25.9	35.7	38.4	Sand-Silt-Clay	20.0	80.8	0.0					
4.0	19.4	36.3	44.3	Silty Clay	41.0	81.3	0.0					
					22.0	85.1	0.0					
					20.0	77.6	0.0					
2.0	19.6	38.8	41.6	Silty Clay	20.0	82.7	0.0					
4.0	26.3	38.7	35.0	Sand-Silt-Clay	20.0	85.6	0.0	40-50	7.96	+139	24	34.7
					20.0	86.9	0.1					
30.0	18.7	38.4	42.9	Silty Clay	20.0	77.5	0.1					
2.0	21.1	41.7	37.2	Sand-Silt-Clay	20.0	83.3	0.0					
2.0	20.2	39.3	40.5	Sand-Silt-Clay	20.0	84.6	0.0					
2.0	23.4	38.0	38.6	Sand-Silt-Clay	20.0	83.6	0.0					
4.0	24.6	43.9	31.5	Sand-Silt-Clay	20.0	80.0	0.0					
2.0	38.1	33.6	28.3	Sand-Silt-Clay	20.0	84.6	0.0					
2.0	33.2	37.2	29.6	Sand-Silt-Clay	20.0	84.8	0.0	122-132	8.10	+138	23	34.3
2.0	24.0	36.7	39.4	Sand-Silt-Clay	20.0	83.3	0.0					
2.0	20.2	12.5	67.3	Sandy Clay	20.0	88.3	0.0					
2.0	31.6	34.5	33.9	Sand-Silt-Clay	20.0	85.5	0.0					
2.0	30.8	35.9	33.3	Sand-Silt-Clay	20.0	83.6	0.0					

TABLE 2 – *Continued*

Identification	Lithology	Physical Properties								
		Saturated Bulk Density (Sect. Wt.) ^a gm/cm ³	Saturated Bulk Density (GRAPE) ^b gm/cm ³	Mean Grain Density ^c gm/cm ³	Porosity (Calculated) Per Cent	Porosity (Drying, Ship) ^e		Penetrometer ^f cm	Sonic Velocity ^g m/sec.	Natural Gamma Radiation ^h
Hole 62.1 – <i>Continued</i>						Interval cm	Per Cent			
Core 39-1	Nannofossil Chalk (not opened)									
39-2	Nannofossil Chalk (not opened)									
39-3	Nannofossil Chalk (not opened)									
39-4	Nannofossil Chalk (not opened)									

The Sedimentary Section

Lithologic changes: The sediments are strikingly uniform in composition from top to bottom, and aside from local contact metamorphism in the basal sediments, the only significant changes are those due to increasing induration. Substantial drops in drilling rates occurred through part of the middle Miocene, and again at the top of the Oligocene. The younger set of resistant layers correlates well with first groups of more or less uniformly well-indurated layers seen in examination of the cores, while the top of the older set of hard layers correlates with the first appearance of flinty chert nodules. At the first cherts the radiolarians (having been present throughout, except for an interval at about 350 to 360 meters) begin to disappear. Progressive effects of compaction, solution, and recrystallization of fine-grained carbonate plus solution of opaline silica and its recrystallization as chalcedonic quartz account for the major lithologic features. A more detailed account of these changes is given in the summary of Lithology.

Rates of accumulation: Using the ages assigned by Berggren (1969) for the foraminiferal N zones of Blow (1969), a rate-of-accumulation curve for the sediments at Site 62 can be drawn (Figure 7). The curve has the expected changed shape near the bottom of the hole, where the effects of compaction should be most evident, but the very high rate of accumulation in the lower part of the upper Miocene (Zone N 16) has no such obvious explanation. If the rate is real, an extraordinary- and short-lived increase in productivity in the overlying waters (presumably the South Equatorial Current) is implied. Alternatively, some of the effect might be due to poor knowledge of the age limits of N 16 and adjacent zones. If the base of N 16

were 12.5 million years, instead of 10 million years old, the inflection in the rate curve would disappear entirely. The uniform highly calcareous lithology throughout this and adjacent zones would argue in favor of a rate more in accord with the average in the upper part of the Tertiary at this site, and suggests that a re-examination of the radiometric guide posts in this part of the stratigraphic column might be in order.

Velocity-Depth Relations

A tentative velocity-depth relation is proposed for Site 62 based on the results of the drilling. Acoustic basement (basalt cored at 580 meters) is correlated with a diffuse reflector at 0.56 seconds (Figure 6) giving an average velocity for the column of 2.07 km/sec. Changes in the density and induration of the cored material suggests that velocity increases between 140 and 300 meters where there is a gradational change from chalk ooze to chalk. In view of the gradational nature of the increase in induration, an average velocity structure was arbitrarily assigned as follows:

This gives depths to the reflectors of 60 meters (0.07 second), 102 meters (0.12 second), 386 meters (0.39 second), 449 meters (0.45 second), 460 meters (0.47 second), and 581 meters (0.56 second).

Regional Relations

The results at Site 62 extend the region of mid-Tertiary basaltic basement far beyond the Caroline Ridge and reduce the possibility of encountering Mesozoic crust in this corner of the Pacific Basin. Mesozoic crust may be present at depth beneath or thoroughly invaded by Oligocene volcanic rocks.

TABLE 2 - *Continued*

Interval cm	Grainsize ⁱ				Classification	Carbon/Calcium Carbonate			Interstitial Water				
	Sand Per Cent	Silt Per Cent	Clay Per Cent	Interval cm		Calcium Carbonate Per Cent	Organic Carbon Per Cent	Interval cm	pH	Eh (mu)	Temp °C	Salinity %	

The question then poses itself: how was this Oligocene crust emplaced? One possibility is that a spreading center was active somewhere in the region—perhaps Eauripik Ridge itself was such a center, becoming extinct in late Oligocene times. The existence of a spreading center on the Ridge might give a plausible explanation for the enigmatic Mussau Trough on the other edge of the East Caroline Basin: the trough could then be an extinct trench paired with the ridge. Alternatively, there may have been many spreading centers, as there appear to have been in regions of complex topography, such as the Mariana Arc and Tonga areas.

REFERENCES

- Berggren, W. A., 1969. Rates of evolution in some Cenozoic planktonic foraminifera. *Micropaleontology*, 15, 351, Table 1.
- Blow, W. H., 1969. Late middle Eocene to Recent Planktonic foraminiferal biostratigraphy. In *Proc. First Intern. Conf. Planktonic Microfossils (Geneva, 1967)*. P. Bronnimann and H. H. Renz (Eds.). 1 Leiden (Brill) 1969, pp. 199-422, +54 pls.
- Riedel, W. R. 1971. Occurrence of pre-Quaternary Radiolaria in deep-sea sediments. In Funnell, B. M., and Riedel, W. R., *The Micropaleontology of Oceans*. Cambridge (Cambridge Univ. Press), in press.

APPENDIX – THIN SECTION DESCRIPTIONS

Leg 7, Site 62, Hole 0, Core 6, Section 1, 102 centimeters

Macro: The rock is white nannofossil chalky limestone. Many fine structures (cross beds, laminae, slumps). Associated with nodular chert.

Micro: The section includes coarse (grains $\sim 80\mu$) and fine 1 to 10 millimeter laminae, as well as recumbent microfolds.

Coarse laminae contain >50 per cent foraminifera in nannofossil matrix. Platy foraminifera lie parallel to bedding (even in microslumps). No obvious grading.

Fine layers contain 10 to 20 per cent of 50-micron foraminifera scattered through micrite (coccoliths and foraminiferal fragments) matrix.

Most foraminifera empty. High porosity. Possible slight calcification of foraminifera is only evidence of recrystallization. Discoasters rare, noncarbonate grains very rare. No evidence of silicification.

NOTE: "DSDP" is at top of section as cored.

Leg 7, Site 62, Hole 0, Core 6, Core Catcher

Macro: The rock is a mottled light olive gray (5Y6-7/1) chert with a rind of N9 white porous limestone. The chert shows a good conchoidal fracture. The chert-limestone boundary is simple and sharp in some places, involute and gradational in others.

Micro: The limestone sectioned is poorly sorted with ~20 per cent foraminifera in a micrite (coccolith-rich) matrix. Two thirds of the foraminiferal tests are empty, the remainder contain calcite debris. Large discoasters ($\sim 20\mu$) fairly common. Slight calcification of foraminifera. No silicification.

Boundary between chert and limestone mostly <10 microns thick at sharp contact. Virtually all components of limestone appear to be replaced simultaneously, although calcite inside foraminiferal chambers,

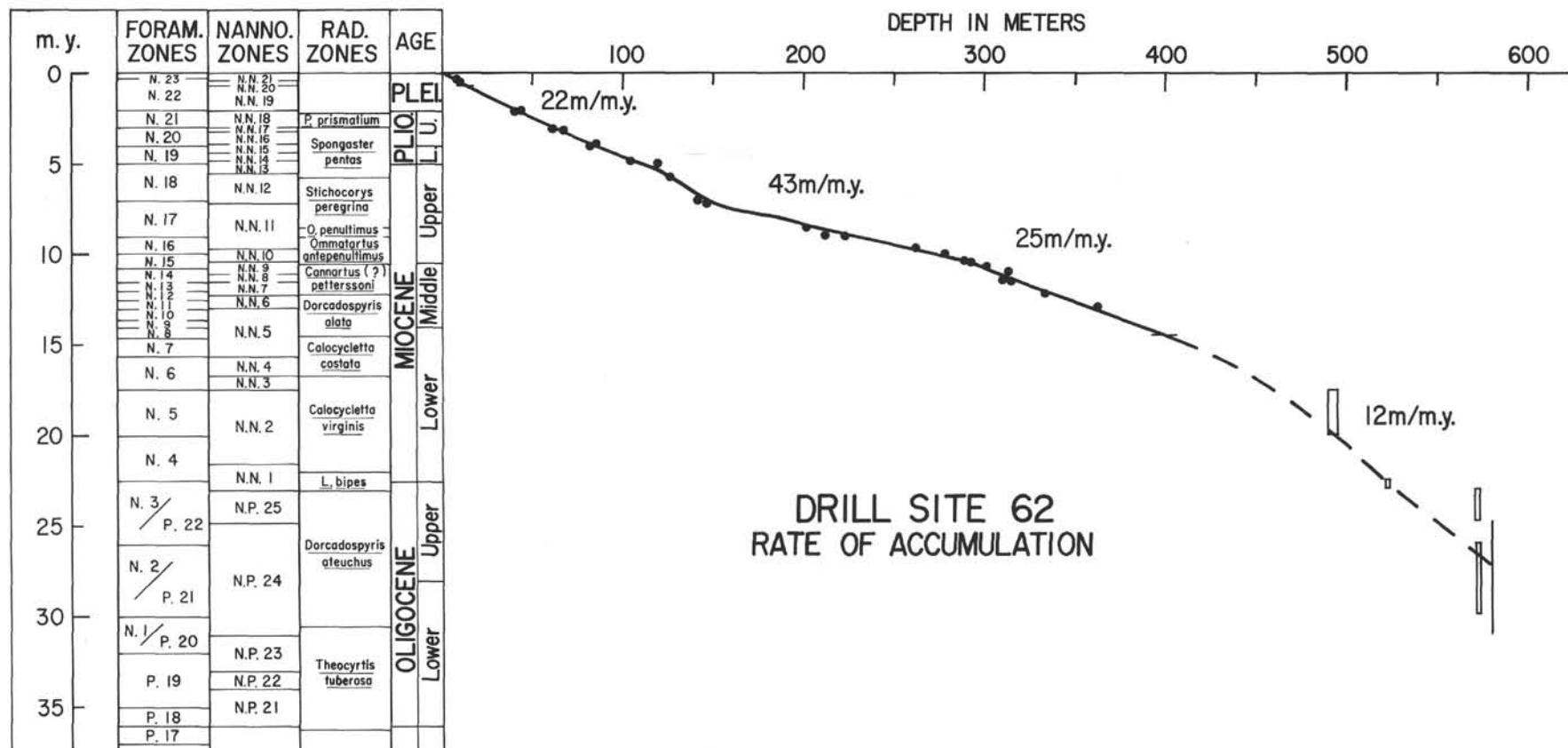


Figure 7. Rate of sediment accumulation at Site 62.

and less commonly foraminiferal walls, survive for several millimeters into the chert in some cases. groundmass of plagioclase and altered glass. Originally, the rock contained olivine In replaced foraminiferal walls, the chalcedonic fibers are of comparable size ($\sim 20\mu \times 5\mu$) and orientation to the antecedent calcite prisms. Elsewhere, the chert consists of a mosaic of equidimensional clusters of fibres 10 microns in diameter—inside formerly empty foraminiferal chambers—or 4 to 4 microns in diameter—when replacing micrite.

Where the chert-limestone boundary is gradational, empty foraminiferal chambers fill with chert (fibrous aggregates as above) inside limestone. The micrite matrix is silicified next over an interval of 150 to 300 microns, and finally the calcite prisms of the foraminiferal walls are replaced, often several millimeters inside the chert.

Nowhere in the section is the chert entirely free of carbonate, and the intensity of silification varies irregularly over a range of about 20 to 80 per cent.

Leg 7, Hole 62.0, Core 7, 0 to 2 centimeters

Macro: Rock is a “sugary” light brown dolomite, with scattered ~ 1 millimeter vuggy pores. Shows faint sub-horizontal irregular layering.

Micro: Holocrystalline, mostly subhedral to euhedral rhombs, close to 0.5-millimeter diameter. Original texture virtually obliterated, although rare ghosts of foraminifera and possible relict bedding can be seen. One or two per cent voids in thin section, but no interconnected porosity normal to bedding.

Horizontal lamination (very irregular and lensoid) is due to variations in white clay mineral trapped between rhombs.

About half the dolomite crystals have concentrations of 2 to 5 micron inclusions in their cores. Inclusions

seem to be misoriented carbonate (? relict calcite) in most cases.

Leg 7, Site 62, Hole 0, Core 8, Core Catcher

Macro: The rock is a dark gray, rather weathered looking basalt, with 1 to 2 millimeter carbonate veins and blebs, and ~ 1 -millimeter chlorite filled vesicles concentrated near the carbonate.

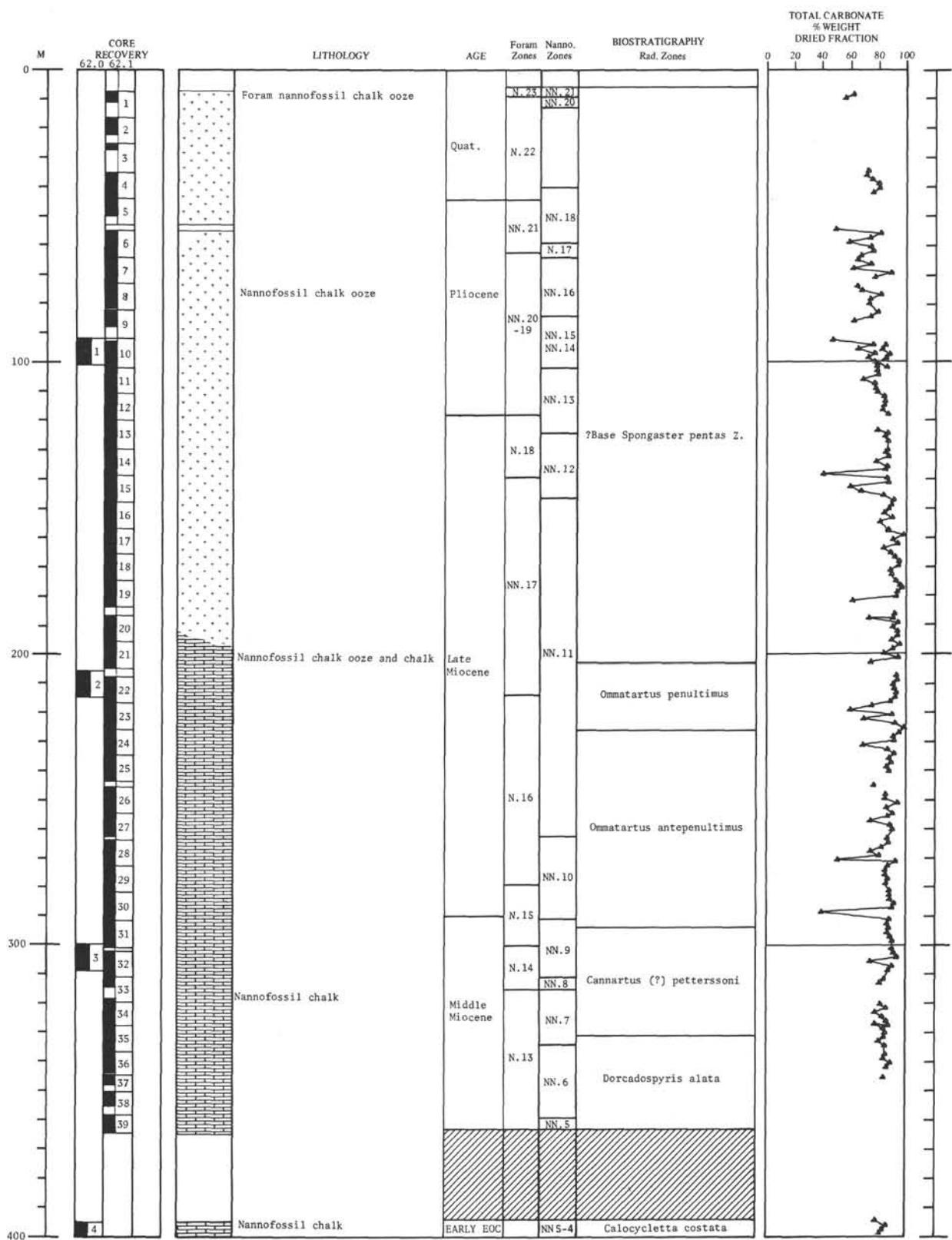
Micro: The rock consists of plagioclase laths $\sim 700 \times 70$ micron and rare equidimensional pyroxene anhedral crystals up to 500 microns in diameter in a groundmass of plagioclase and altered glass. Originally the rock contained olivine and ilmenite or magnetite (as evidenced by limonite and iddingsite pseudomorphs). Both pyroxene (almost colorless, nonpleochroic) and plagioclase are heavily altered to pale green montmorillonite. The plagioclase is at least An 70 (Michel Levy), but accurate determinations difficult due to alteration.

The groundmass consists of rounded 100 to 200 micron blebs of pale green ? montmorillonite and perhaps some chlorite (? originally microvesicles) separated by bunches and 100 to 200 micron fans of pale brown chlorite, apparently preserving the original textures of the glass.

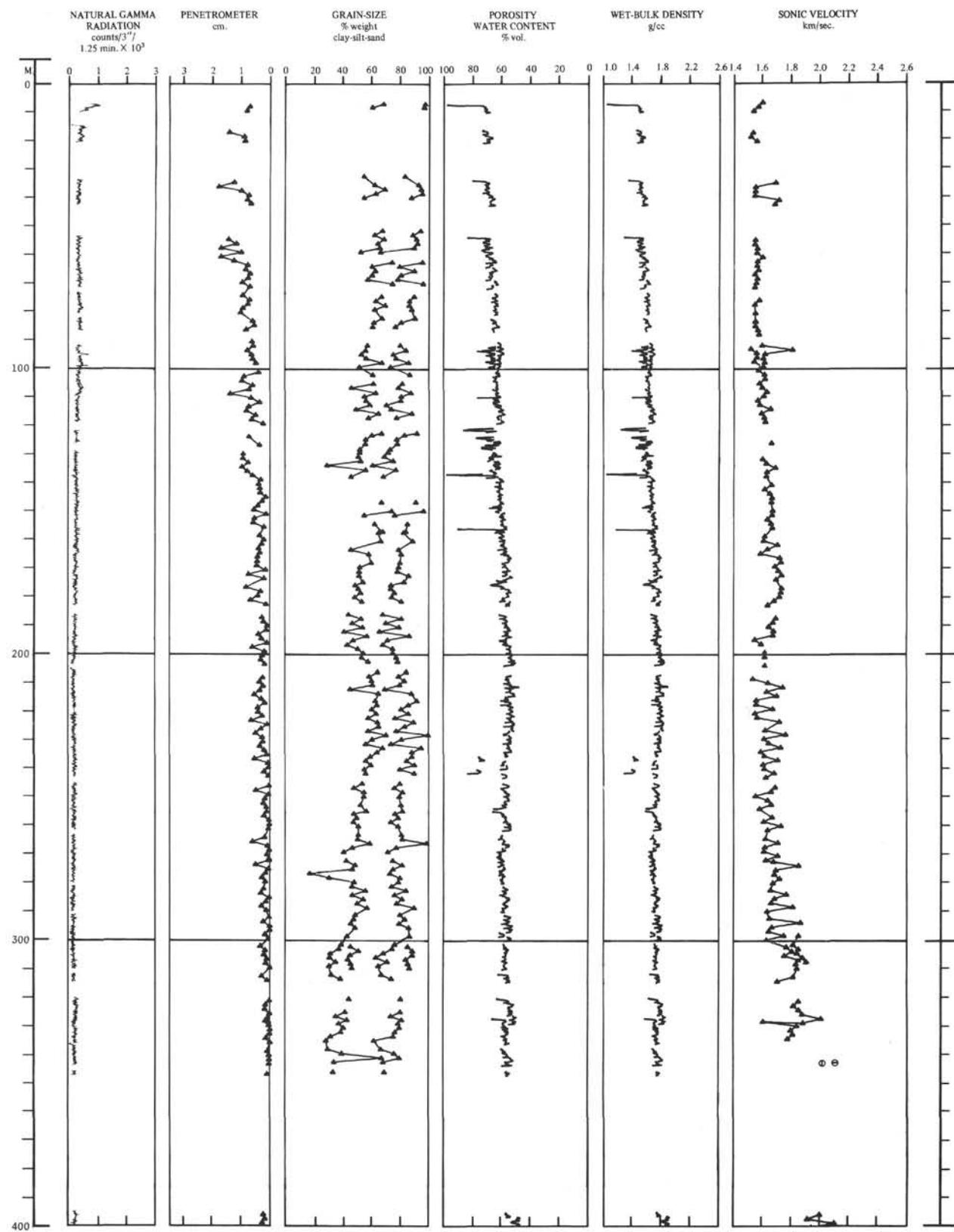
Larger vesicles contain 40 to 70 micron rim of chlorite and ? montmorillonite (pale green) grading to 50 to 70 micron blades of almost colorless ? montmorillonite normal to vesicle walls, and finally to cores of anhedral to subhedral laths of zeolite up to 300 microns in length.

Near the boundary with carbonate veins, the groundmass is more limonite stained, and green chlorite and zeolite are more abundant in vesicles.

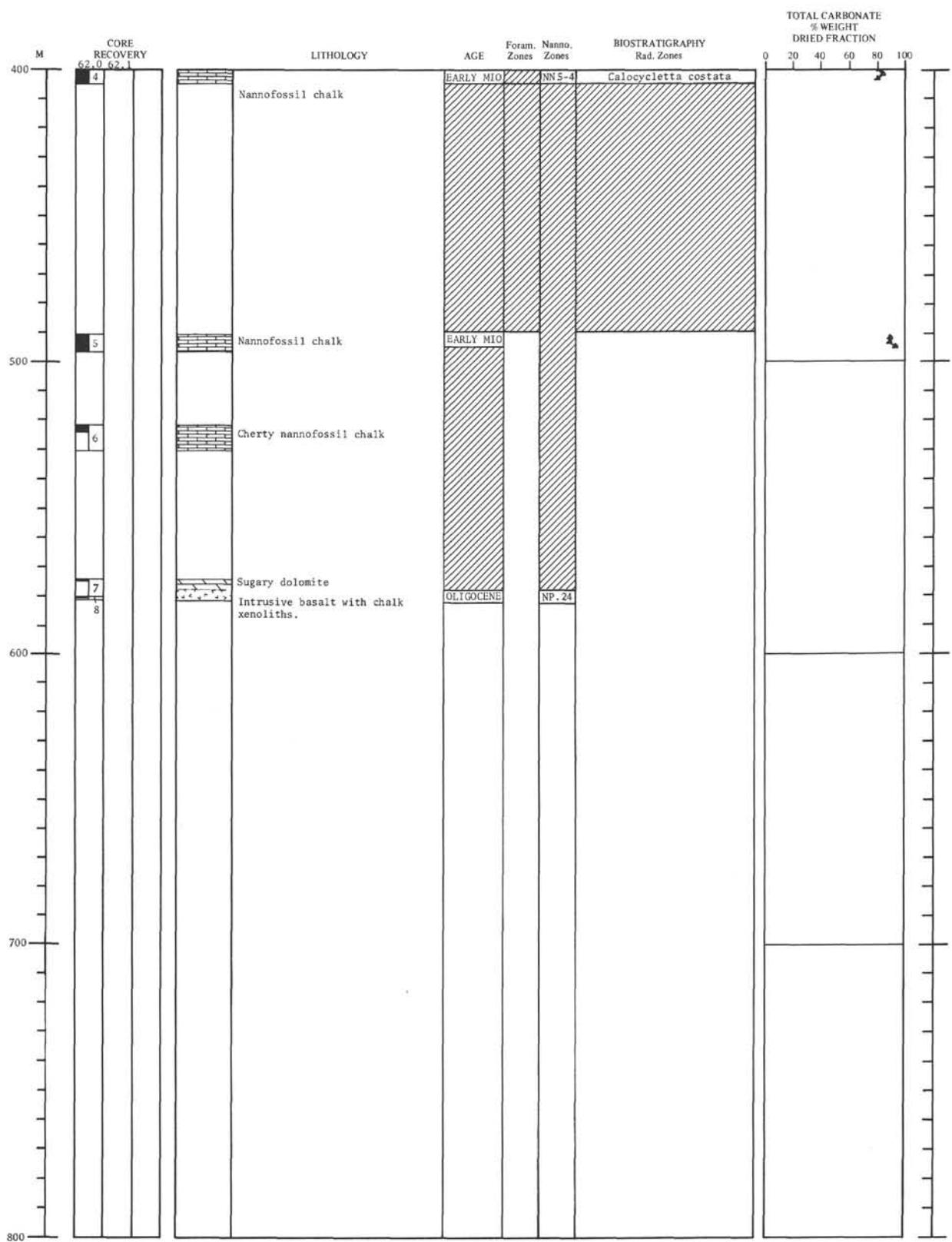
The carbonate veins consist of foraminifera and coccoliths, apparently little affected by incorporation into the basalt, although some empty foraminiferal chambers are filled with pale green chlorite and/or montmorillonite. Portions of the matrix are also impregnated with this material.



Lithology and biostratigraphy of Site 62, 0-400 m.

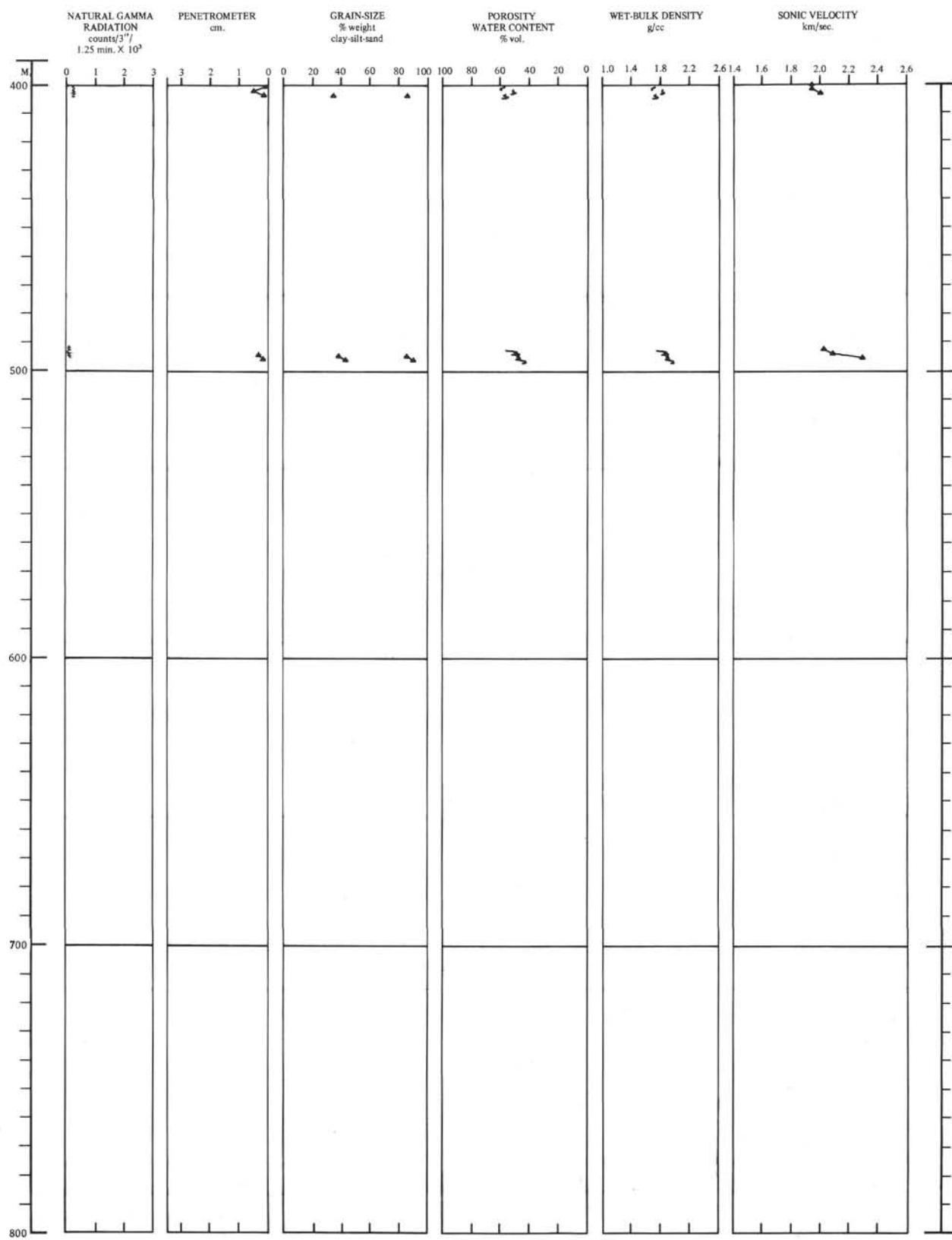


Physical properties of Site 62, 0-400 m.

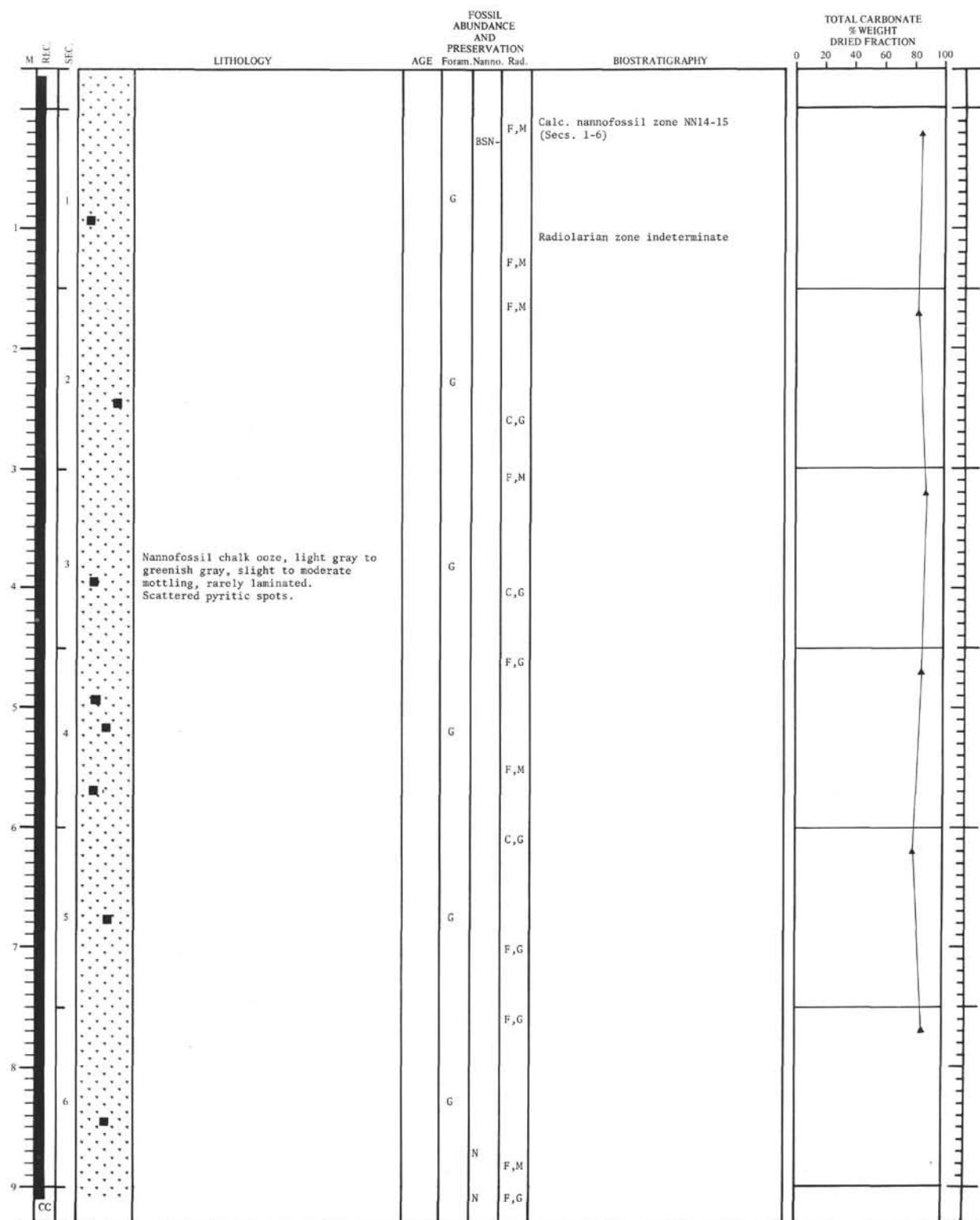


Lithology and biostratigraphy of Site 62, 400-800 m.

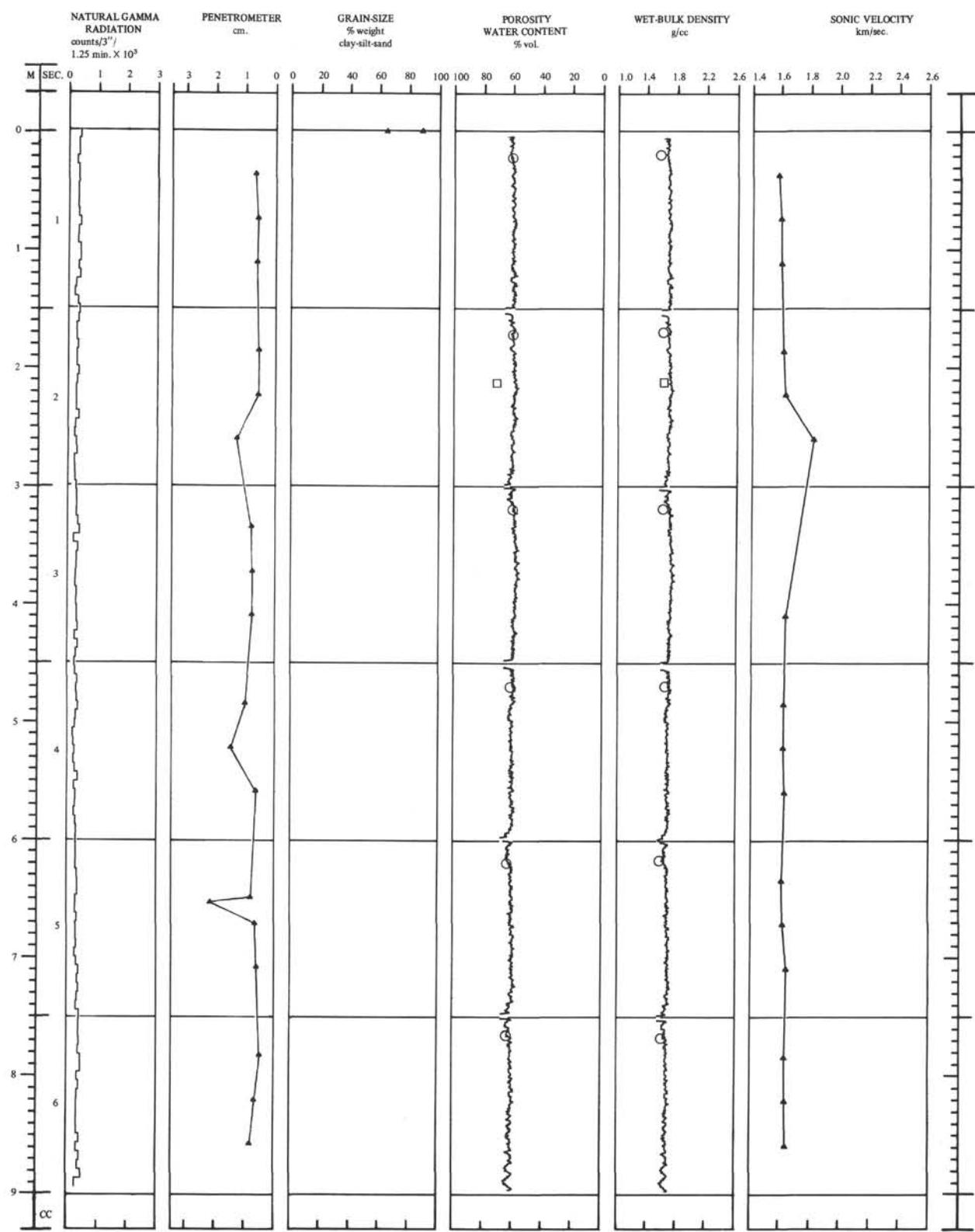
LEG VII SITE 62



Physical properties of Site 62, 400-800 m.



Lithology and biostratigraphy of Core 1, Hole 62.0.



Physical properties of Core 1, Hole 62.0.

Hole 62.0 Core 1 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25			* ← 1	NANNOFOSSIL OOZE Moderately mottled W/5GY 6/1 (green-gray) streaks and blebs. Occasional black specks to 3mm diameter.
50			* ← 2	
75				
100				(1) 5G7/1 (light green gray). (2) 5Gy/61 laminae, moderately deformed in thicker layers of 5G7/1 ooze. (3) 10G7/2 (pale green) layer 1cm thick. (4) Black specks pyrite ← 3 (5) N6 (medium light gray) laminae. ← 4
125			*	← 5
150				

Hole 62.0 Core 1 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25				
50				
75				
100			* ← 1	
125			* ← 3	2
150			← 4	

0-100cm:
N7-Light gray moderate mottling:
(1) 5Y6/1 - light olive gray.
(2) N6 - medium light gray.
scattered spots of N5 medium dark gray.

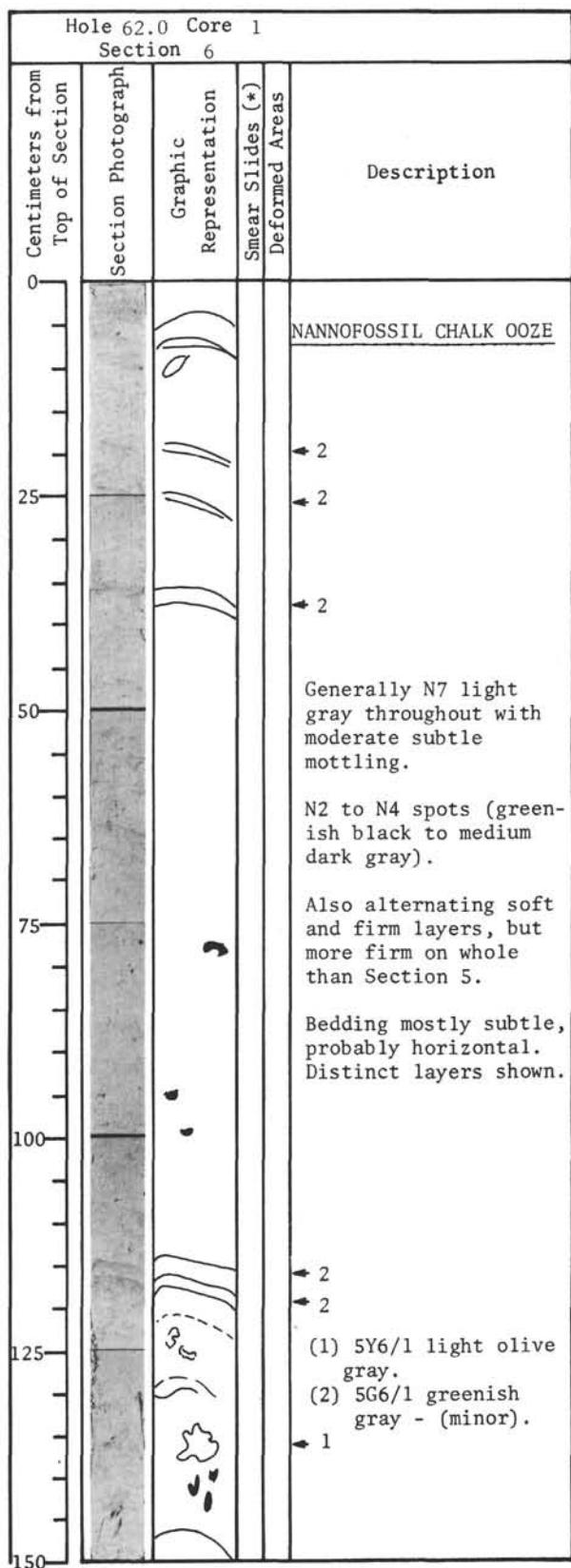
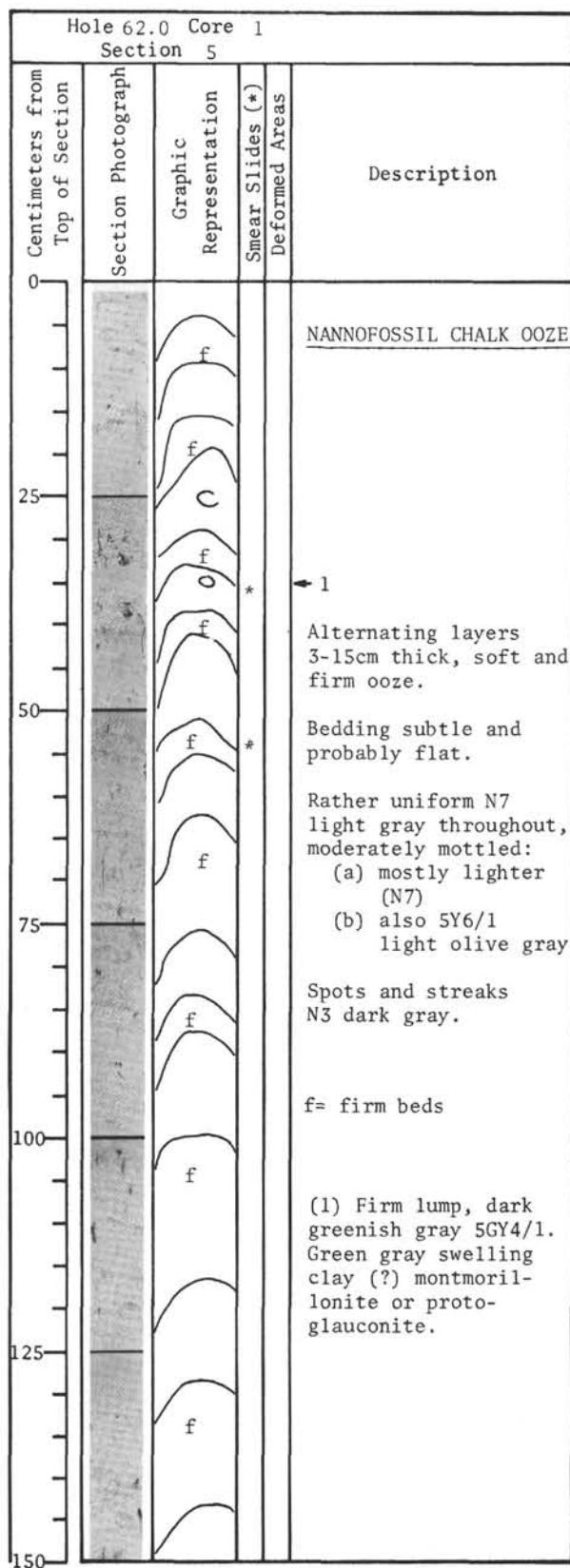
100-150cm:
5Y-7/1 light olive gray moderate mottling:
(3) 5GY5/1 greenish gray.
(4) N6 medium light gray.
scattered spots of N5 medium dark gray.

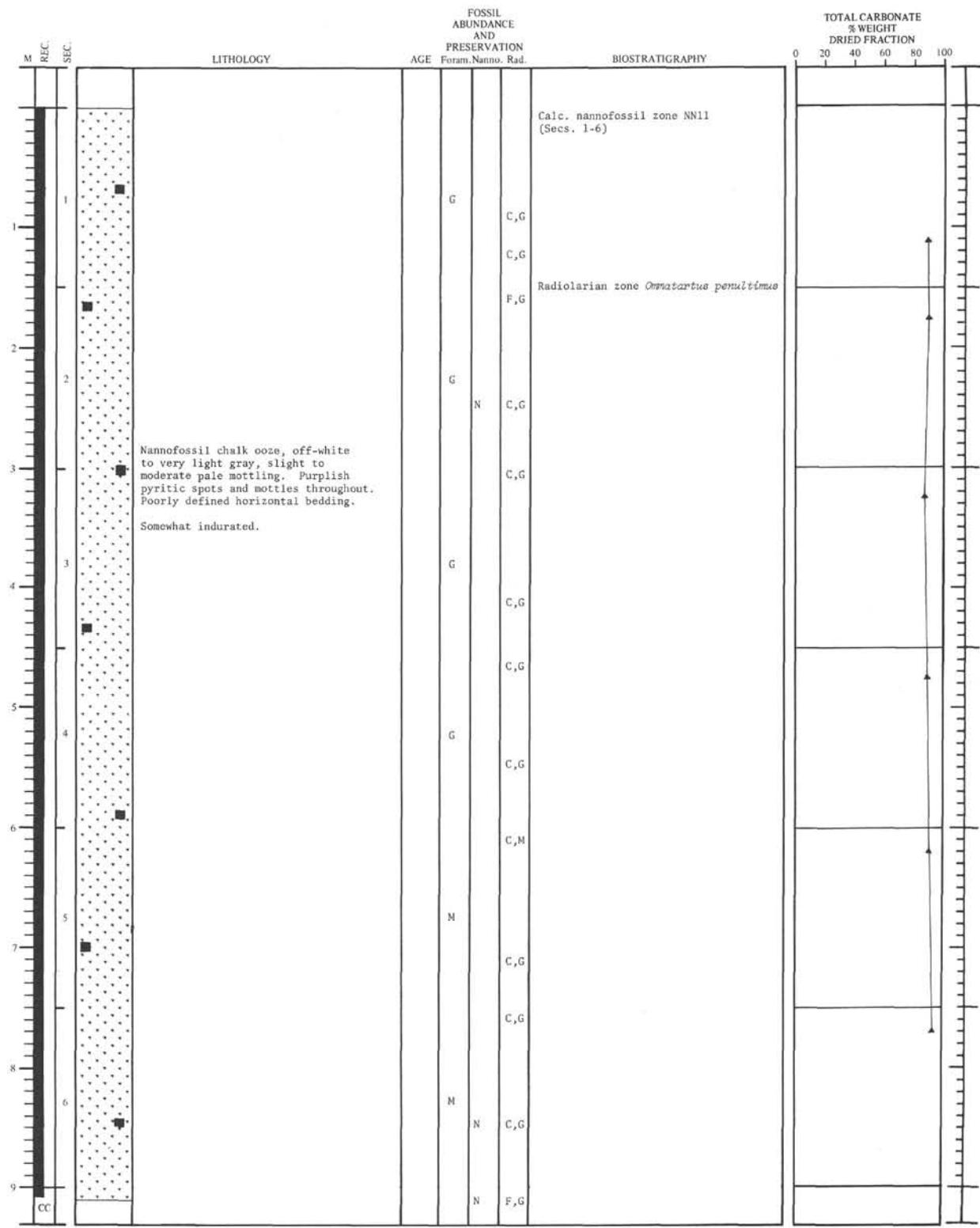
100-125cm:
(1) N6
(2) 5Y7/1
(3) N7
(4) 5Y6/1 greenish gray
(5) 5Y6/1 greenish gray

125-150cm:
← 5

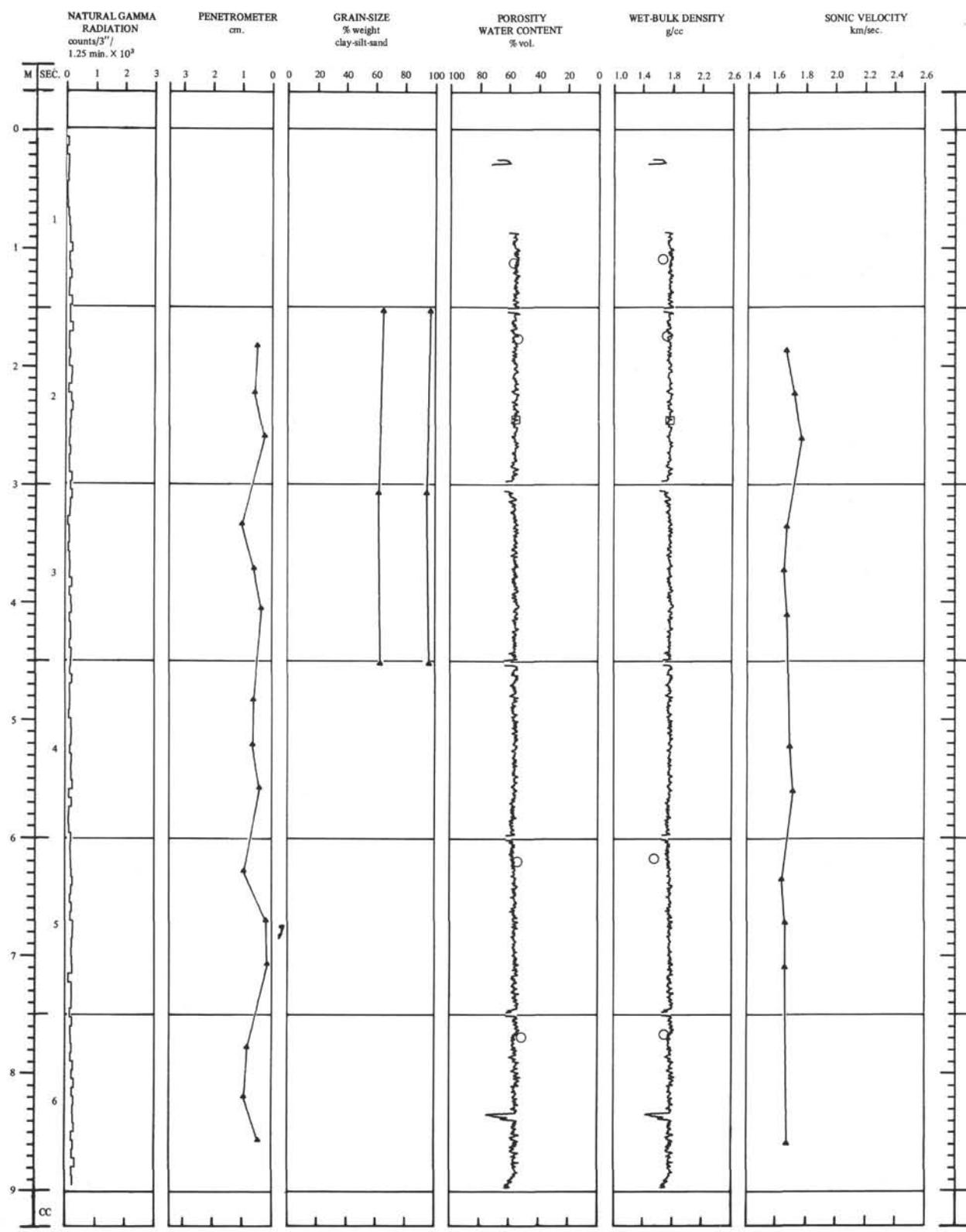
Hole 62.0 Core 1 Section 3			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas
Description			
0			
25			NANNOFOSSIL CHALK OOZE → 1 0-13cm: Light greenish gray (5GY8/1) mottling medium.
50			13-150cm: N8 very light gray moderate mottling: 5Y7/1 light olive gray. N6 medium light gray dark gray spots. Indistinct bedding, probably horizontal.
75			(1) 5G7/1 greenish gray.
100			
125			
150			

Hole 62.0 Core 1 Section 4			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas
Description			
0			
25			NANNOFOSSIL CHALK to marl ooze → 1 Basically 5GY8/1 light greenish gray.
50			Patches of strong mottling at 20-46cm, 54-71cm, 85-92cm (5Y 6/1 light olive gray with lesser N8 very light gray and 5YR2/1 brownish black (also spots, pyritic) other areas moderately in- distinctly mottled.
75			Bedding more or less horizontal, little distortion, indistinct.
100			
125			→ 2 (1) dark spot (pyritic) (2) cracks
150			





Lithology and biostratigraphy of Core 2, Hole 62.0.



Physical properties of Core 2, Hole 62.0.

Hole 62.0 Core 2 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				NANNOFOSSIL CHALK OOZE
25				0-80cm: Thoroughly mixed N8 very light gray chalk ooze with several stiffer lumps in very watery matrix. ? cavings.
50				80-150cm: Irregularly consolidated nannofossil chalk ooze N85 - off white, with patches of SB-P6/2 pale purplish blue and 5G6/1 greenish gray. Slightly to moderately mottled.
75				
100			* ← 1	
125			← 1	(1) Hard lumps
150				

Hole 62.0 Core 2 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				NANNOFOSSIL OOZE
25				Hard lumps of moderately mottled nannofossil chalk ooze (SGY8/1 light greenish gray with ~2mm mottles of grayish to purple blue 5P-PB 5/2) in homogeneous very light gray (N8) matrix of nanno chalk ooze.
50				0-3cm: Void
75				
100			← 1	
125			← 2	(1) Hard lumps (2) Matrix
150				

Hole 62.0 Core 2 Section 3					
Centimeters from Top of Section	Section Photograph			Graphic Representation	Description
				Smear Slides (*) Deformed Areas	
0					
25					<u>NANNOFOSSIL Ooze</u> Hard lumps of nanno-fossil ooze (light greenish gray 5GY8/1 with grayish to purple blue 5P-PB 5/2 spots and small moderate mottles) in homogeneous very light gray (N8) matrix.
50					
75					
100					
125					
150					

Hole 62.0 Core 2 Section 4					
Centimeters from Top of Section	Section Photograph			Graphic Representation	Description
				Smear Slides (*) Deformed Areas	
0					
25					<u>NANNOFOSSIL CHALK Ooze</u>
50					Basically slightly to moderately mottled firm 5GY8.5/1 (very light greenish gray) chalk ooze with spots of pyritic 5RP3/2 dusky grayish purple all in matrix of soft N8 very light gray churned up chalk ooze.
75					
100					
125					
150					

← 1
← 2
0-2cm: Void

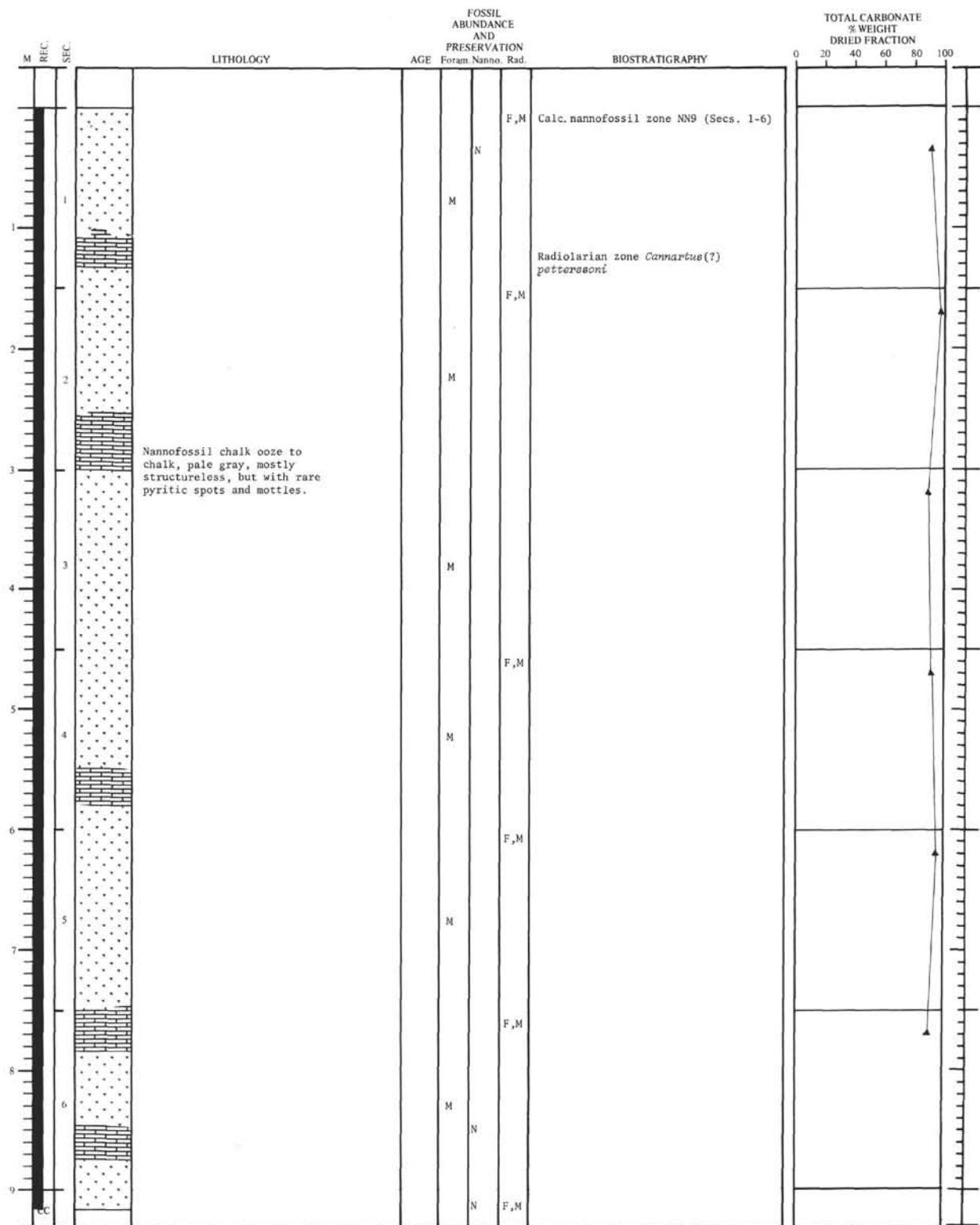
← 3

(1) Band 5G7/1 light greenish gray.
(2) Band 5RP7/2 pale gray red purple (pyritic).
(3) Mainly firm with thin (<1cm) softer homogeneous layers.

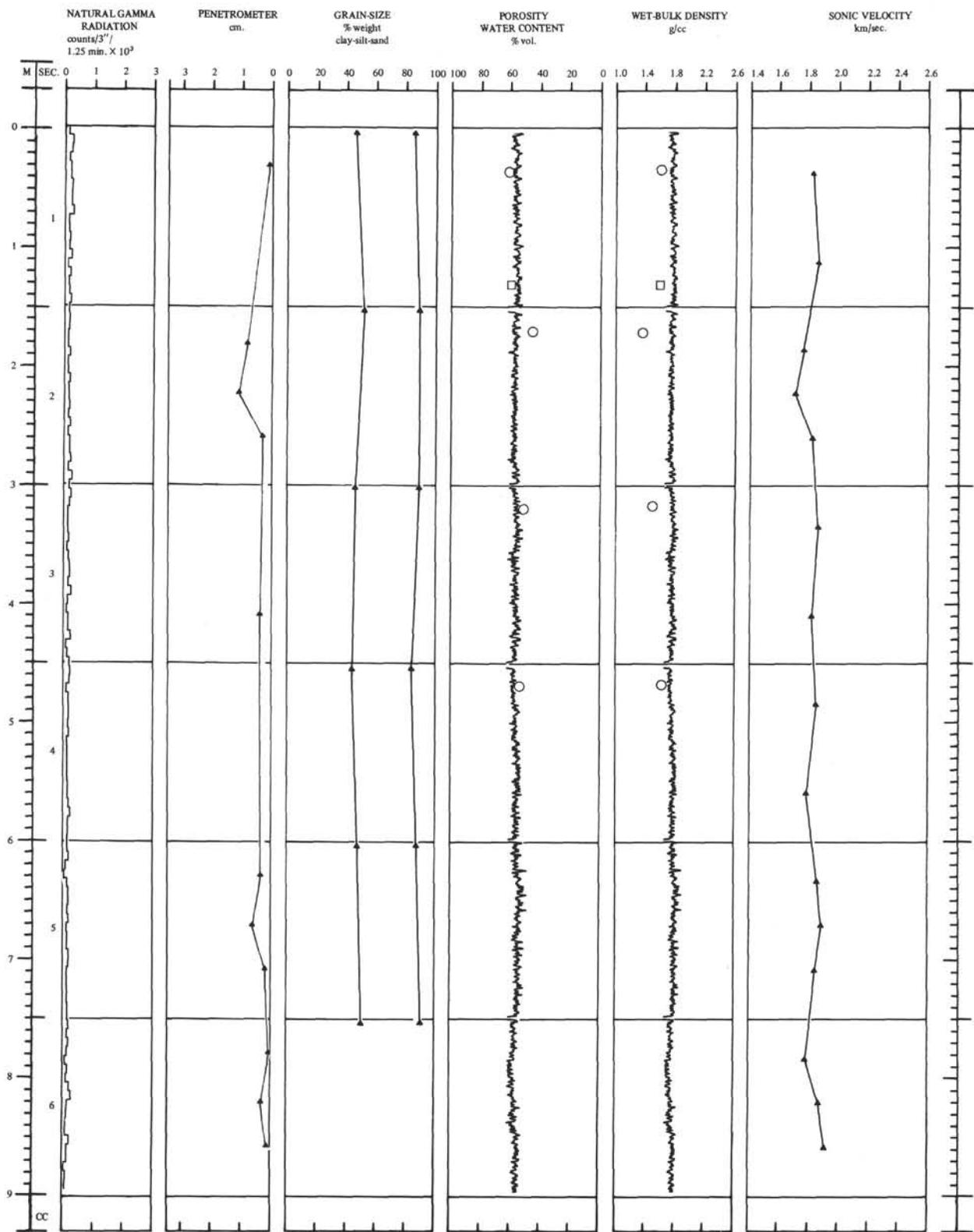
← 3

Hole 62.0 Core 2 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				
<p>NANNOFOSSIL CHALK OOZE</p> <p>0-2cm: Void</p> <p>→ 1</p> <p>→ 2</p> <p>Hard lumps of moderately mottled and indistinctly bedded nannofossil chalk ooze (SGY8/1) light greenish gray with N2-4mm mottles of grayish to purplish blue (5P-PB 5/2) in homogeneous very light gray (N8) matrix of nannofossil chalk ooze. Perhaps all in one piece below ~70cm, except for sheath on sides.</p> <p>Some greener bands or beds (~5G8/1) at 79, 96, and 125cm.</p> <p>NOTE: Plastic liner was cut 154 cm. long.</p> <p>(1) Lumps (2) Matrix</p>				

Hole 62.0 Core 2 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				
<p>NANNOFOSSIL CHALK OOZE</p> <p>1</p> <p>N-8 very light gray throughout - moderate mottling:</p> <ul style="list-style-type: none"> (1) Mostly slightly darker and lighter N8. (2) Minor - N8 (3) Very minor - 5Y 6/1 light olive gray. (4) Few N3 spots <p>Alternating firm and soft layers 1-25cm.</p> <p>Bedding indistinct, probably horizontal.</p> <p>→ 2</p> <p>(1) Lined portions are firm; unlined soft.</p> <p>(2) Bubble in core collapsed downward on cutting.</p>				



Lithology and biostratigraphy of Core 3, Hole 62.0.

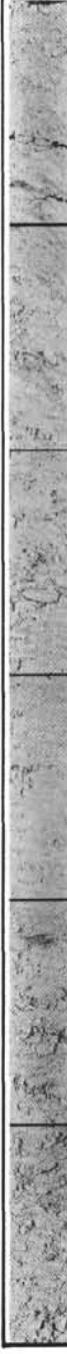


Physical properties of Core 3, Hole 62.0.

Hole 62.0 Core 3 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				NANNOFOSSIL CHALK OOZE
25				Very firm to semi-indurated pale bluish gray 5B8/1 nannofossil chalk ooze with 1-3cm lumps of nannofossil chalk. No visible structure except below. Rare soft ~1cm. bands (probably drilling artifact).
50				
75				
100		}} }	→ 1	(1) Pyritic zone - dark grayish blue 5PB 4/2 mottled with above
125				
150				

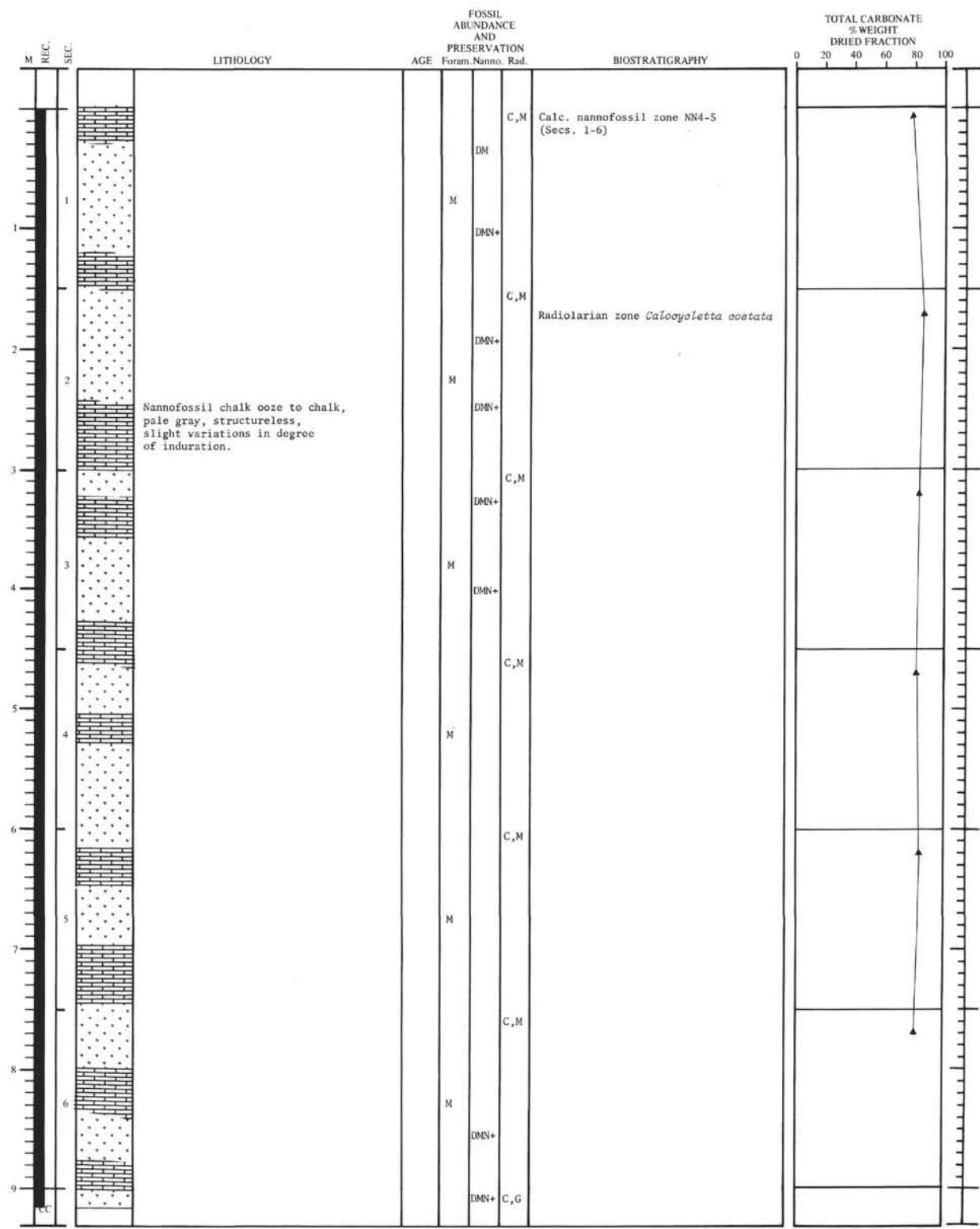
Hole 62.0 Core 3 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				NANNOFOSSIL CHALK OOZE
25				Pale bluish gray 5B8/1 firm to very firm (probably partly recrystallized) nannofossil chalk ooze.
50				Rare 1cm softer bands probably drilling artifact.
75				
100				→ 1
125			*	(1) Extremely rare pyritic spots (~1mm) bluish black 5B2/1.
150				

Hole 62.0 Core 3 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				
Thin section.				

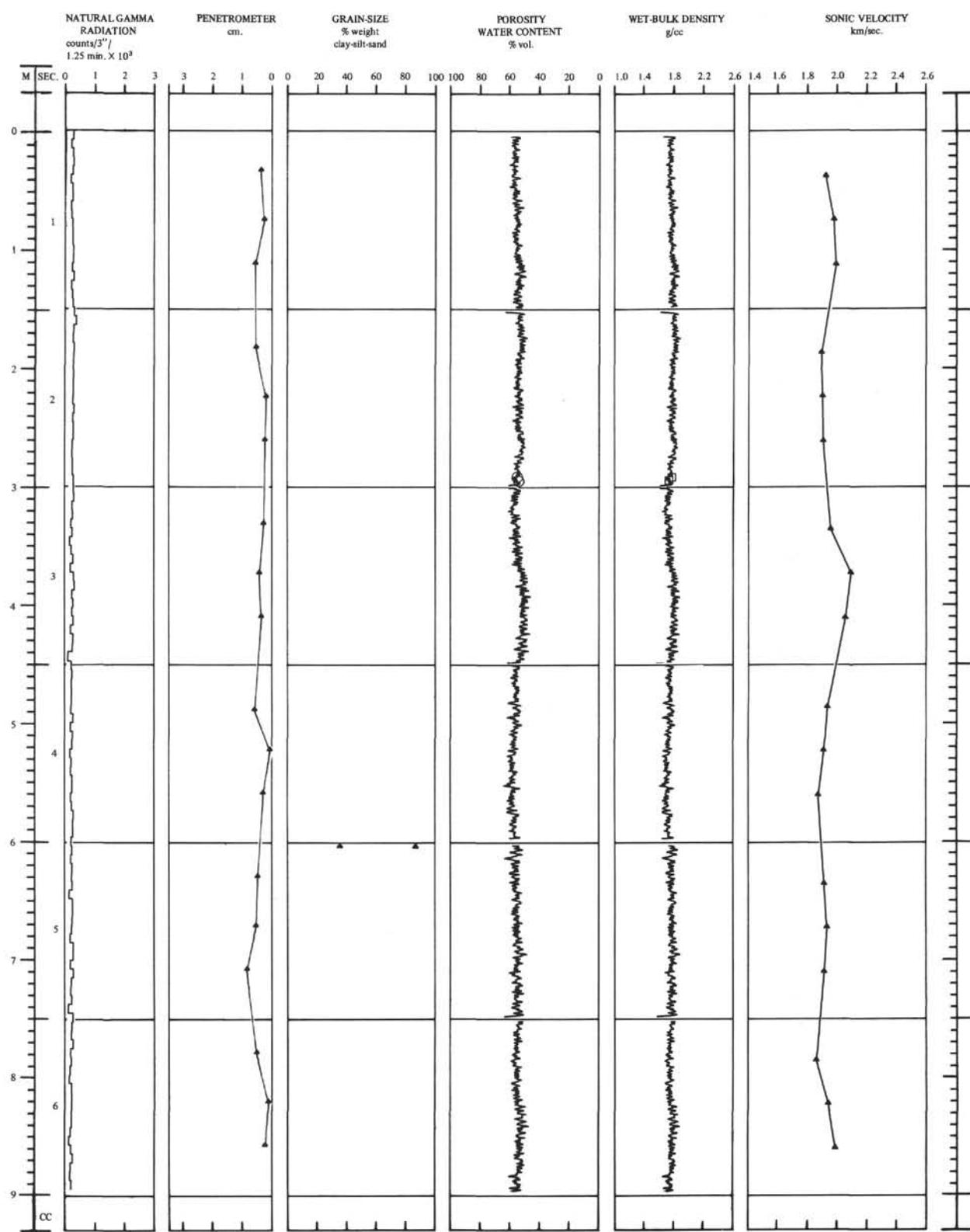
Hole 62.0 Core 3 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25		0	{}	
50				
75				
100				
125				
150				

Hole 62.0 Core 3 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
			Description	
0				
25			<u>NANNOFOSSIL CHALK Ooze</u>	
			Uniform hard pale bluish gray (5B8/1) nannofossil chalk.	
			Some variation in lithification (possibly due to drilling). Harder portions somewhat fractured.	
			No visible structures.	
50			Cut with coping saw.	
75				
100				
125				
150				

Hole 62.0 Core 3 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
			Description	
0				
25			Lithology identical to section above. (62-0-3-5).	
			Cut with coping saw.	
50				
75				
100				
125				
150				



Lithology and biostratigraphy of Core 4, Hole 62.0.



Physical properties of Core 4, Hole 62.0.

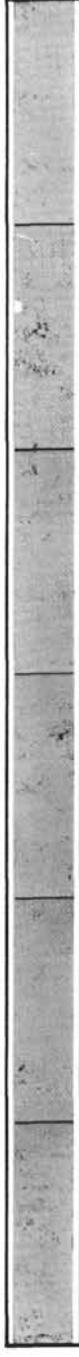
Hole 62.0 Core 4 Section 1					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0		-	-	-	NANNOFOSSIL CHALK OOZE
25	-	-	-	-	Nearly uniform core; SY7.5/1 light yellow gray, slightly more indurated in places, as at 0-5, ~19, ~41, 54-55, 70-79, 109-111, 119-122, ~132, and 142-143 cm.
50	-	-	-	-	No bedding and no mottling seen.
75	-	-	-	-	Core is ~153cm long; was under pressure and extruded from liner when liner was cut into sections.
100	-	-	-	-	
125	-	-	-	-	
150	-	-	-	-	

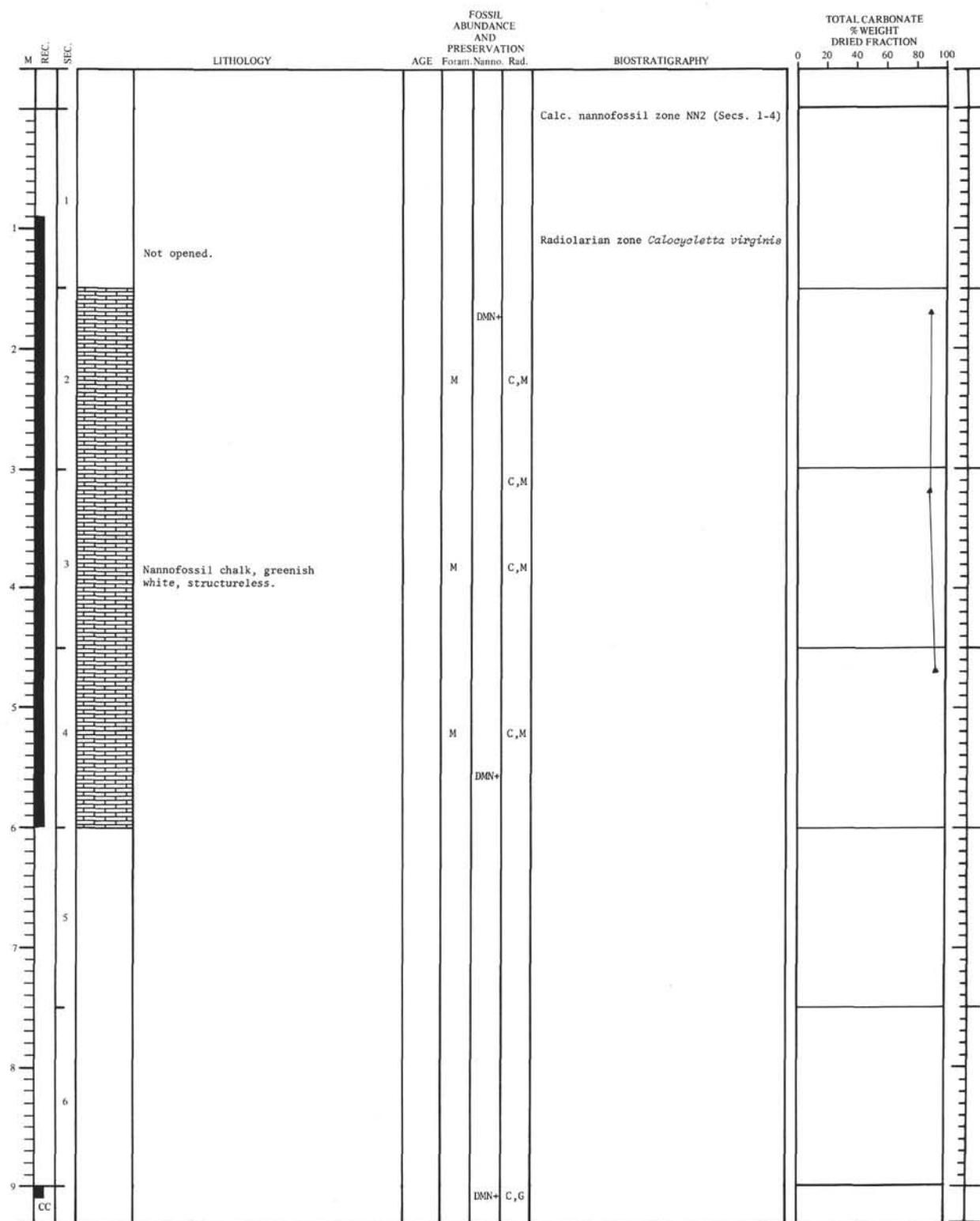
Hole 62.0 Core 4 Section 2					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0		-	-	-	NANNOFOSSIL CHALK OOZE
25	-	-	-	-	Nearly uniform core, SY7.1 (light gray). Portion at 136-143cm, and some other portions better indurated (nannofossil chalk). No bedding or mottles. Core 151cm long.
50	-	-	-	-	Slightly more indurated places shown by stipple pattern.
75	-	-	-	-	Core 151cm long.
100	-	-	-	-	
125	-	-	-	-	
150	-	-	-	-	

Hole 62.0 Core 4 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
				Deformed Areas
0				
25				NANNOFOSSIL CHALK OOZE Nearly uniform core; SY7/1 (light gray). Some portions more indurated. No bedding nor mottling seen. Slightly more indur- ated parts indicated by stippling.
50				
75				
100				
125			*	
150				

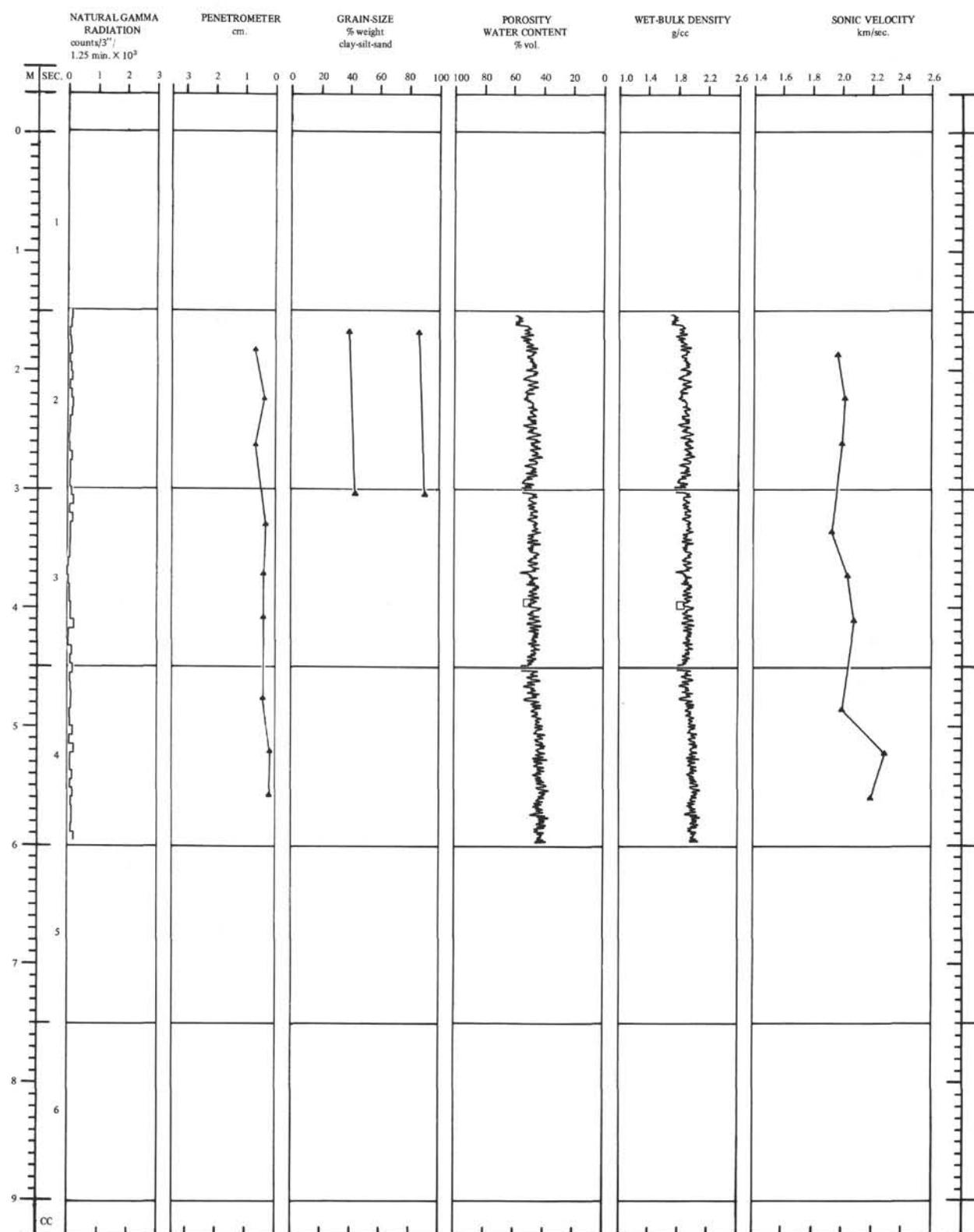
Hole 62.0 Core 4 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
				Deformed Areas
0				
25				NANNOFOSSIL CHALK OOZE to CHALK
50				
75				
100				
125				
150				

Hole 62.0 Core 4 Section 5					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					
25					NANNOFOSSIL CHALK OOZE Nearly uniform core; 5Y7/1 (light gray). Portions more indurated. No bedding and no mottling seen.
50					More indurated parts indicated by stippling
75					
100					
125					
150					

Hole 62.0 Core 4 Section 6					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					
25					
50					
75					
100					
125					
150					



Lithology and biostratigraphy of Core 5, Hole 62.0.



Physical properties of Core 5, Hole 62.0.

Hole 62.0 Core 5 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK

0-10cm:
5G5/1 greenish gray chalk ooze with chalk lumps. Almost certainly cavings (includes red mudstone from Site 61!)

10-150cm:
Very firm greenish white 5G9/1. Mostly cracked to <5cm lumps by drilling.

No structures.

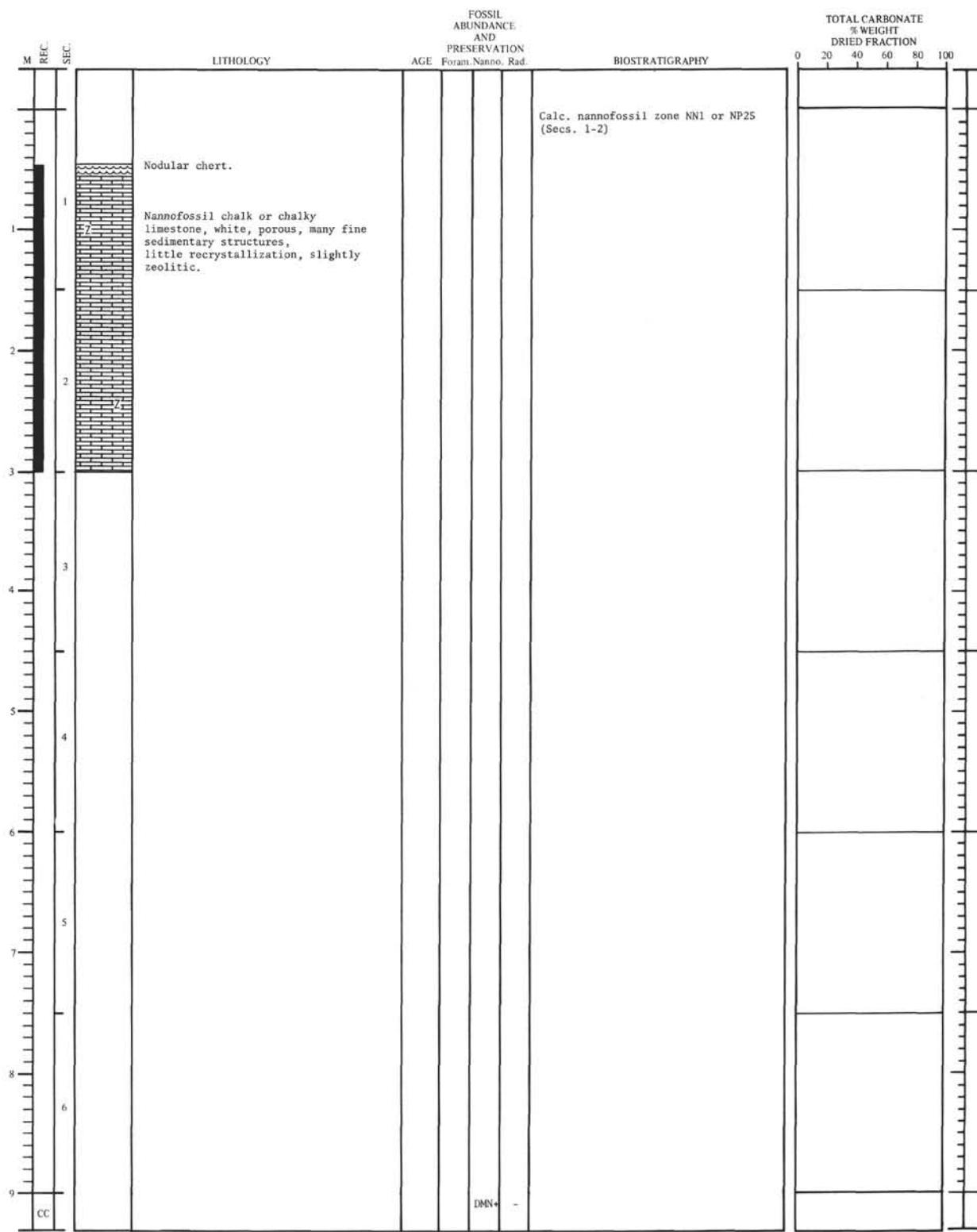
Hole 62.0 Core 5 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK

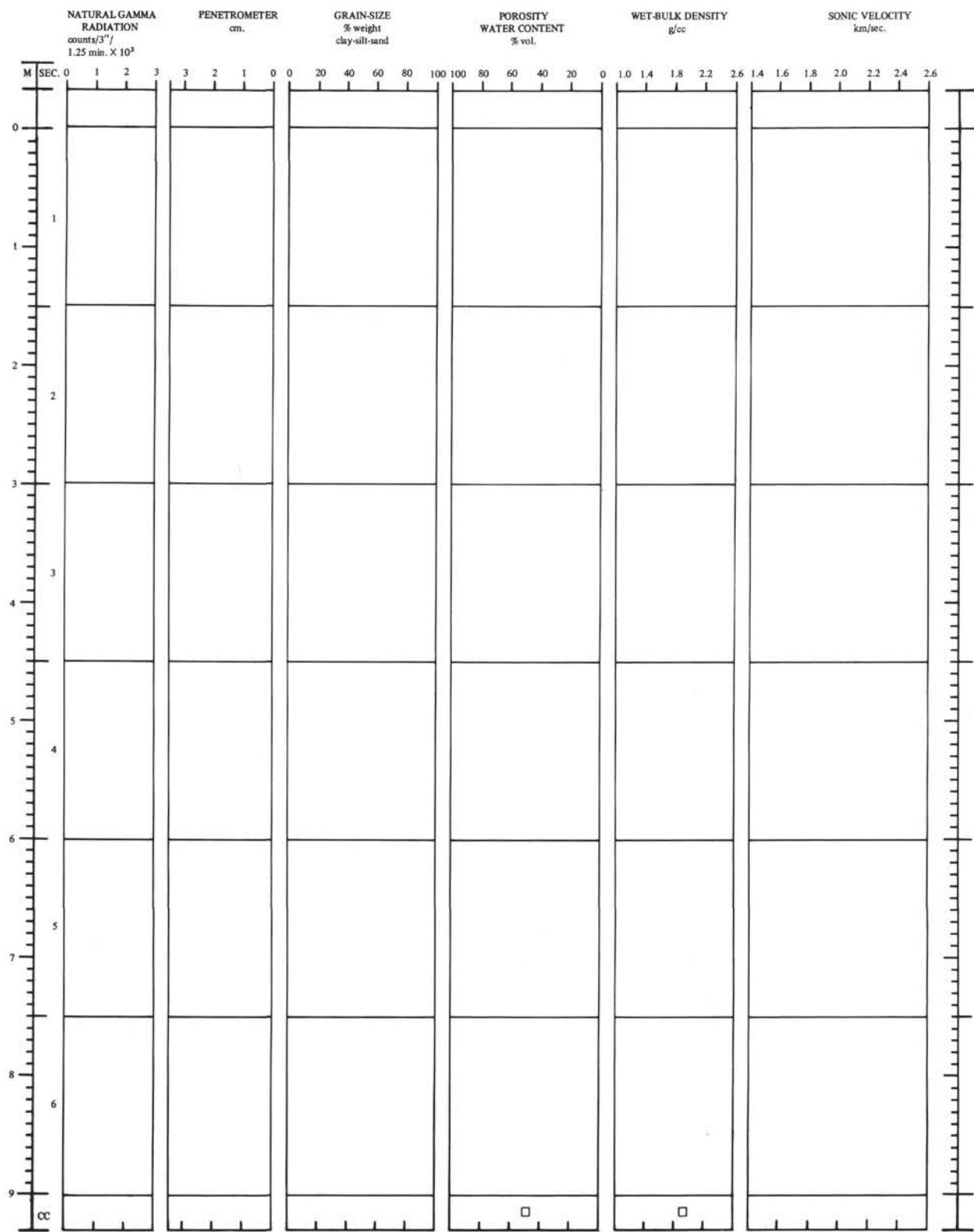
5G9/1 greenish white as 62-0-5-2.

Hole 62.0 Core 5 Section 4			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
0			
25			
50			
75			
100			
125			
150			

NANNOFOSSIL CHALK
SG9/1 greenish white
as 62-0-5-2 and
62-0-5-3.



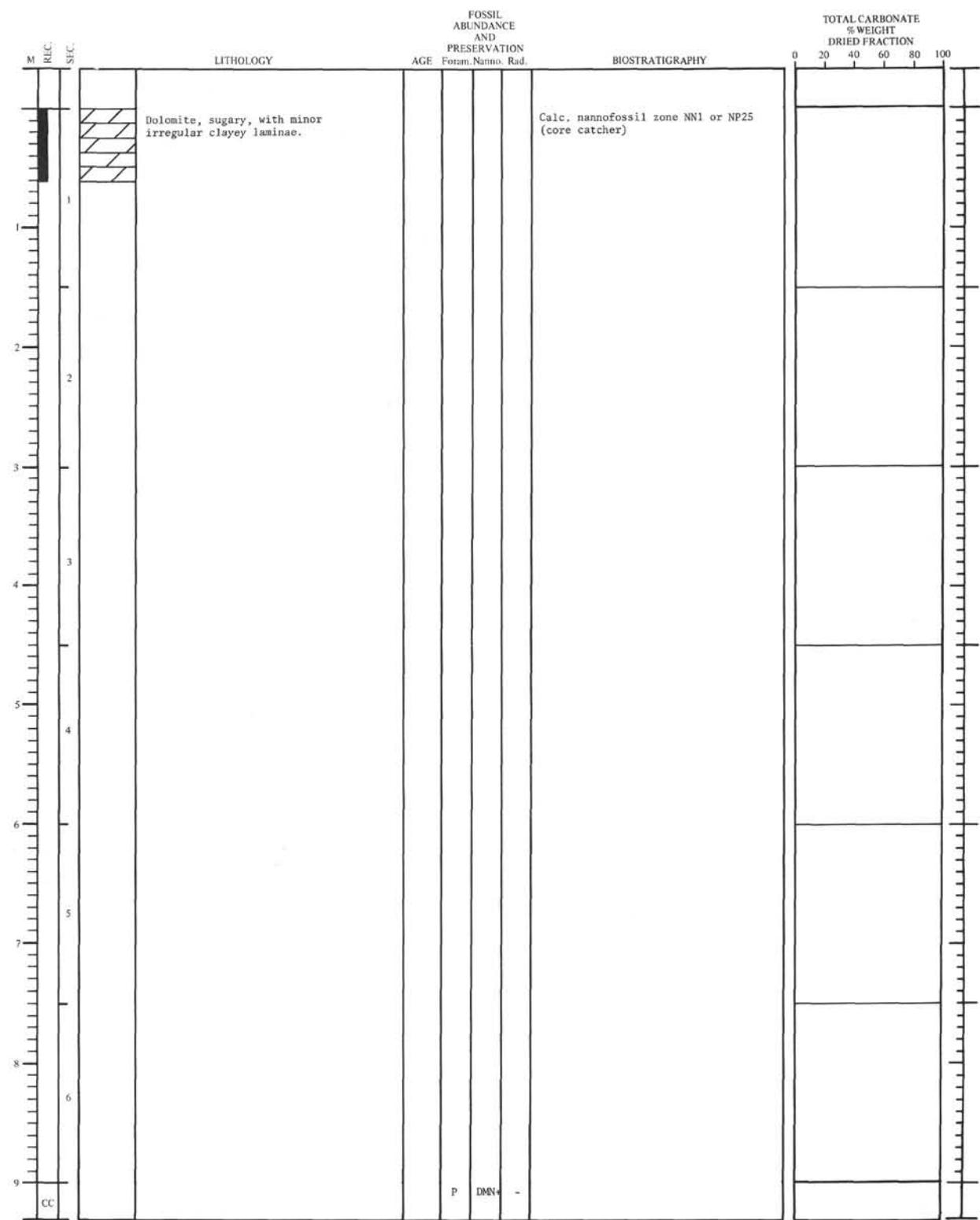
Lithology and biostratigraphy of Core 6, Hole 62.0.



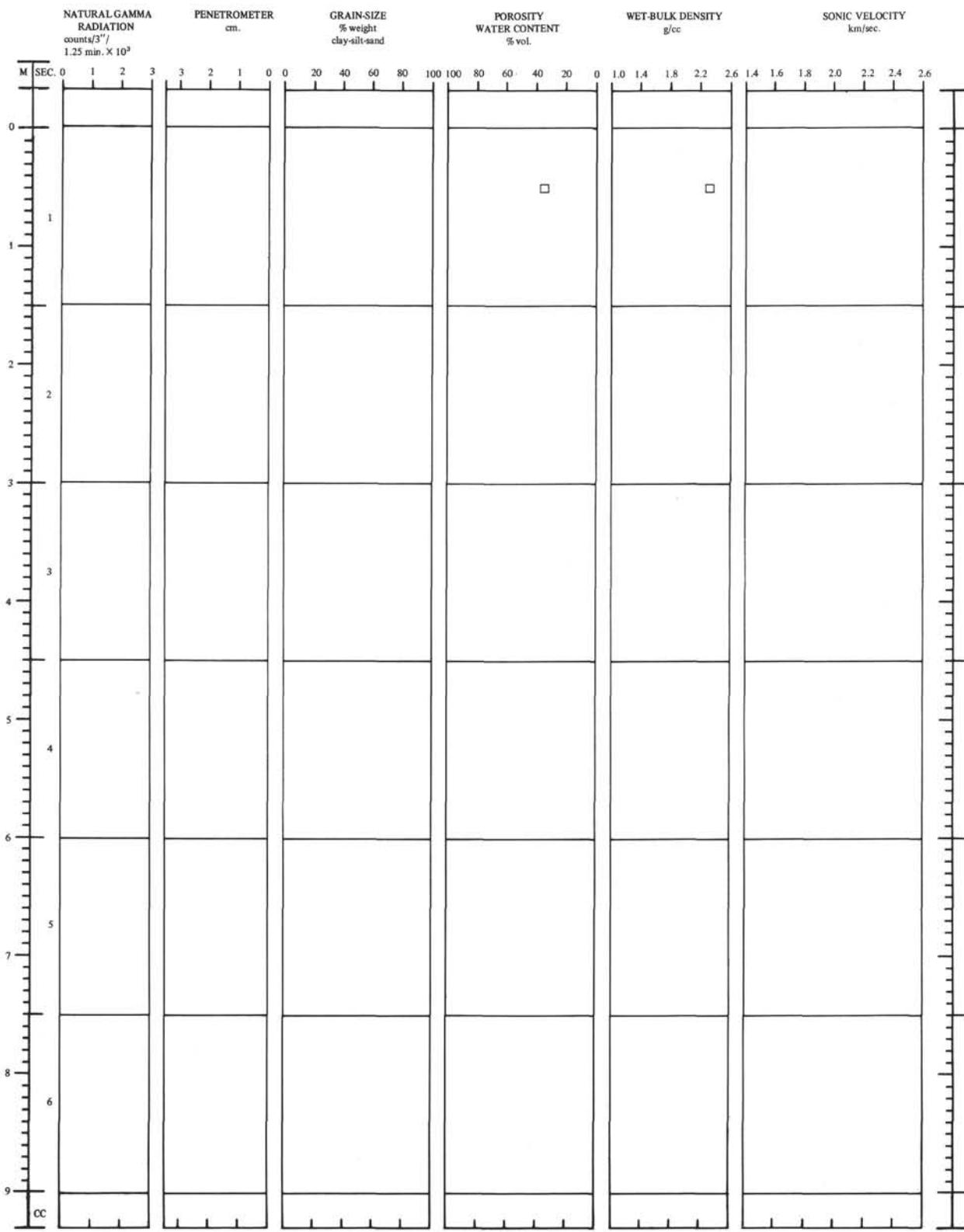
Physical properties of Core 6, Hole 62.0.

Hole 62.0 Core 6 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				<u>CHERT/NANNOFOSSIL</u> <u>CHALK or CHALKY</u> <u>LIMESTONE</u> Polished surfaces and thin section shows well developed fine sediment structures - cross beds, micro-slumps, alternation of coarse (foram-rich) and fine beds (foram-poor). → 1 Chert (still carbonate rich) and irregular limestone remnants → 2 N9 white nannofossil chalk or chalky limestone. → 2 Only very minor recrystallization. Well indurated.
25				
50				<u>0-45cm: Void</u>
75				
100		*		→ 3 Thin section → 4 Cut
125				→ 4 Cut
150				

Hole 62.0 Core 6 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				<u>0-7cm: Void</u>
25				→ 1 Sawn
50				→ 1 Sawn
75				→ 1 Sawn
100				N9 white nannofossil chalk. Very little recrystallization. Well indurated.
125				→ 1 Sawn
150				

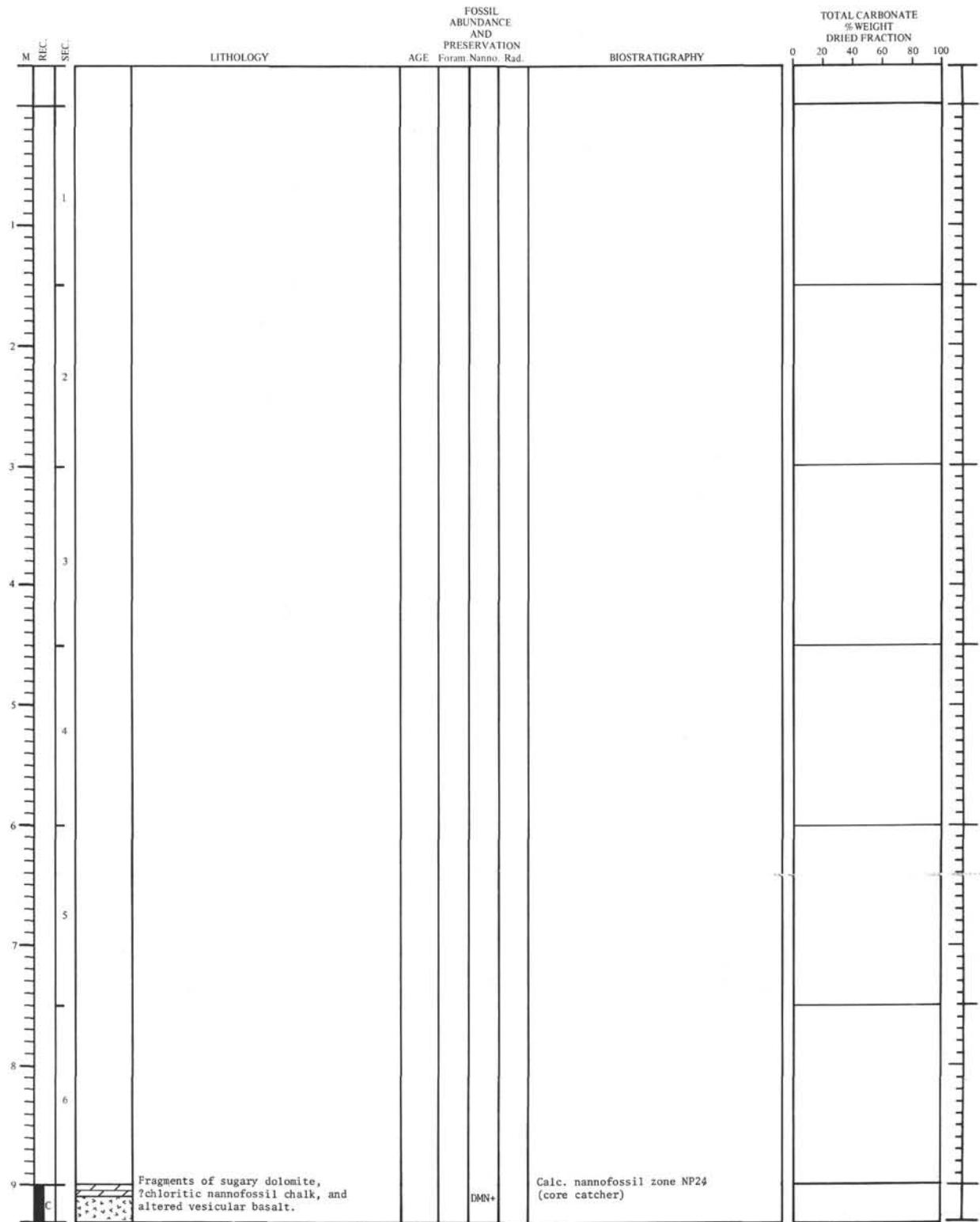


Lithology and biostratigraphy of Core 7, Hole 62.0.

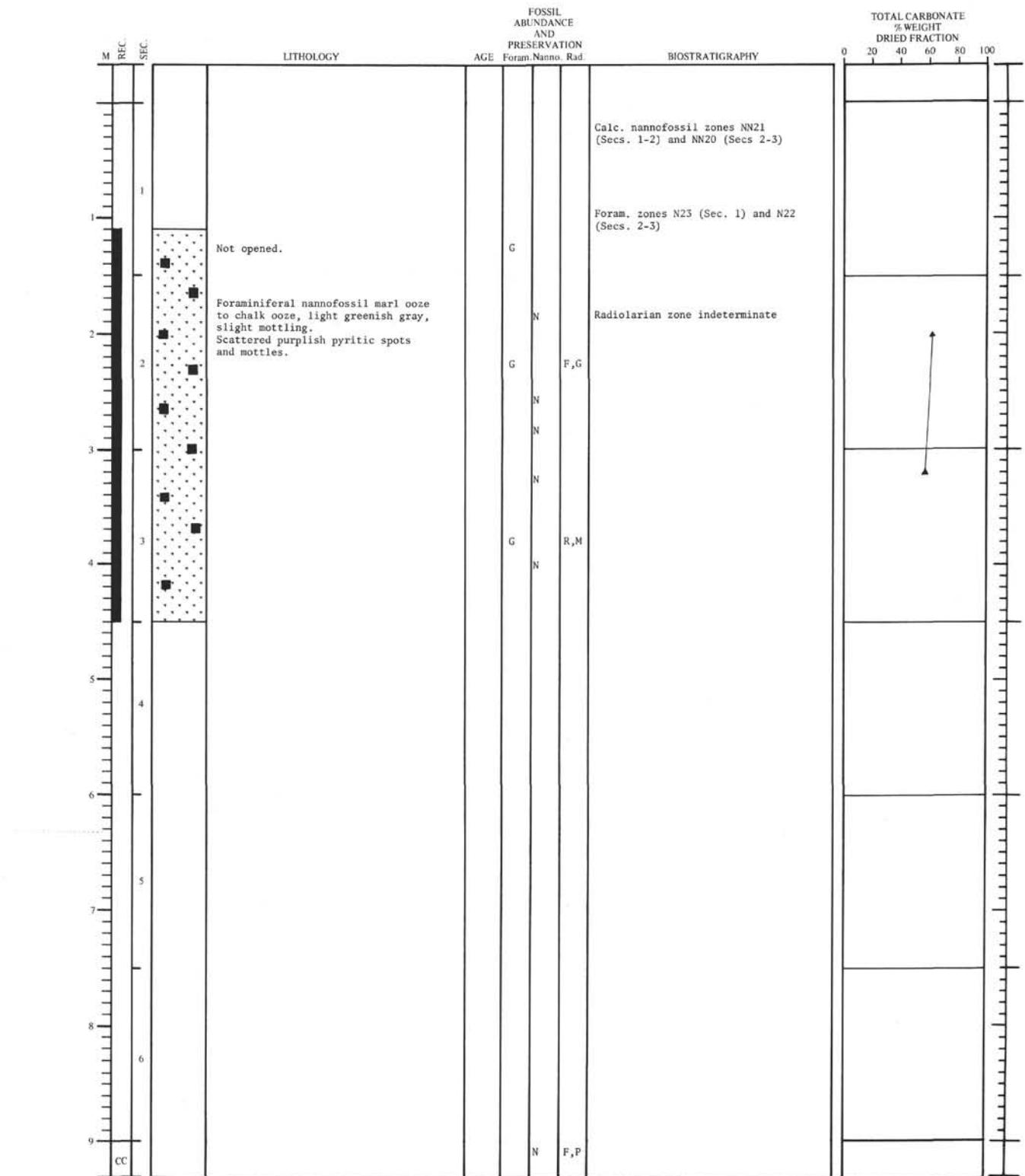


Physical properties of Core 7, Hole 62.0.

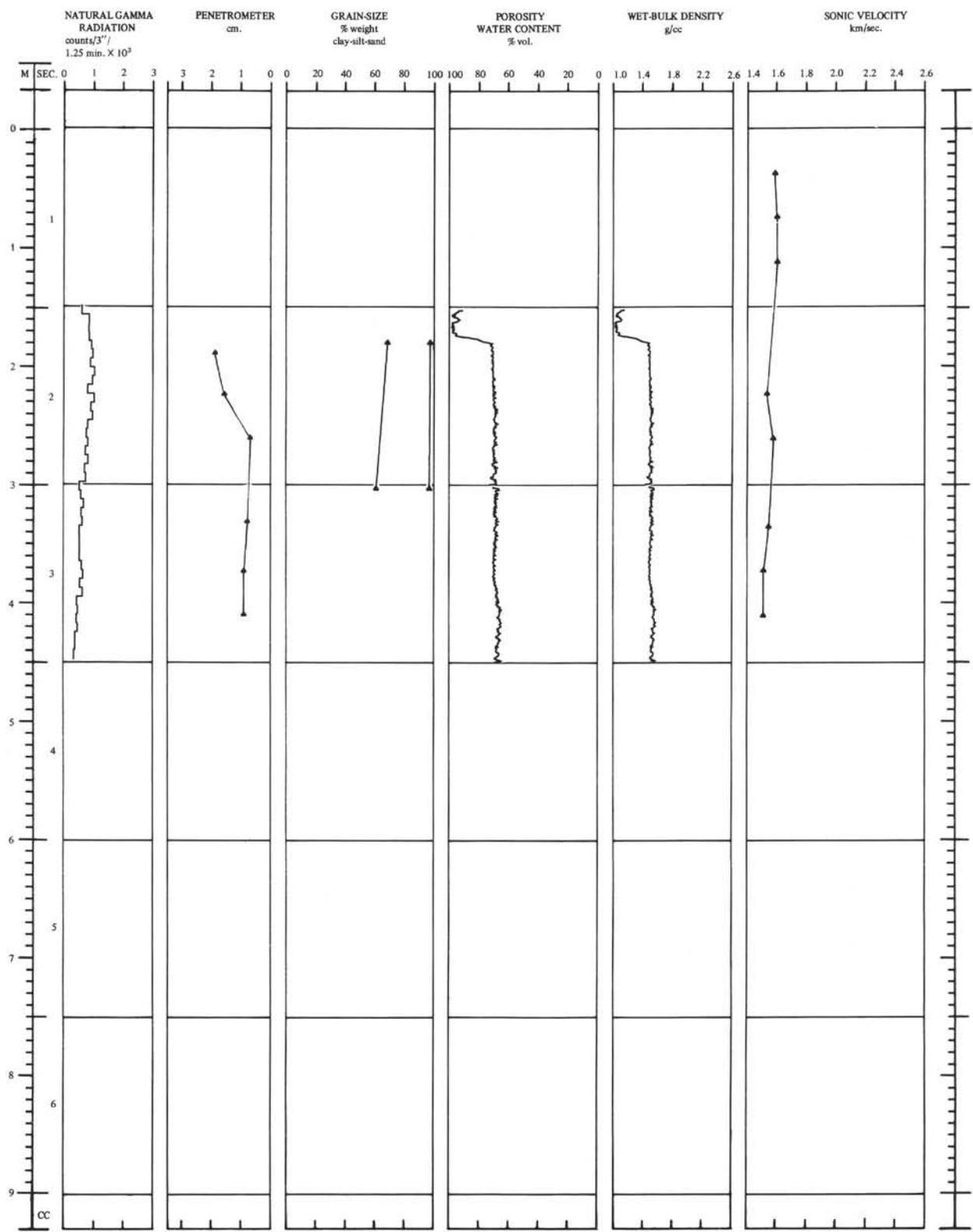
Hole 62.0 Core 7 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
0			*	<p>1 Thin section of 1.</p> <p>2 Eleven pieces, and some "sand" (dolomite rhombs and soft fragments). Oligocene nannofossils from this material), were total recovery.</p> <p>(1) A piece off upper end of 2.</p> <p>3</p> <p>4&5</p> <p>6 (2) ~1015g. piece, marked on upper end by center bit used previously. Dolomite, in euhedral rhombs ~0.2mm diameter. Rock is SYR7/1 pinkish gray, 5Y8/1 yellowish gray,</p> <p>7 and 5G6/1 greenish gray, (and nearby tints). Upper 12cm mainly pinkish, bottom 4cm yellowish and greenish (green</p> <p>8 commonly in veinlets? thin lensoid beds?).</p> <p>9</p> <p>10 (3) ~370g. piece, as above, mainly yellowish, the green veinlets very distinct, often branching, about 1mm or less thick.</p> <p>11 (4&5) 2 small pieces like 3.</p> <p>(6) ~250g. piece, N9 white to yellowish, no structure.</p> <p>(7) ~390g. piece, yellowish and greenish; yellowish in lenses about 1cm thick and 5cm wide see sketch below.</p> <p>(8) ~580g. piece, mainly yellowish to white, a few greenish veins.</p> <p>(9) ~230g. piece, as 8.</p> <p>(10) ~185g. piece, as 8 and 9.</p> <p>(11) ~550g. piece, greenish in upper part, from soft disseminated green grains, not in veins. Lower part pinkish to white.</p>
25				
50				
75				
100				
125				<p>Yellowish</p> 
150				<p>Yellowish with greenish "veins".</p>



Lithology and biostratigraphy of Core 8, Hole 62.0.



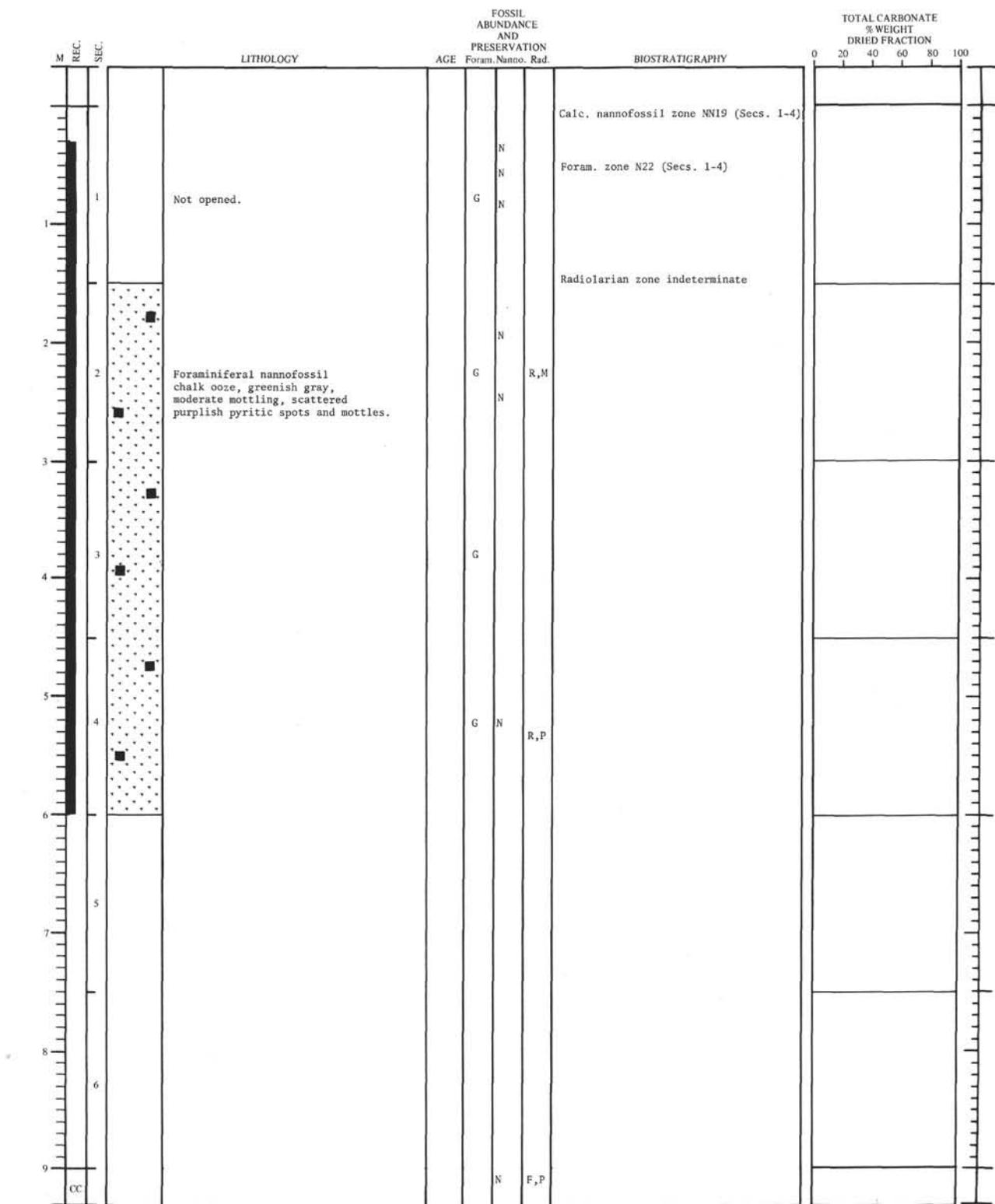
Lithology and biostratigraphy of Core 1, Hole 62.1.



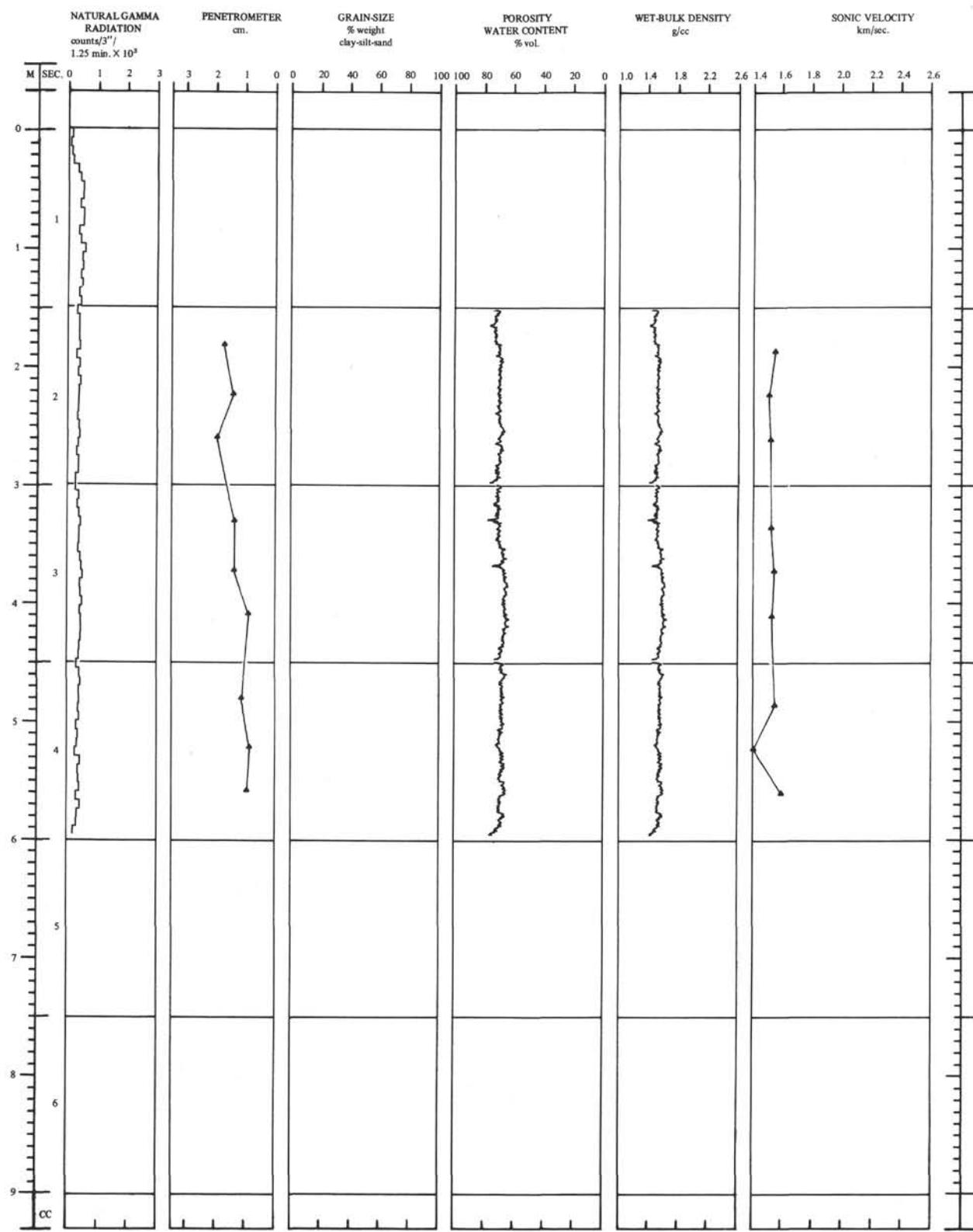
Physical properties of Core 1, Hole 62.1.

Hole 62.1 Core 1 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
0				
25			?	←1 <u>NANNOFOSSIL FORAMINIFERAL</u> <u>MARL TO CHALK OOZE</u>
50			←2 ←1 ←2 ←3	(1) Light greenish gray 5G7/1 slight indistinct mottling. (2) Scattered dusky yellow 5Y6/4 patches. (3) Indistinct zig zag boundary. (4) Light greenish gray 5G7.5/1 with indistinct bedding (? dragged) and pyritic spots and streaks of very dusky purple 5P2/2 up to 2mm wide. Slight mottling (olive gray 5Y4/1).
75			?	(5) Indistinct, fairly sharp boundary. (6) Light greenish gray 5GY7/1 with 5P2/2 and 5Y4/1 as above. (7) Indistinct, fairly sharp boundary. (8) Light greenish gray 5GY7.5/1 with dusky blue 5PB3/2 1-5mm streaks and patches (pyritic).
100			←4 ←5 ←6 ←7 ←8	(9) Indistinct gradational boundary. (10) Greenish gray 5GY5/1, fairly uniform (faint layering). (11) Sharp boundary (13) Greenish gray 5GY5.5/1, slight faint mottling. (12) 5GY7.5/1 light greenish gray, fairly uniform.
125			←9 ←10 ←11 ←12 ←13	
150			←12	

Hole 62.1 Core 1 Section 3			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			<u>FORAMINIFERAL NANNO-</u> <u>FOSSIL CHALK OOZE</u>
25			Core overall light green gray 5G7/1, with some purplish black 5P2/1 pyritic streaks marked with solid dots at left. Slightly mottled; most distinct are pale olive 10Y6/2 at ~20-25cm, ~78cm, and small ones between 90 and 100cm.
50			1 Indistinct bedding; pale olive tints.
75			→ 2 Grayish blues and grayish purples, indistinct bedding.
100			→ 3 Layer of grayish → 2 green ~10G7/2, slightly more indurated, sharp upper contact, several lower contact, perhaps from cutting core.
125			→ 4 Sharp contact.
150			→ 5 10GY7/1 to N7 (light gray), to bottom; contorted from sleeve at edges.



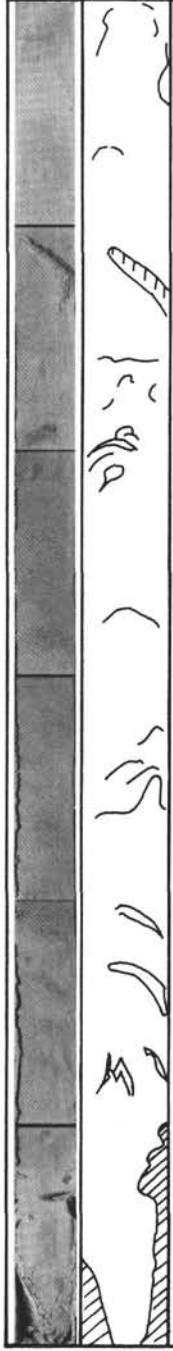
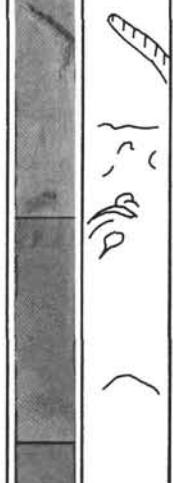
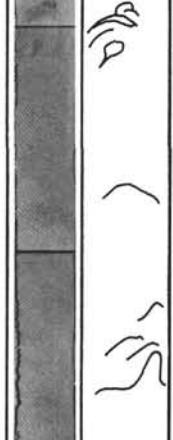
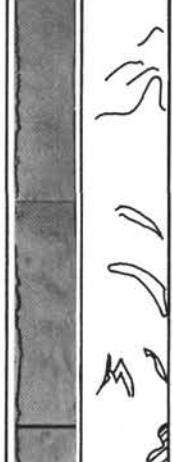
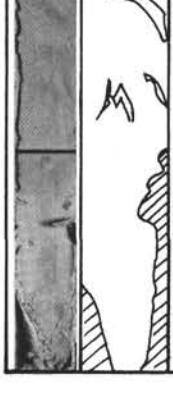
Lithology and biostratigraphy of Core 2, Hole 62.1.

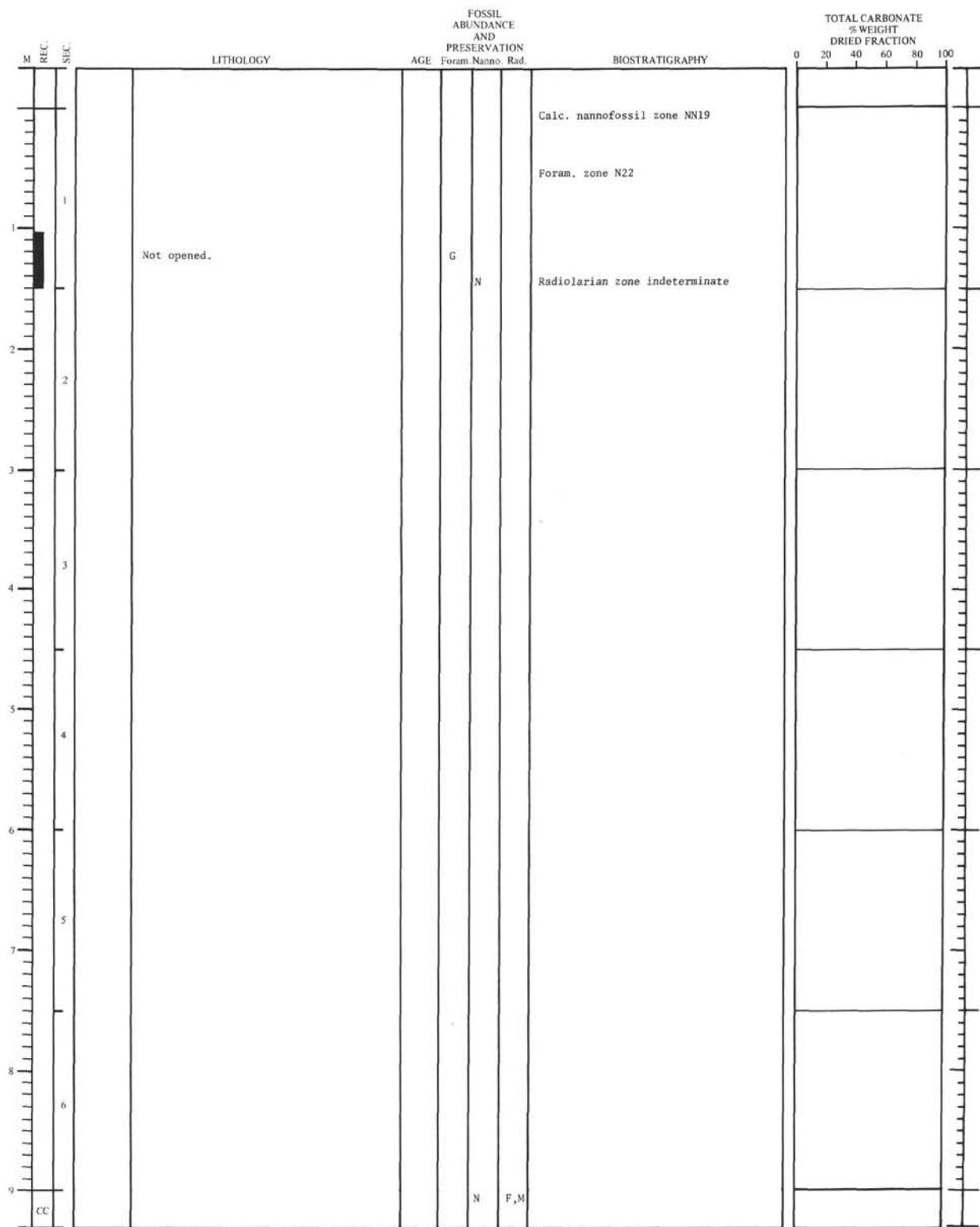


Physical properties of Core 2, Hole 62.1.

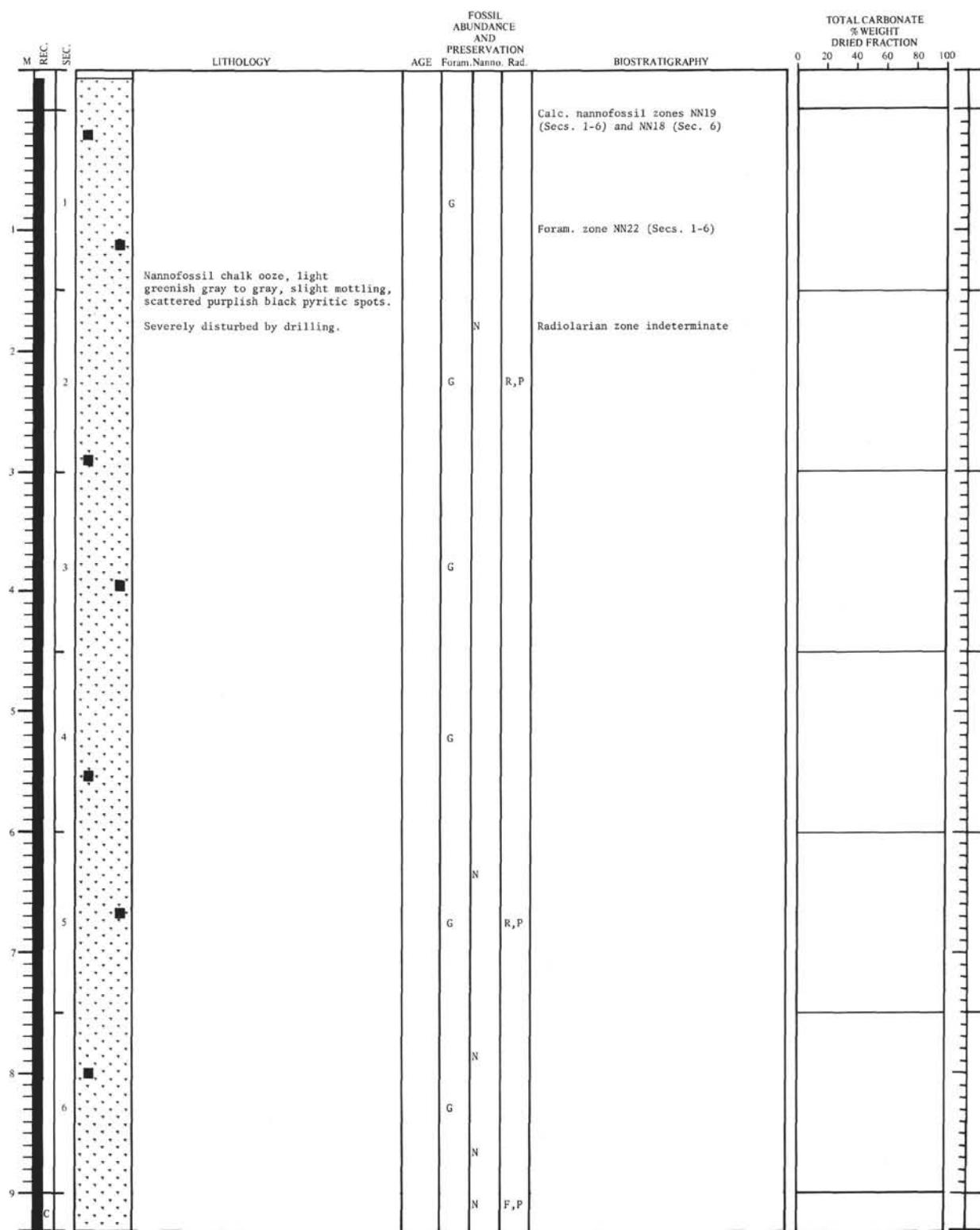
Hole 62.1 Core 2 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0			*	<u>FORAMINIFERAL NANNOFOSSIL CHALK OOZE</u>
25			→ 1	→ 1 Larger dusky - olive mottles.
50			→ 2	Core overall 5G7/1 light greenish gray, with moderately - well developed mottles (or at in sketch) that are mainly dusky olive 10Y6/4.
75			→ 2	→ 2 Pyritic streaks that → 2 are mainly purplish black SP2/1.
100			→ 3	→ 3 Pale olive 10Y6/2 bedding? mottles?, contorted.
125				
150				

Hole 62.1 Core 2 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				<u>NANNOFOSSIL CHALK OOZE</u> to <u>MARL OOZE</u>
25			→ 1	0-25cm: 5G6/1 greenish gray.
50			→ 2	→ 1 Grad. boundary → 2 Very watery
75			?	25-48cm: 5GY4/1 dark greenish gray.
100			?	→ 1 Grad. boundary
125			?	48-97cm: 5G6/1 greenish gray, faint dark greenish gray 5GY4/1 layering.
150				100-107cm: As 25-48cm.

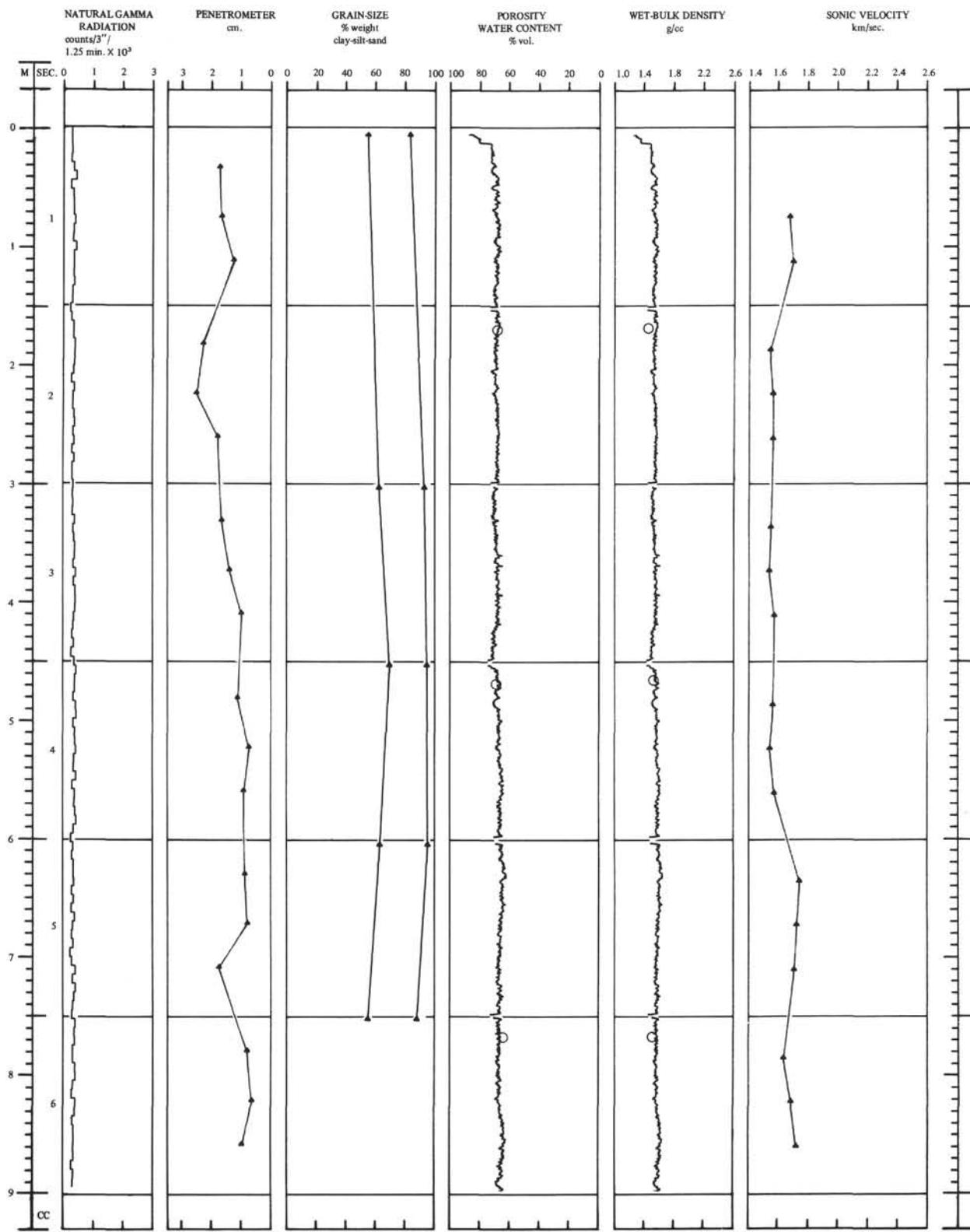
Hole 62.1 Core 2 Section 4			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
0		{)	NANNOFOSSIL CHALK OOZE or MARL OOZE
25	)	→ 1 Gouge during cutting of core.
50		()	→ 2 Indistinct contact, lighter below
75	)	Mainly 5G7/1 light greenish gray, slightly mottled, with N7 light gray to 5Y6/1 light olive gray. All mottles? or beds? convex upward, probably during coring. 5P2/1 dusky purple (and paler) layers (pyritic?) at ~50cm.
100	)	→ 3 Coarser? darker layers.
125	)	→ 3
150			→ 4 Deformed by plastic sleeve during cutting of core.



Lithology and biostratigraphy of Core 3, Hole 62.1.



Lithology and biostratigraphy of Core 4, Hole 62.I.



Physical properties of Core 4, Hole 62.1.

Hole 62.1 Core 4 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

1 Very soft
FORAMINIFERAL NANNO-
FOSSIL CHALK OOZE

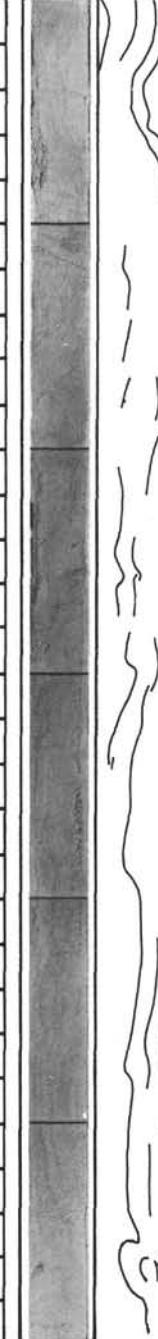
 Mainly light greenish gray 5GY8/1 to very light gray N8; all deformed by drilling, so that mottles (and beds ??) are convoluted. Mottles are slight, greenish gray 5G6/1 to grayish yellow green 5GY7/2 to pale olive 10Y6/2. Specks of purplish black (5P2/1) pyritic areas are smeared out to light purple tints. Very light gray (N8) mud at 75-78cm probably drilling mud.

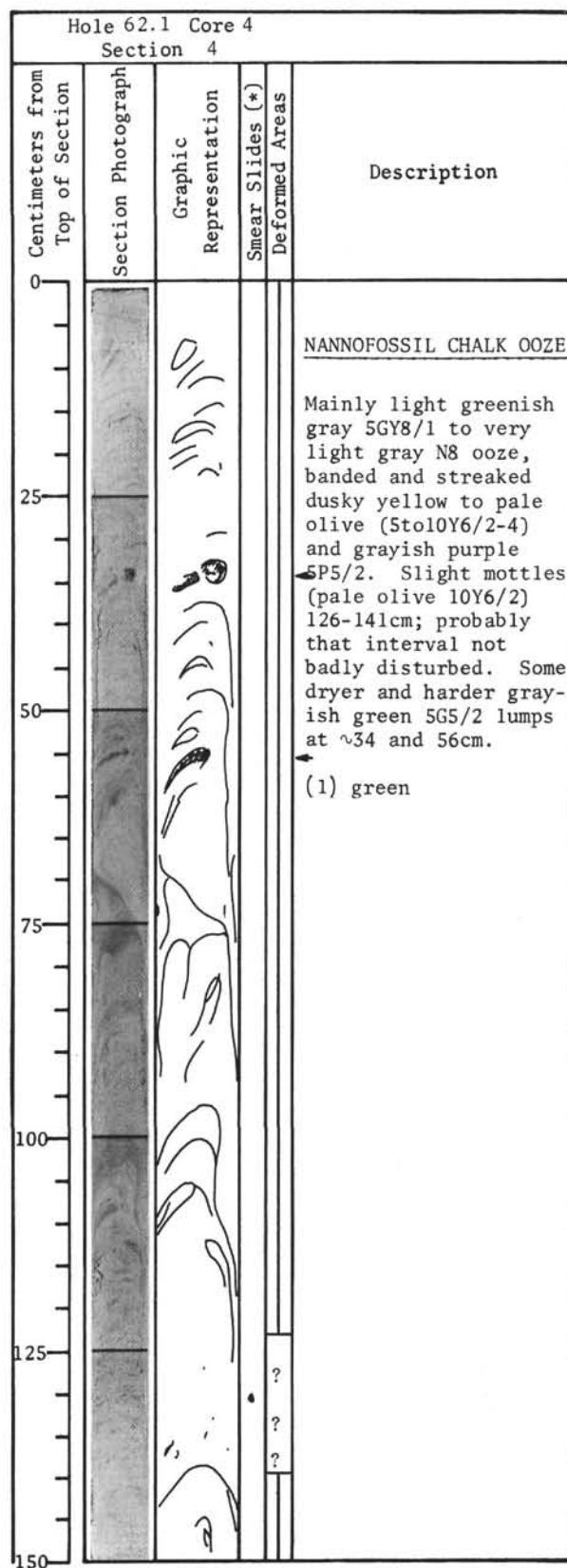
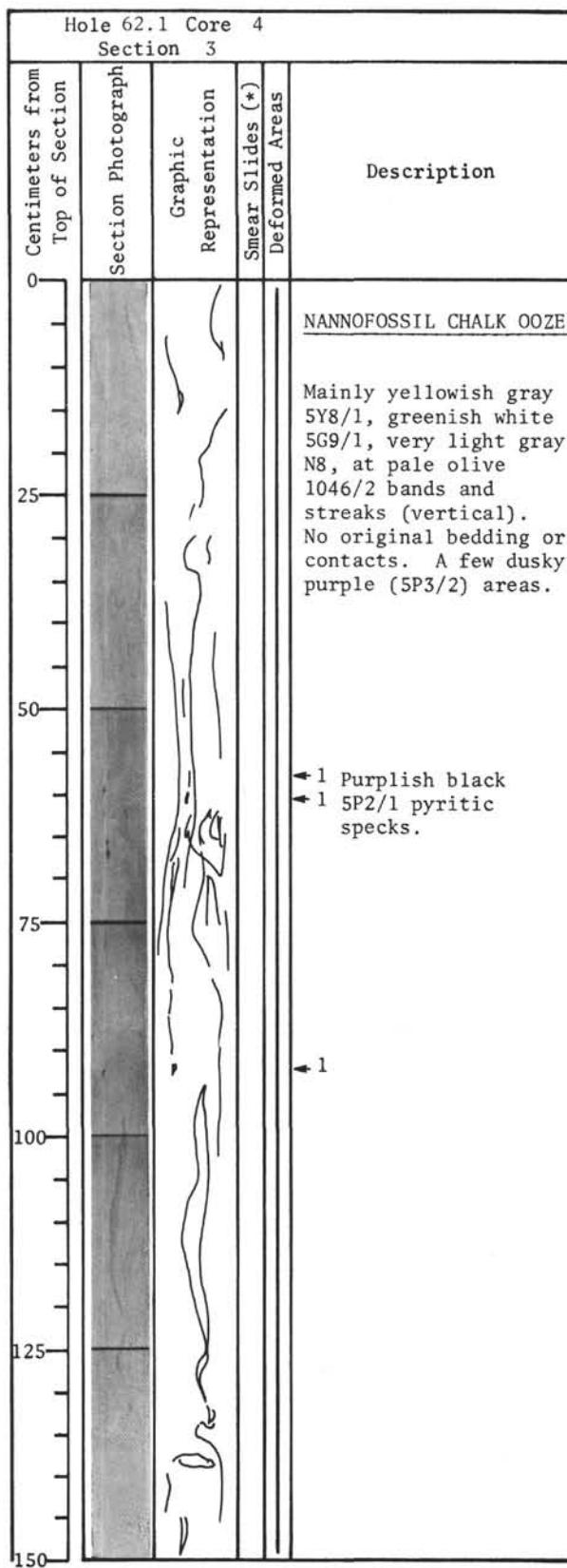



Hole 62.1 Core 4 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100			*	
125				
150				

FORAMINIFERAL NANNO-
FOSSIL CHALK OOZE

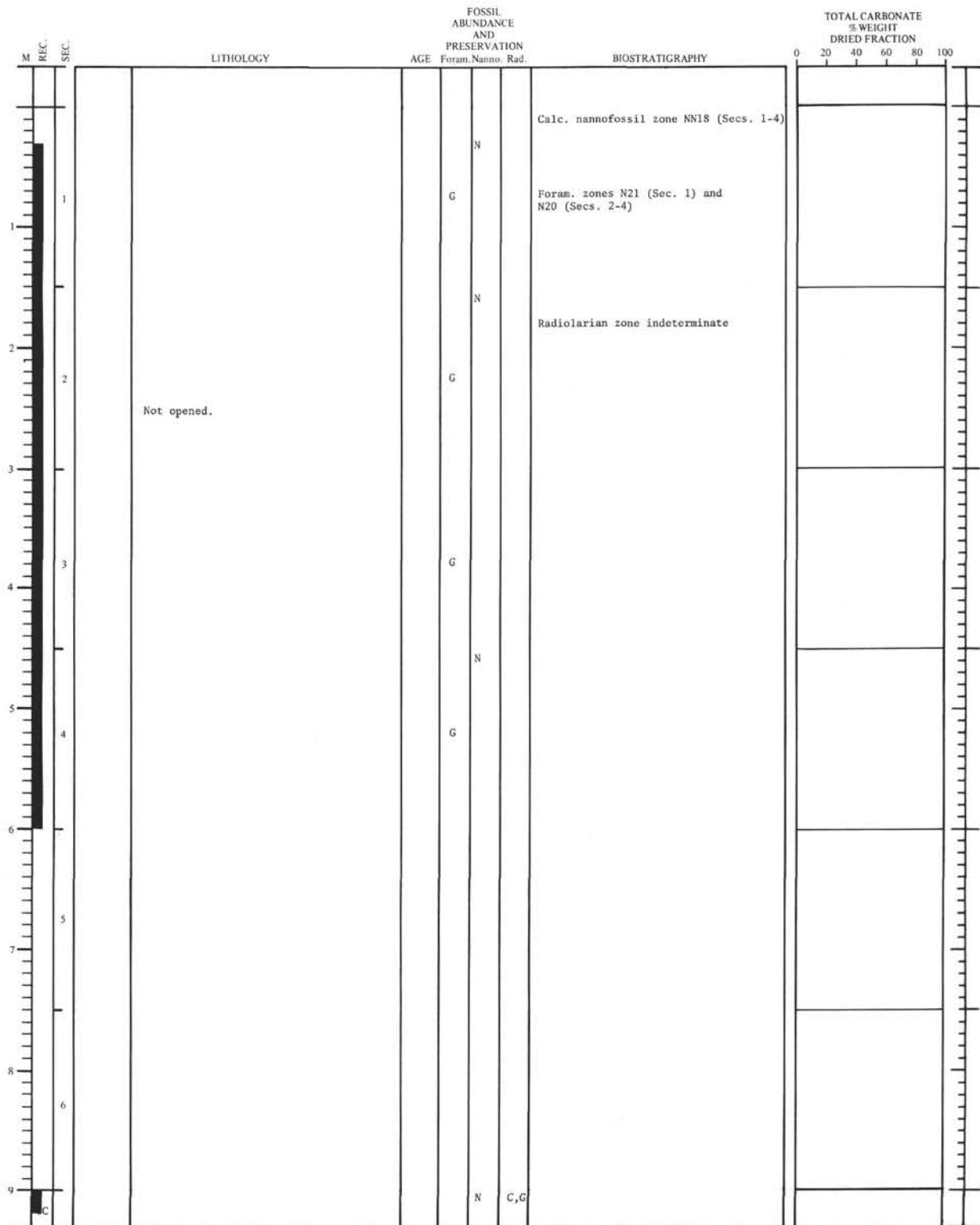
 Probably all disturbed near-vertical, slightly contorted streaks of mainly light greenish gray 5G7/1, light gray N7, some light olive gray 5Y6/1.



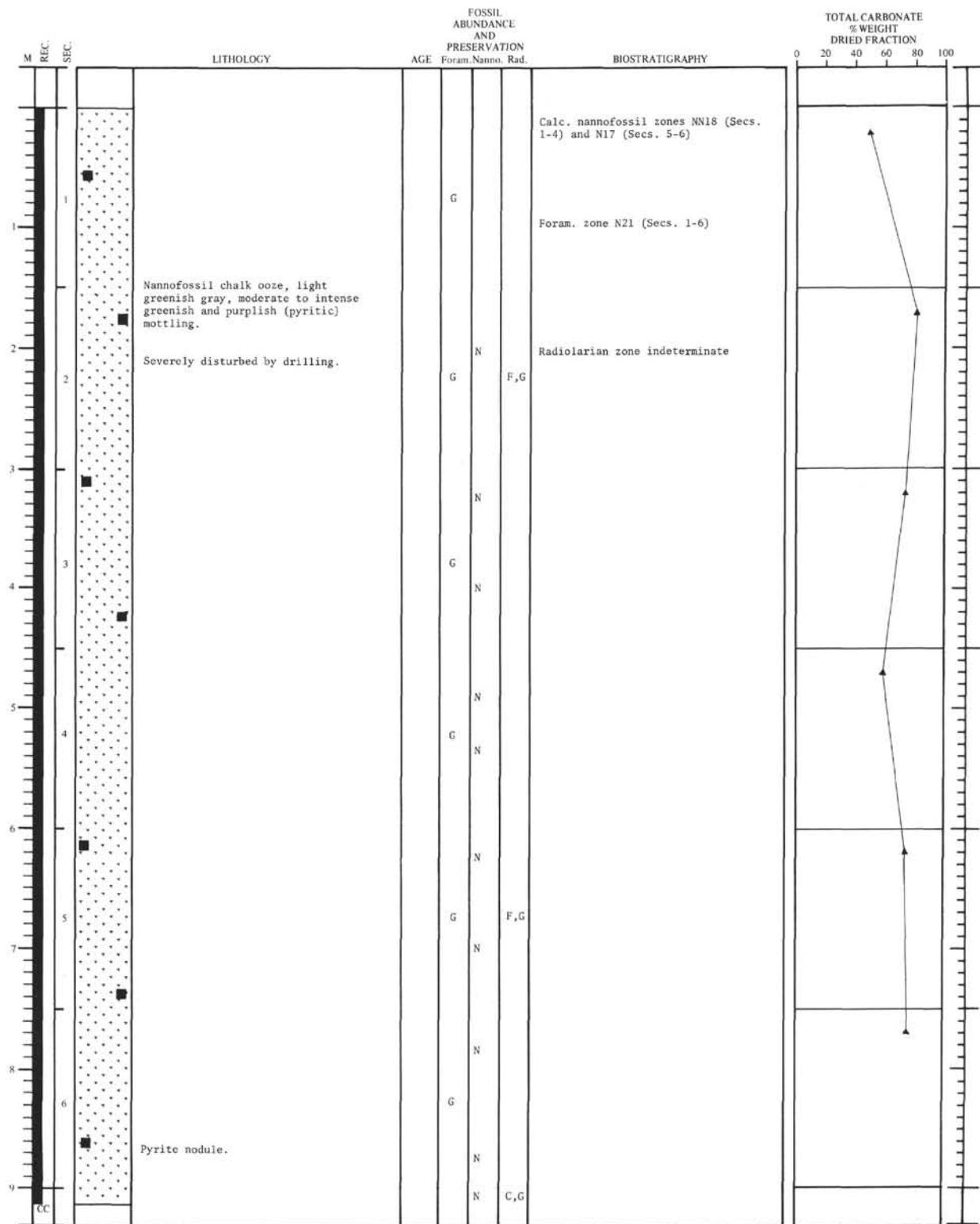
Hole 62.1 Core 4 Section 5			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			FORAMINIFERAL NANNO- FOSSIL CHALK OOZE
50			Nearly all light greenish gray 5G7/1 to light gray N7. Darker between 15 and 20cm, near 35cm, and 56cm. Slight mottles and streaks of bluish to purplish gray (~5B6/1) and dusky yellow (5Y5/4).
75			→ 1 Lighter areas ~N8.
100			→ 1
125			→ 1
150			

Hole 62.1 Core 4 Section 6			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			NANNOFOSSIL CHALK OOZE
50			→ 1 Mottles
75			Mainly light olive gray (5Y7/1), with slight, indistinct mottles of yellowish gray (5Y7/2) and light gray (N8), and specks and streaks of (pyritic) purplish black (5P2/1) that are smeared (by cutting core) to lighter tints. Core disturbed by coring.
100			
125			→ 1 Mottles
150			→ 2 Disturbed by cutting through thin plastic sleeve.

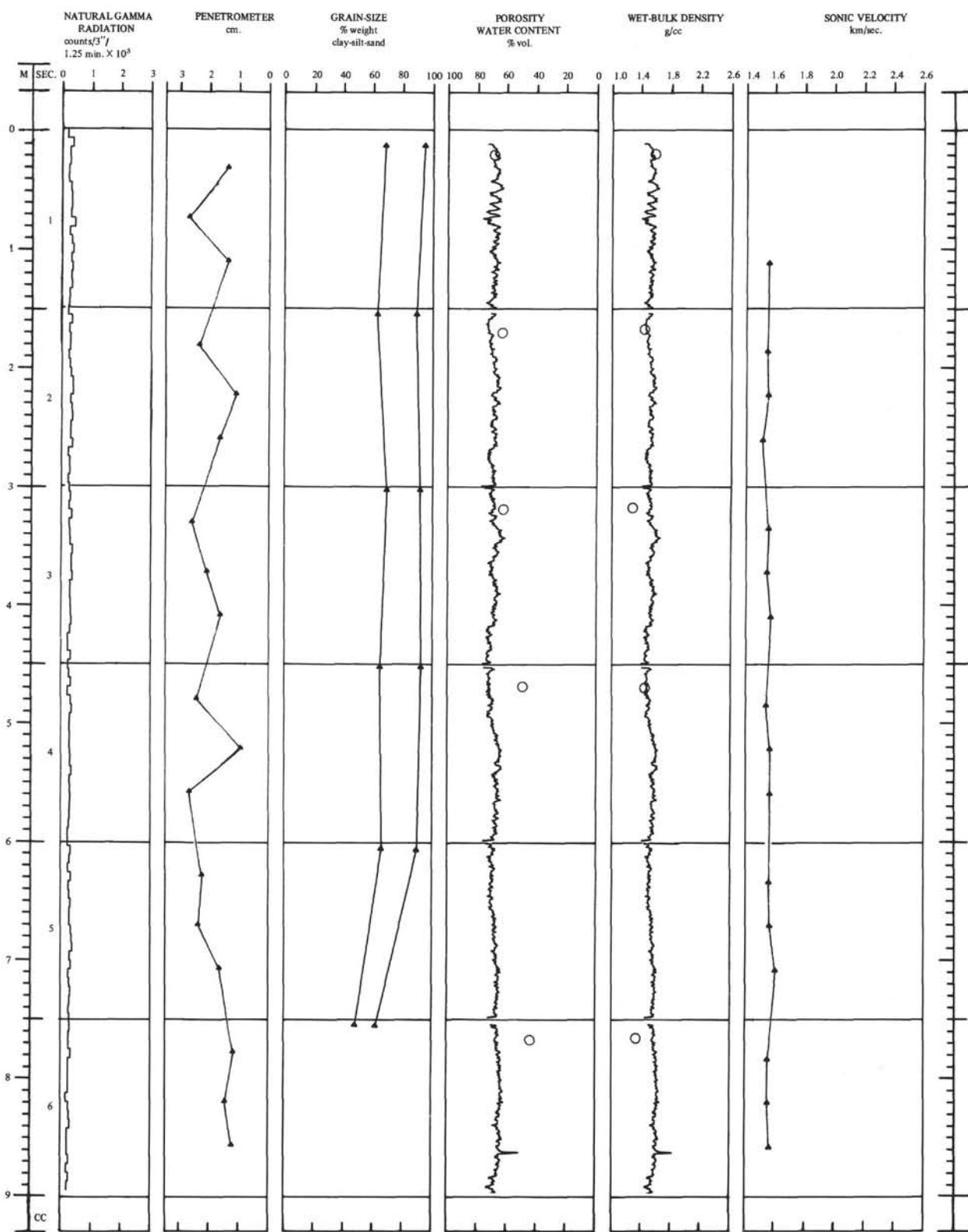


Lithology and biostratigraphy of Core 5, Hole 62.1.

Hole 62.1 Core 5 Section 4			
0 Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			NANNOFOSSIL CHALK OOZE
50			1 Pale green, beds? 1 mottles? 1 1 ?
75			2 Olive mottles
100			Pieces of mainly light greenish gray (SG8/1), mottled pale olive (5Y 6/2), and speckled purplish black (5P2/1) calcareous ooze, in a softer matrix of very light gray (~N8) mud that was homogenized by the drilling pro- cess. A few beds? mottles? of pale green (10G6/2).
125			
150			3 Purplish black specks (pyrite).

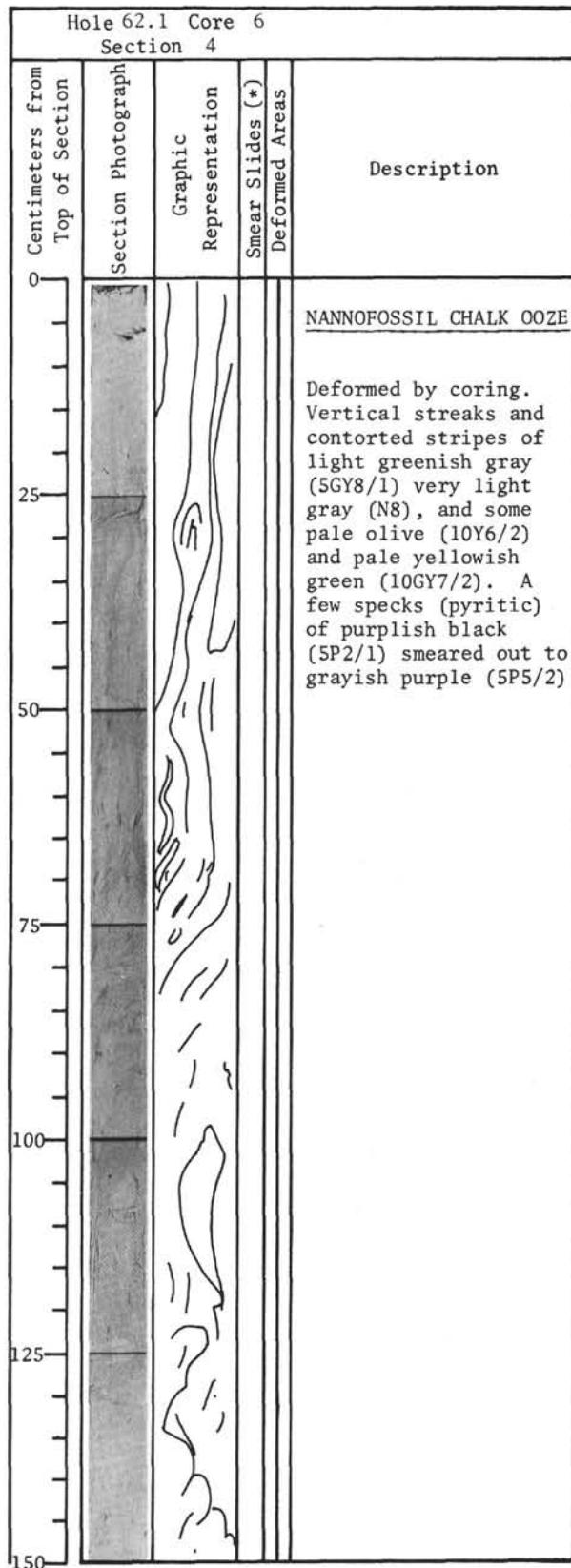
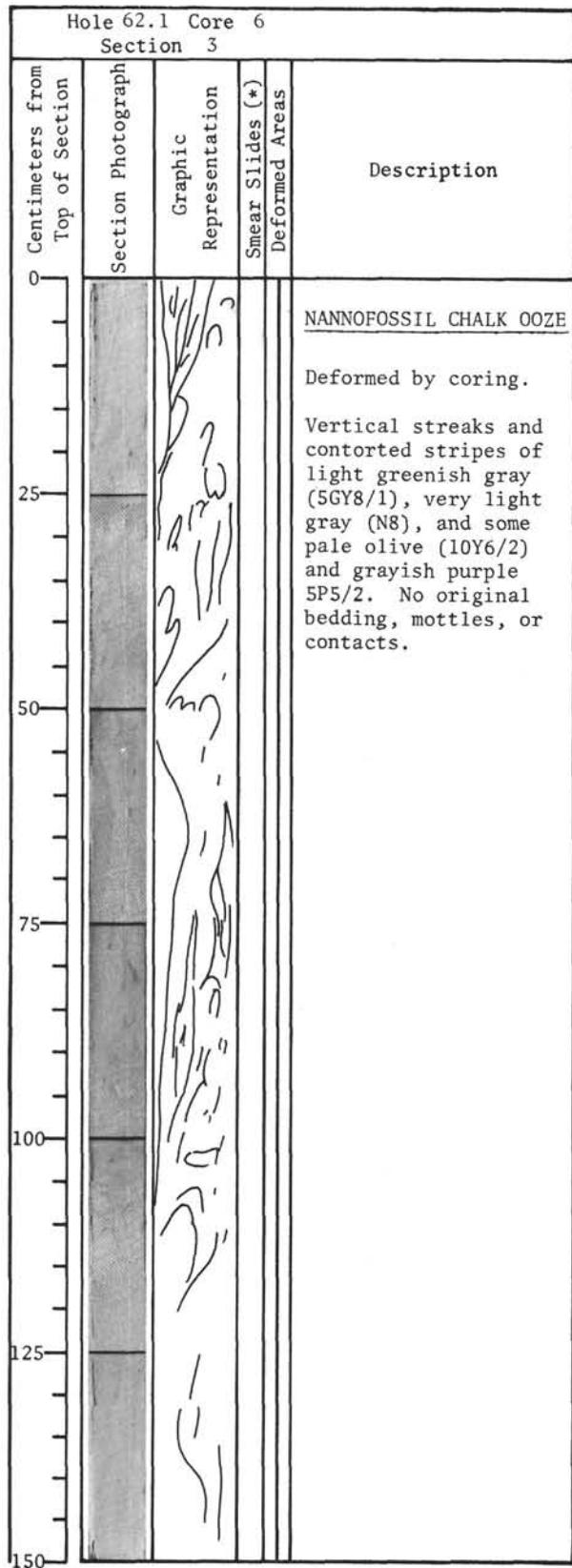


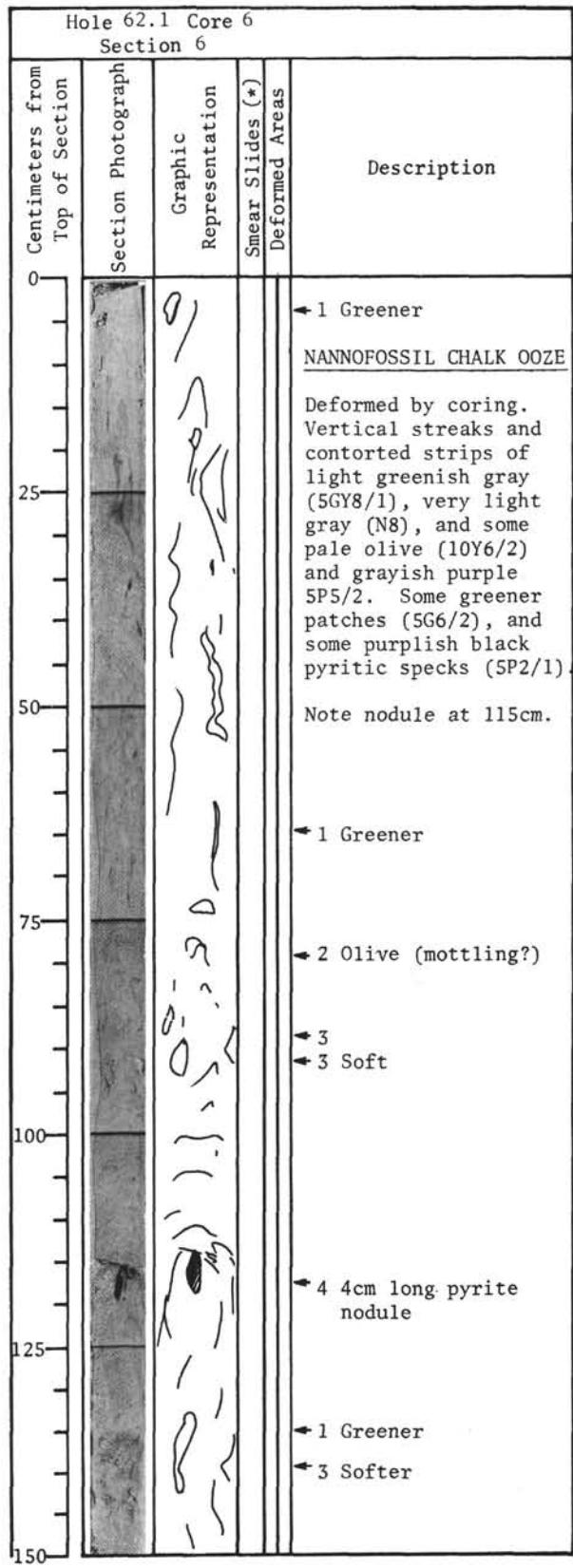
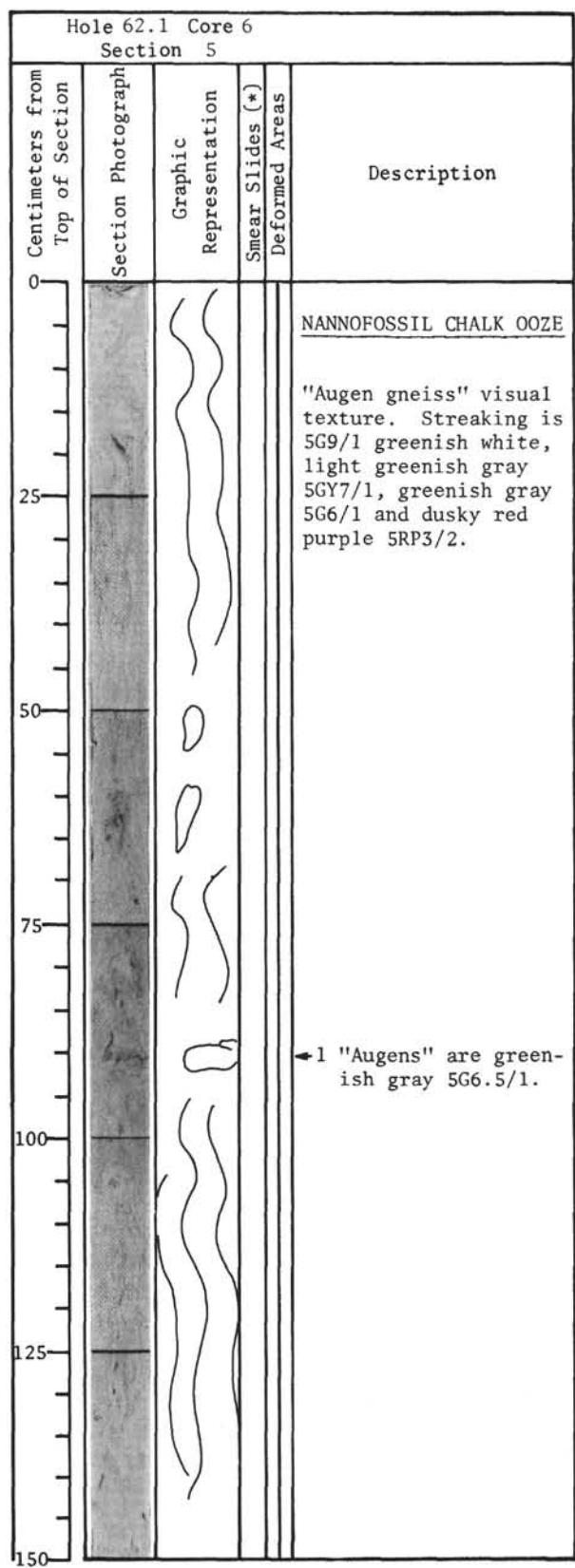
Lithology and biostratigraphy of Core 6, Hole 62.1.

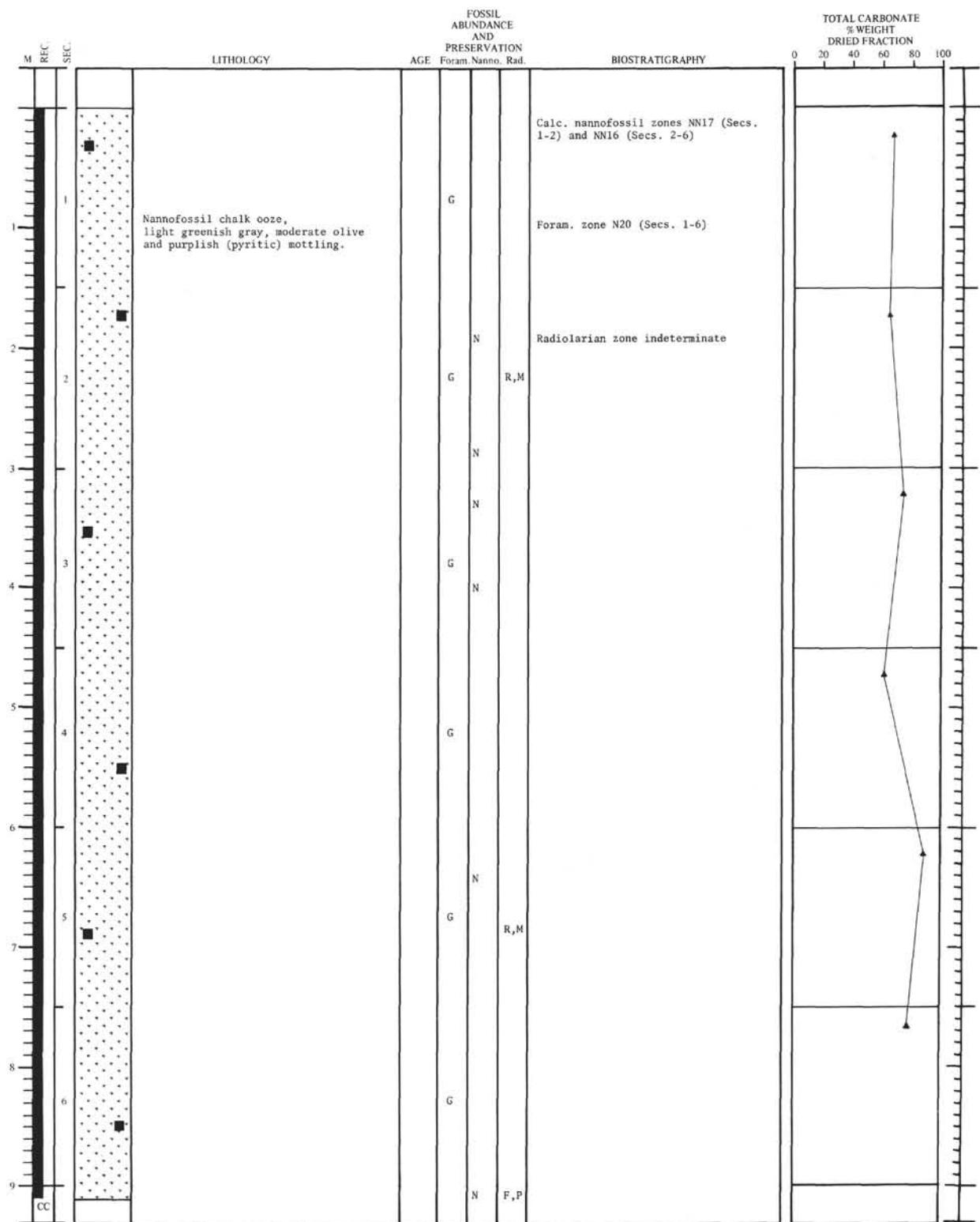


Physical properties of Core 6, Hole 62.1.

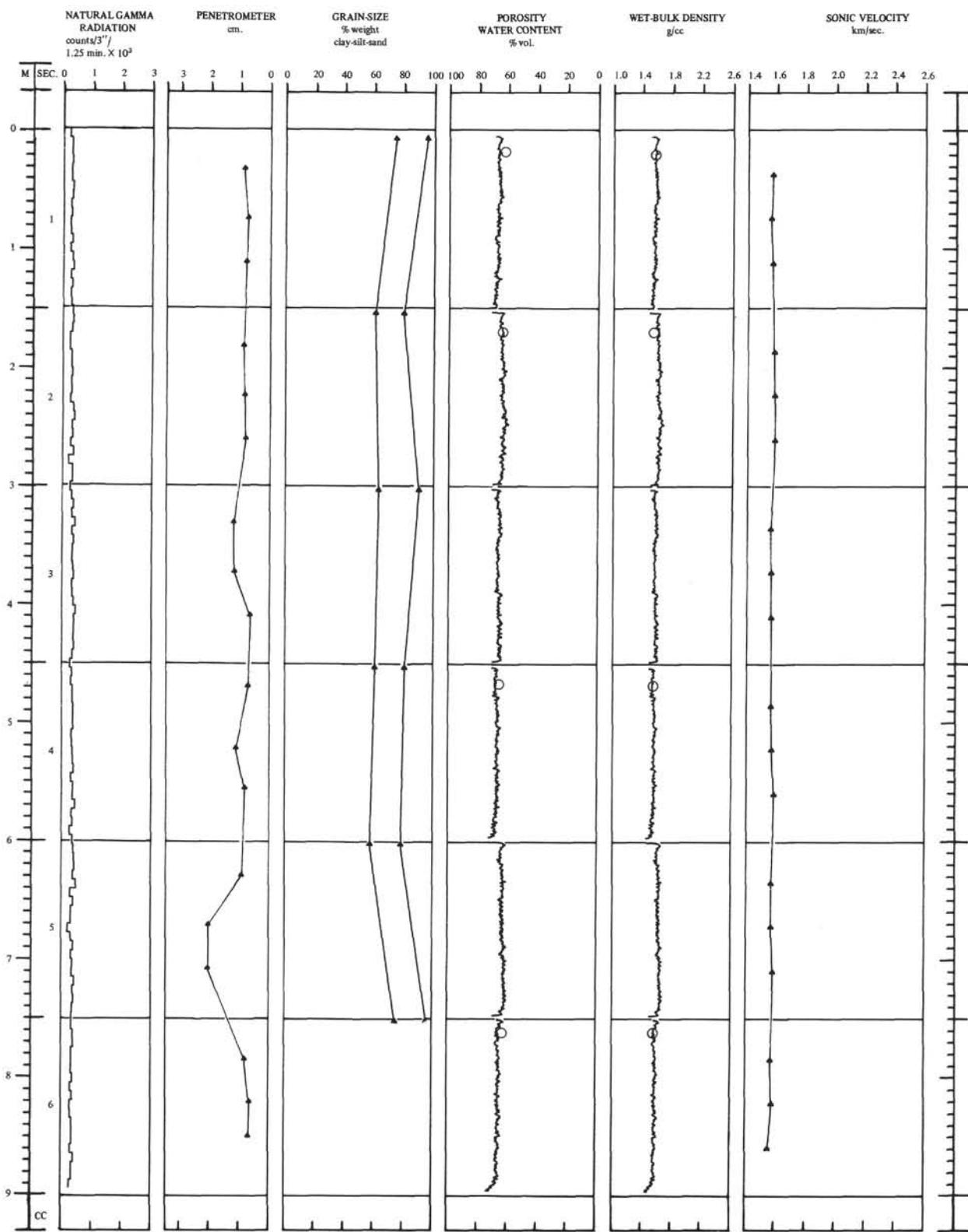
Hole 62.1 Core 6 Section 1					Hole 62.1 Core 6 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
0					Description				
25					→ 1 Very watery.				
50					NANNOFOSSIL CHALK OOZE				
75					→ 2 Very soft.				
100					Mainly light greenish gray (5GY8/1) to very light gray (N8) ooze, with slight mottles and bands and streaks of dusky yellow 5Y6/4 to pale olive 10Y6/2; smears of grayish purple 5P5/2; probably all disturbance from coring. A more indurated, grayish green 5G5/2 lump at ~11cm.				
125									
150									
0					Description				
25					NANNOFOSSIL CHALK OOZE				
50					Pale greenish gray 5G8.5/1 with moderate to strong pale olive 10Y6/2, grayish green 10GY5/2 and dusky purple (pyritic) 5P3/2 mottling.				
75					→ 1 More or less undisturbed.				
100									
125									
150									



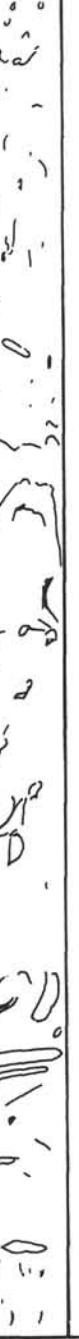
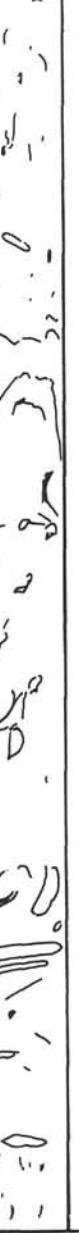
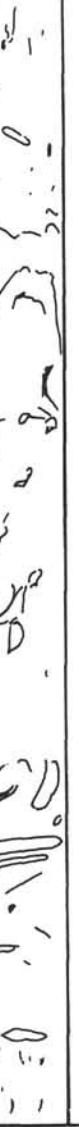


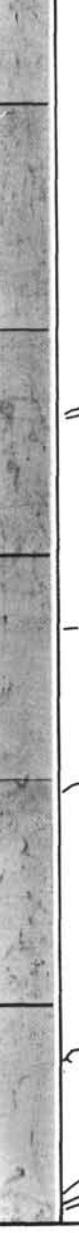


Lithology and biostratigraphy of Core 7, Hole 62.1.



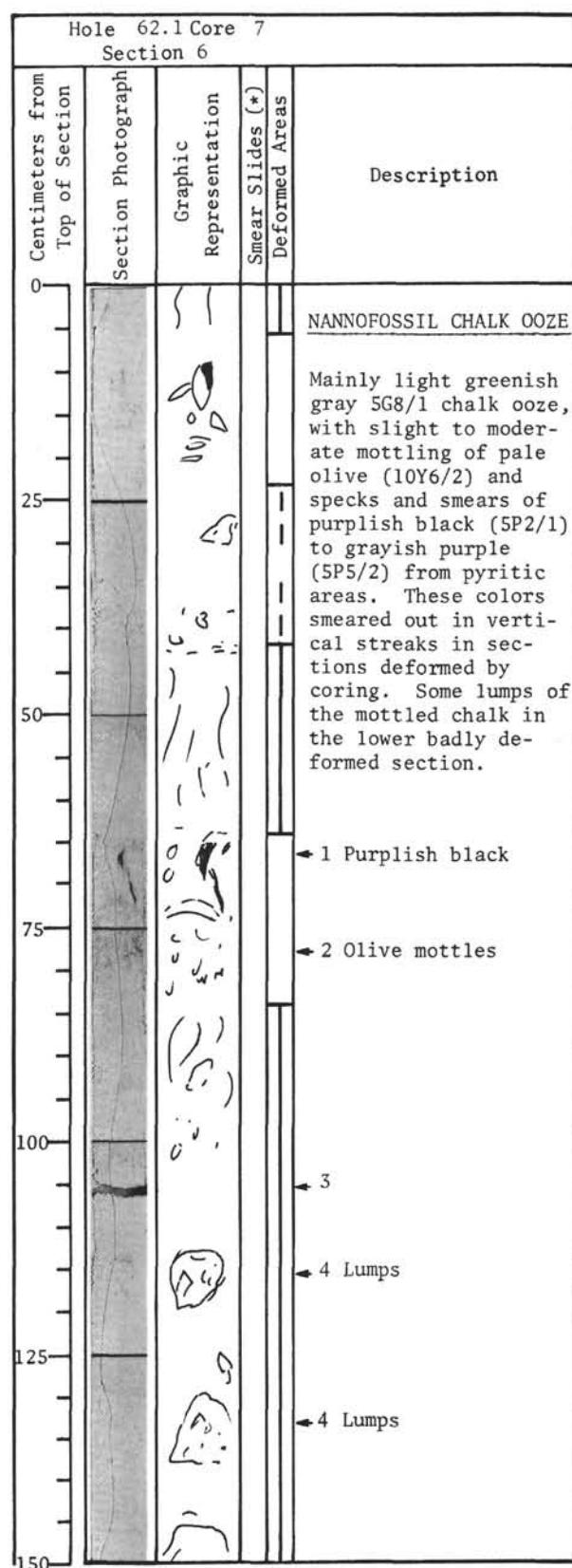
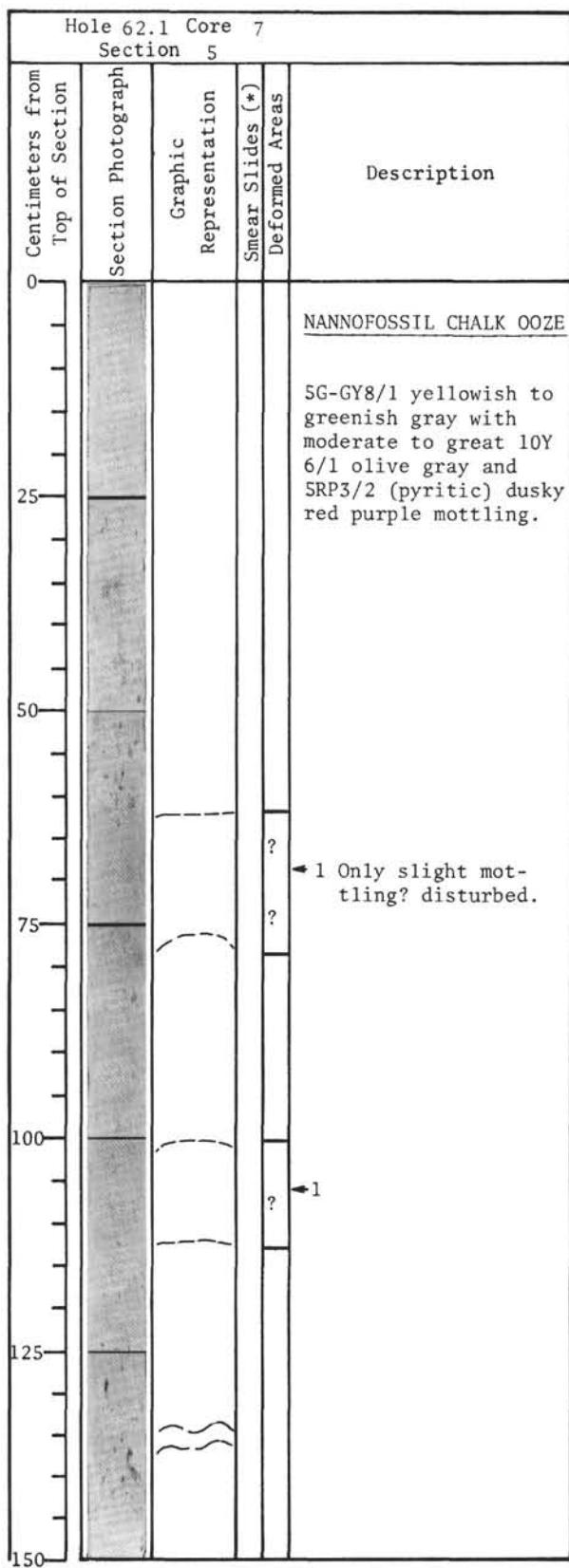
Physical properties of Core 7, Hole 62.1.

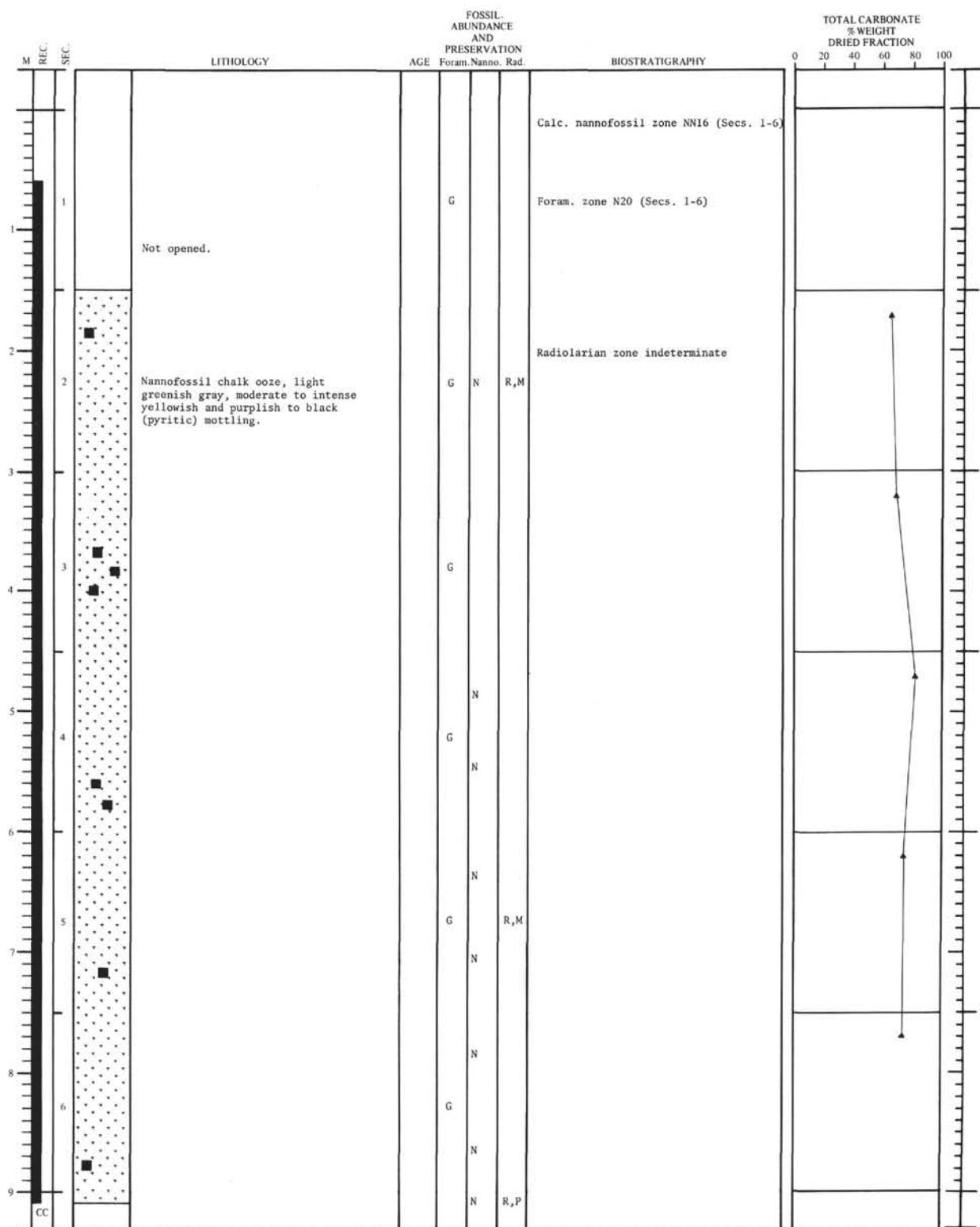
Hole 62.1 Core 7 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25			→ 1 Olive mottles	
50			→ 2 Purple streaks and mottles.	
75			<u>NANNOFOSSIL CHALK Ooze</u> Mainly light greenish gray (5G8/1) chalk ooze with slight mottles of pale olive (10Y6/2) and smears of grayish purple (5P5/2) to streaks of purplish black (5P2/1) from pyrite two greener pale green (10G6/2) layers (beds?) near 120cm.	
100			→ 3 Green	
125				
150				

Hole 62.1 Core 7 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75			→ Band of grayish green 5G5/2.	
100				
125			Indistinct gradational boundary. As above, but slight mottling.	
150			Indistinct boundary. As top section (0-83cm)	
				Gradational boundary. As 83-100cm. Sharp boundary. As 0-83cm. Band of grayish green → 5G5/2.

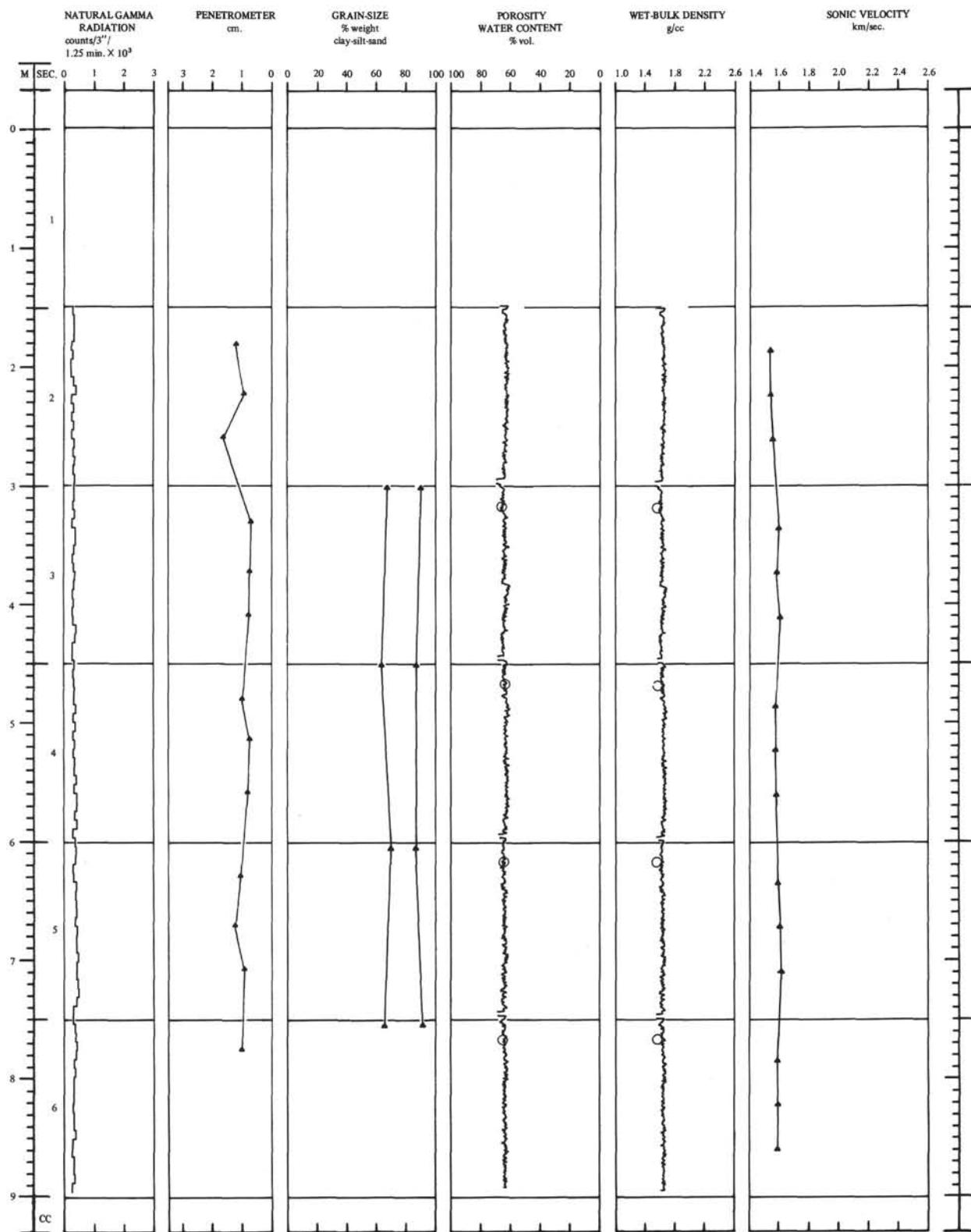
Hole 62.1 Core 7 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				
<p>→ 1 Olive mottles</p> <p>→ 2 Indistinct contact</p> <p><u>NANNOFOSSIL CHALK OOZE</u></p> <p>Mainly light greenish gray (5G8/1) chalk ooze, with slight to moderate mottling of pale olive (10Y6/2) and smears of purplish black (5P5/2) from pyritic areas. Some greener bands (beds?) pale green (10G6/2).</p> <p>→ 3 Purplish black</p> <p>→ 3</p> <p>Not as badly deformed as most sections near here.</p> <p>→ 4 Greener</p> <p>→ 4</p> <p>→ 4</p> <p>→ 2 Indistinct contact</p>				

Hole 62.1 Core 7 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				
<p><u>NANNOFOSSIL CHALK OOZE</u></p> <p>→ 1 Purplish black specks</p> <p>Mainly light greenish gray 5G8/1 chalk ooze, with slight mottling of pale olive (10Y6/2) and specks and smears of purplish black (5P2/1) to grayish purple (5P5/2) from pyritic areas. These colors smeared out in sections deformed by drilling.</p> <p>→ 2 Olive mottles</p> <p>→ 2 Olive mottles</p> <p>Some pale green 10G6/2 beds? bands? mottles?</p> <p>→ 3 Greener</p>				

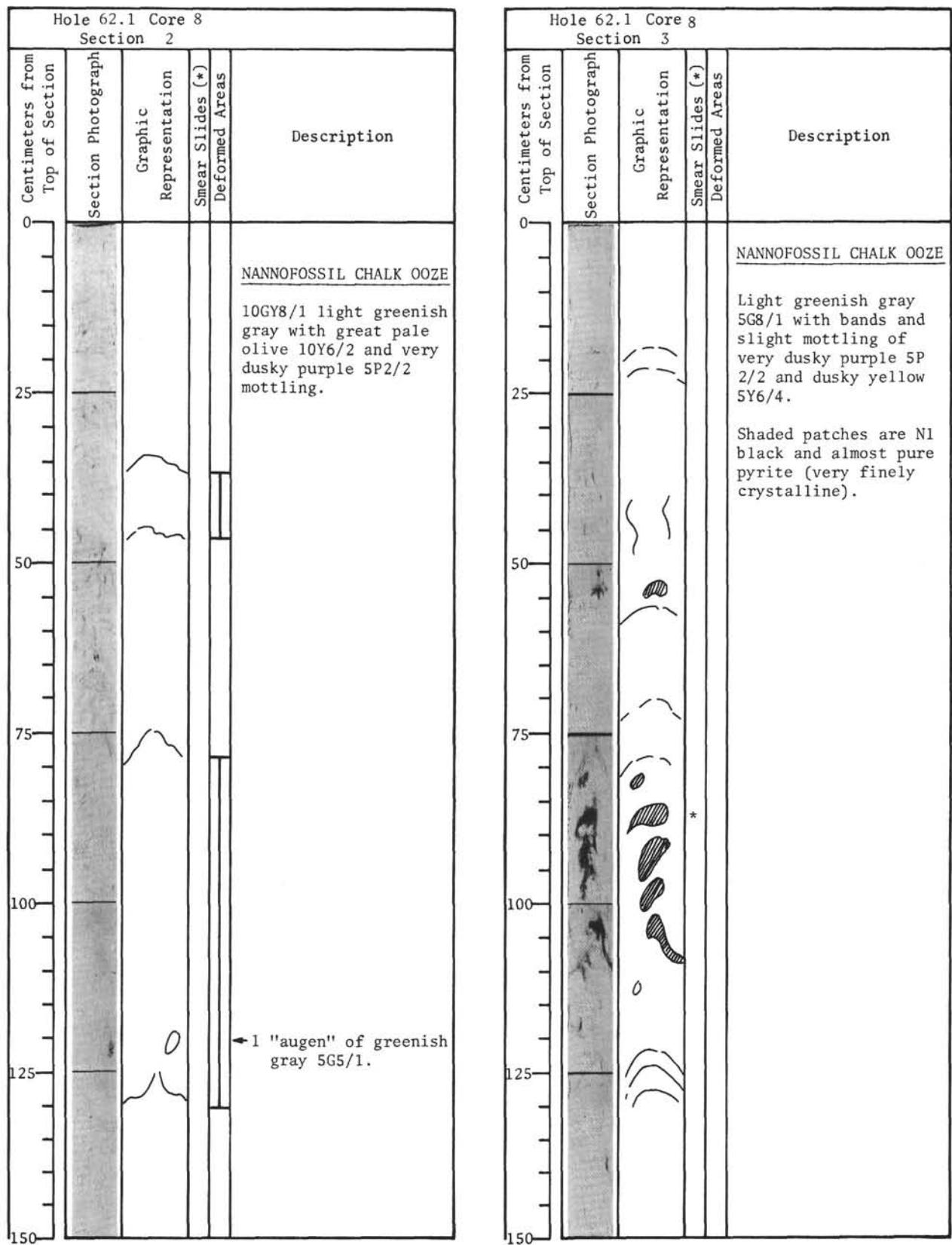


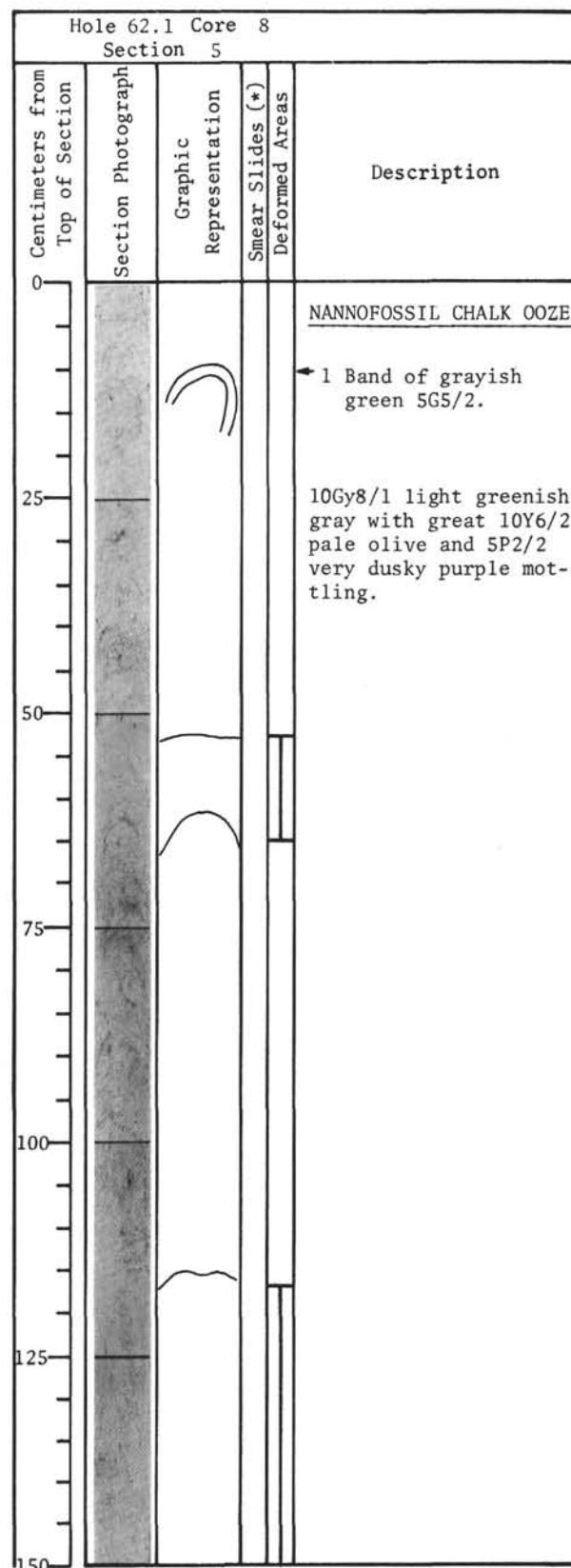
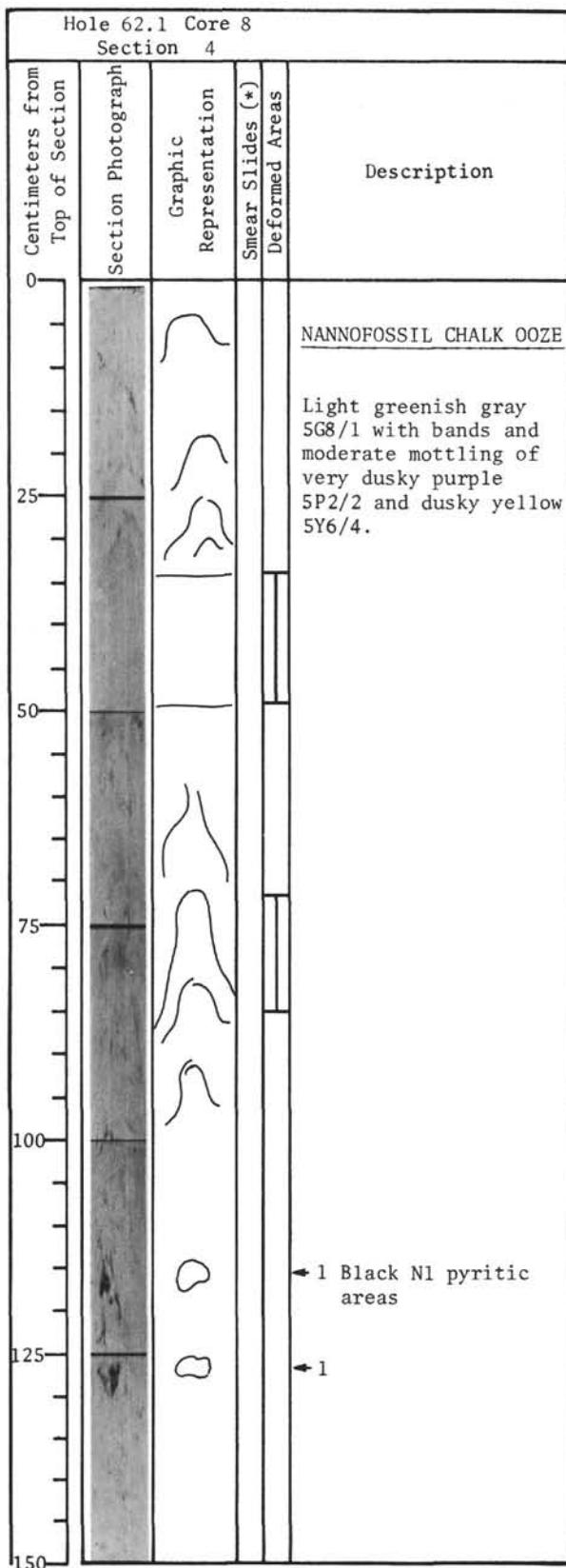


Lithology and biostratigraphy of Core 8, Hole 62.1.

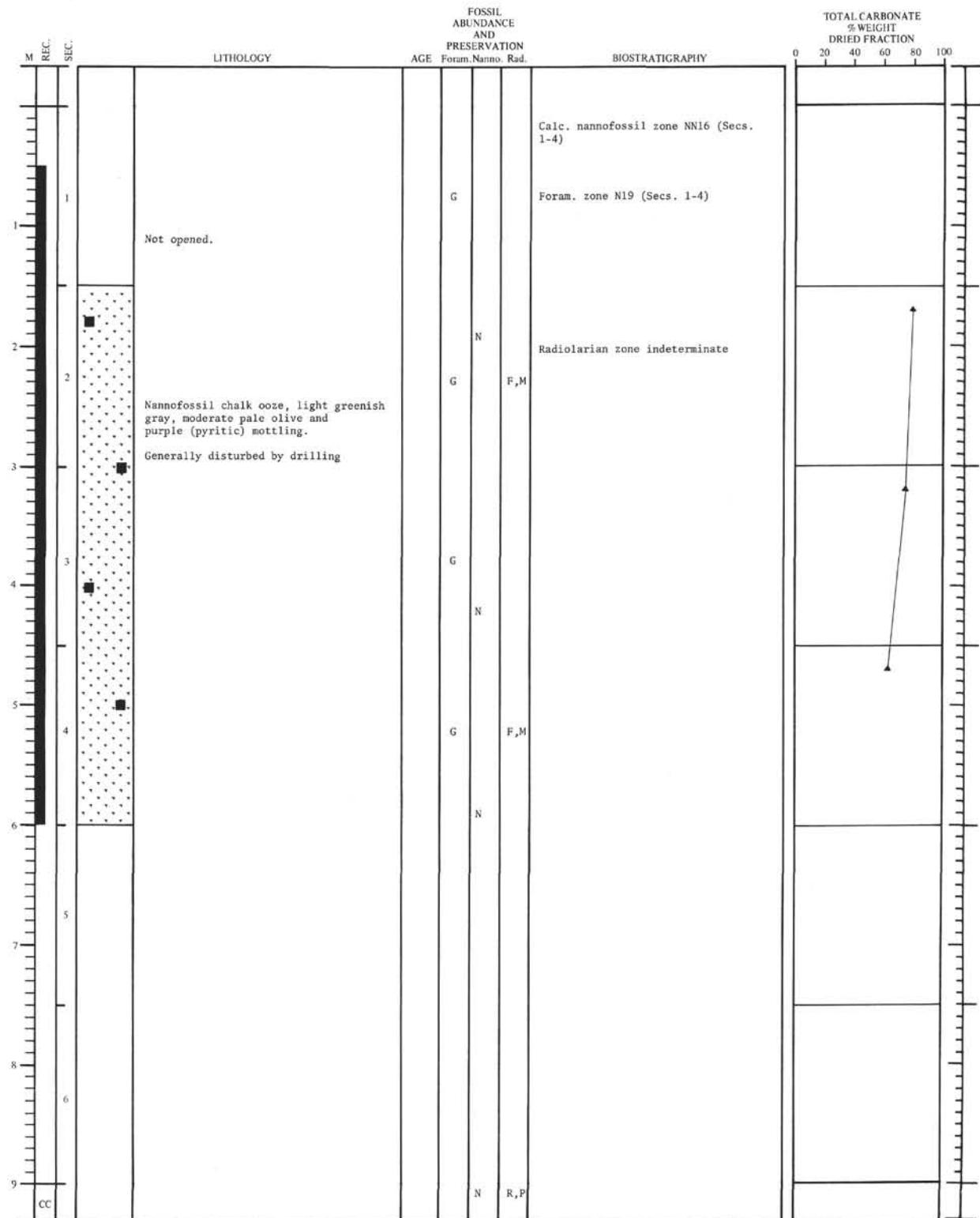


Physical properties of Core 8, Hole 62.1.

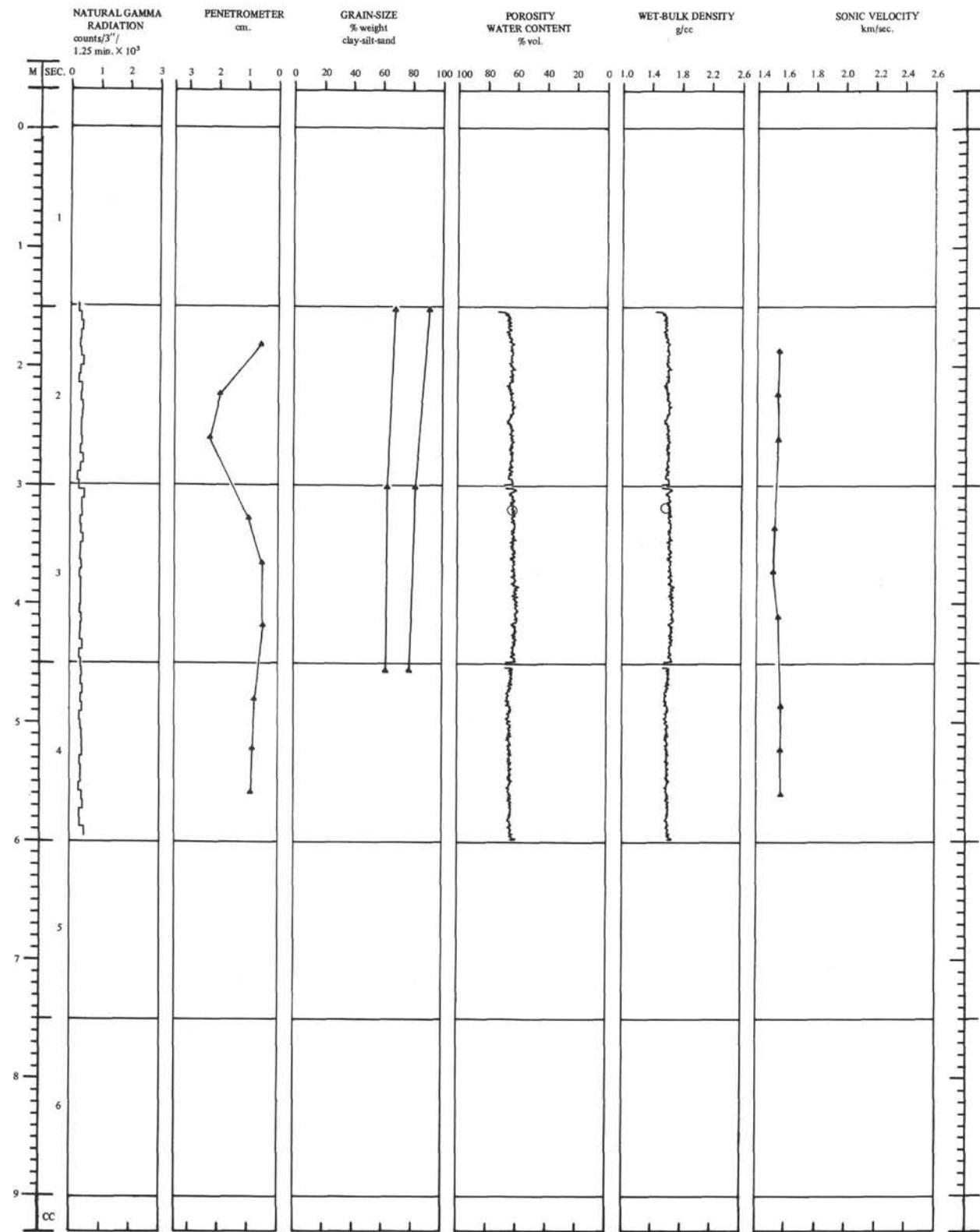




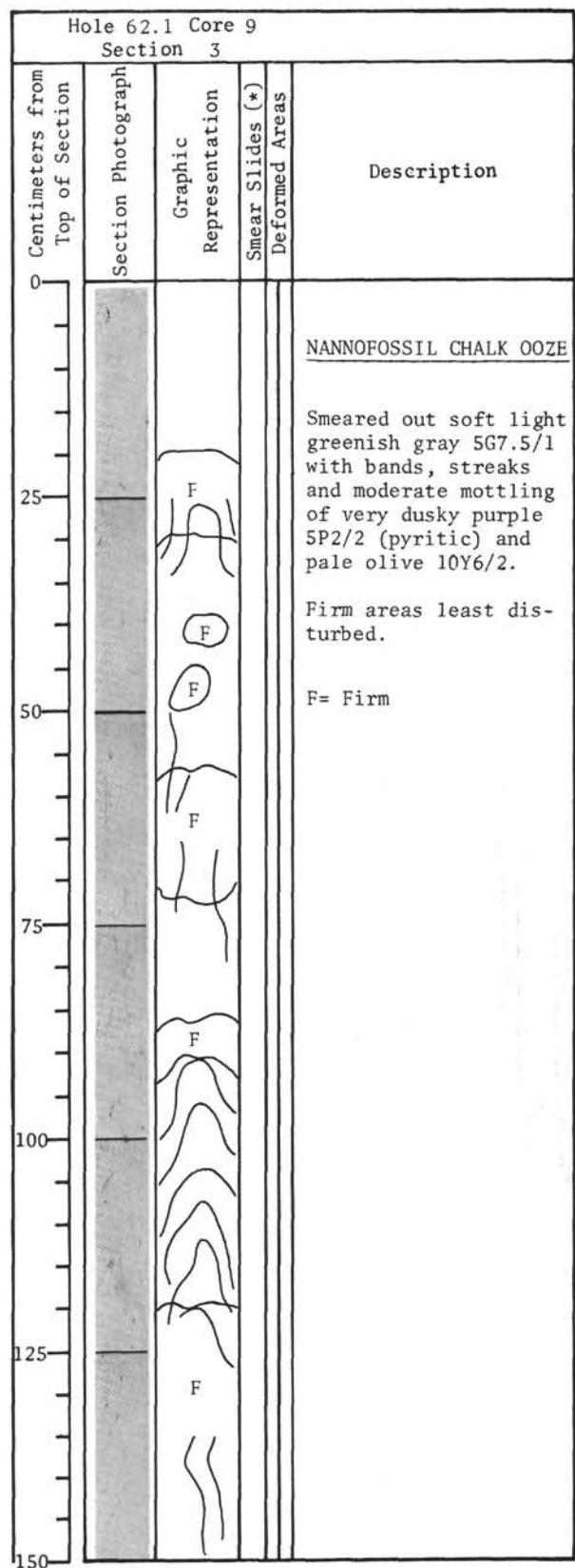
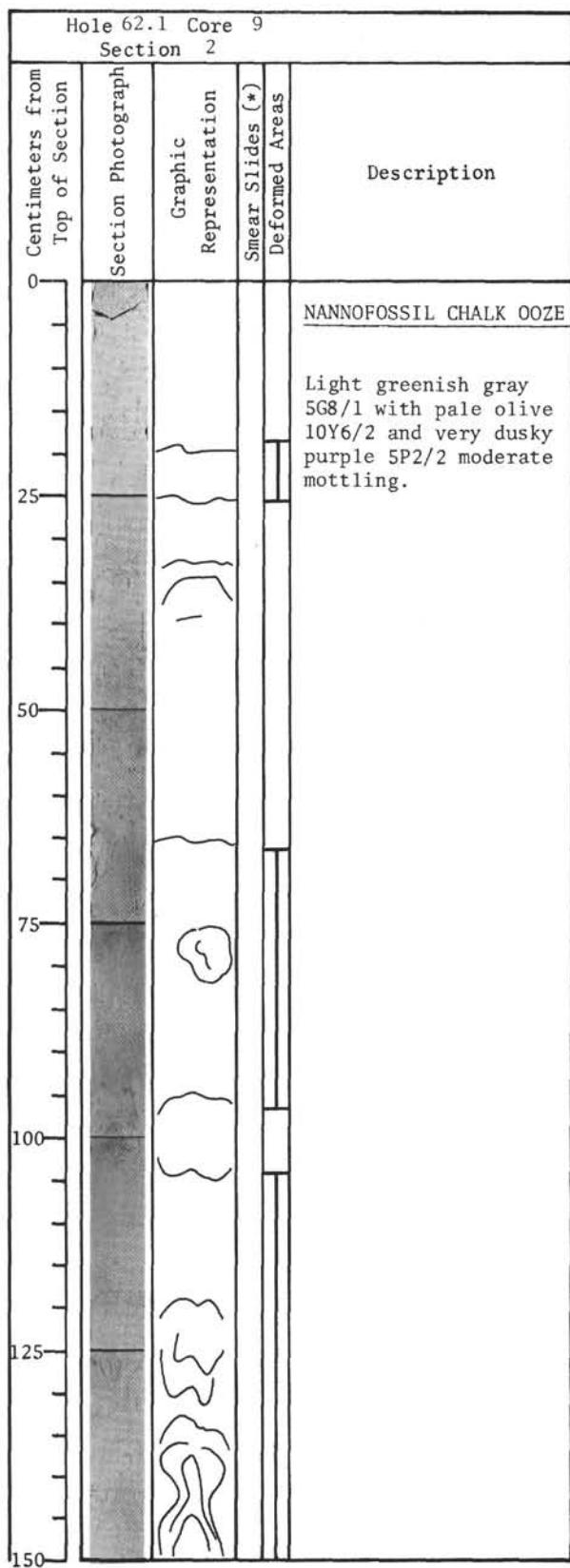
Hole 62.1 Core 8 Section 6					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK OOZE</u>
25					0-35cm: Light greenish gray 5G8/1 with bands and moderate mottling of very dusky purple 5P2/2 and dusky yellow 5Y6/4.
50					35-150cm: Uniform soft disturbed greenish gray 5G7/1.
75					
100					
125					
150					



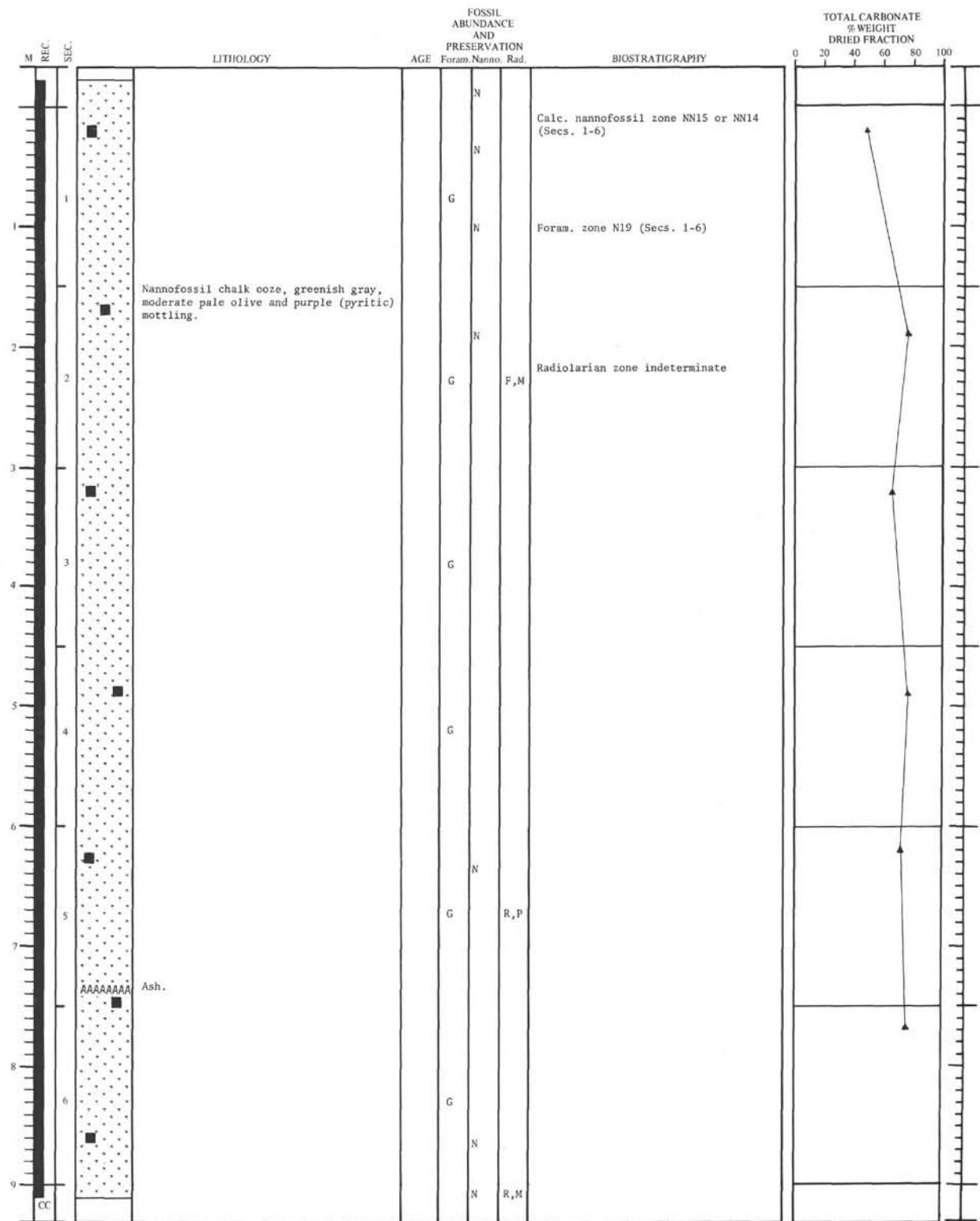
Lithology and biostratigraphy of Core 9, Hole 62.1.



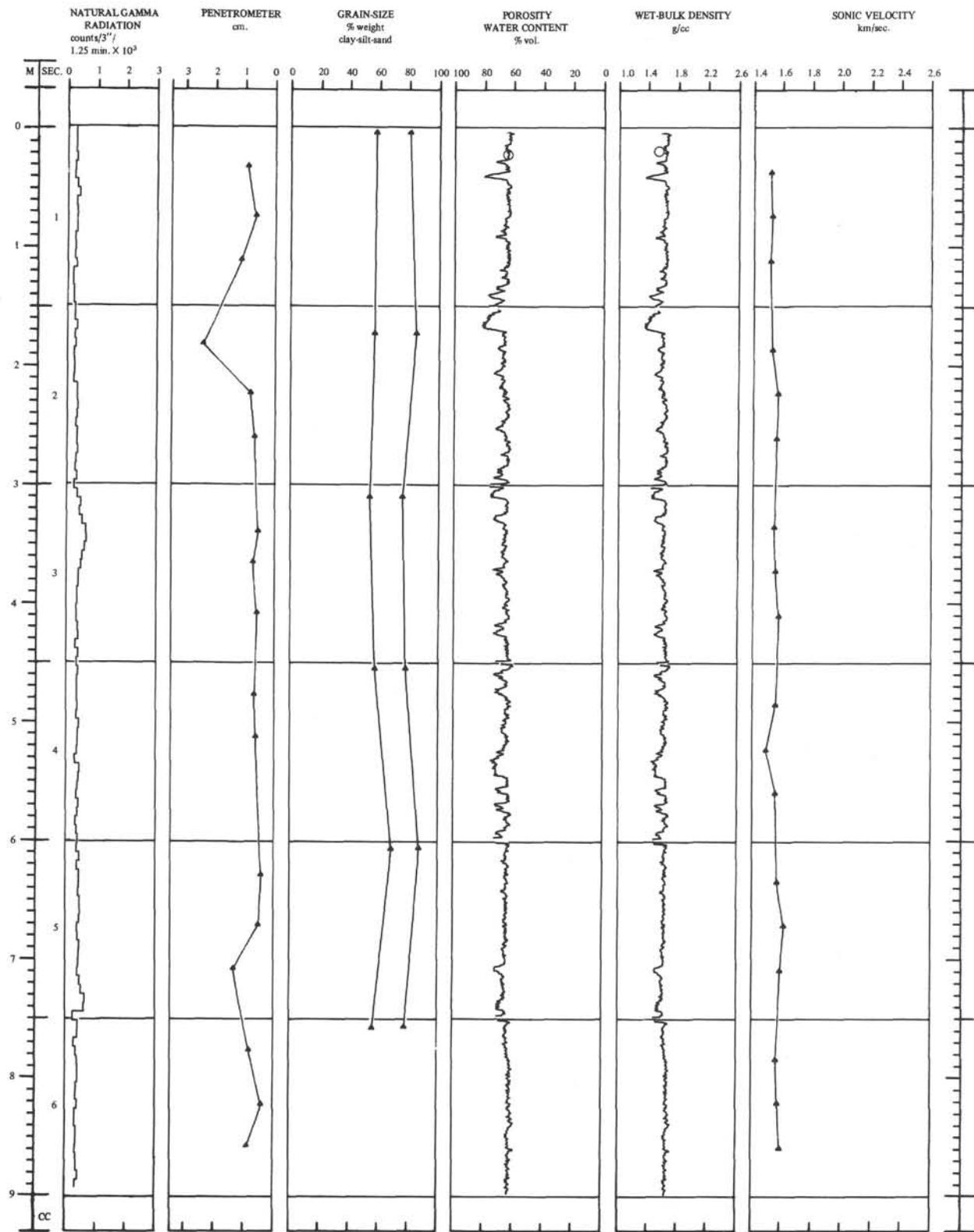
Physical properties of Core 9, Hole 62.1.



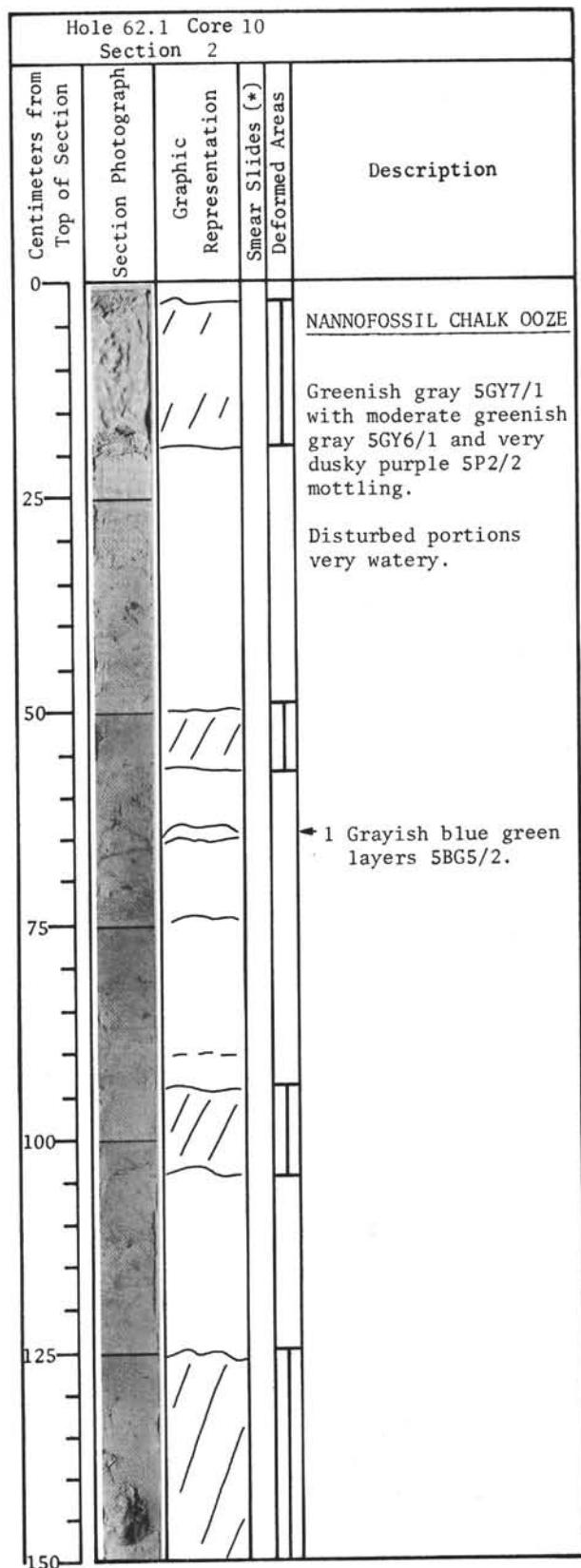
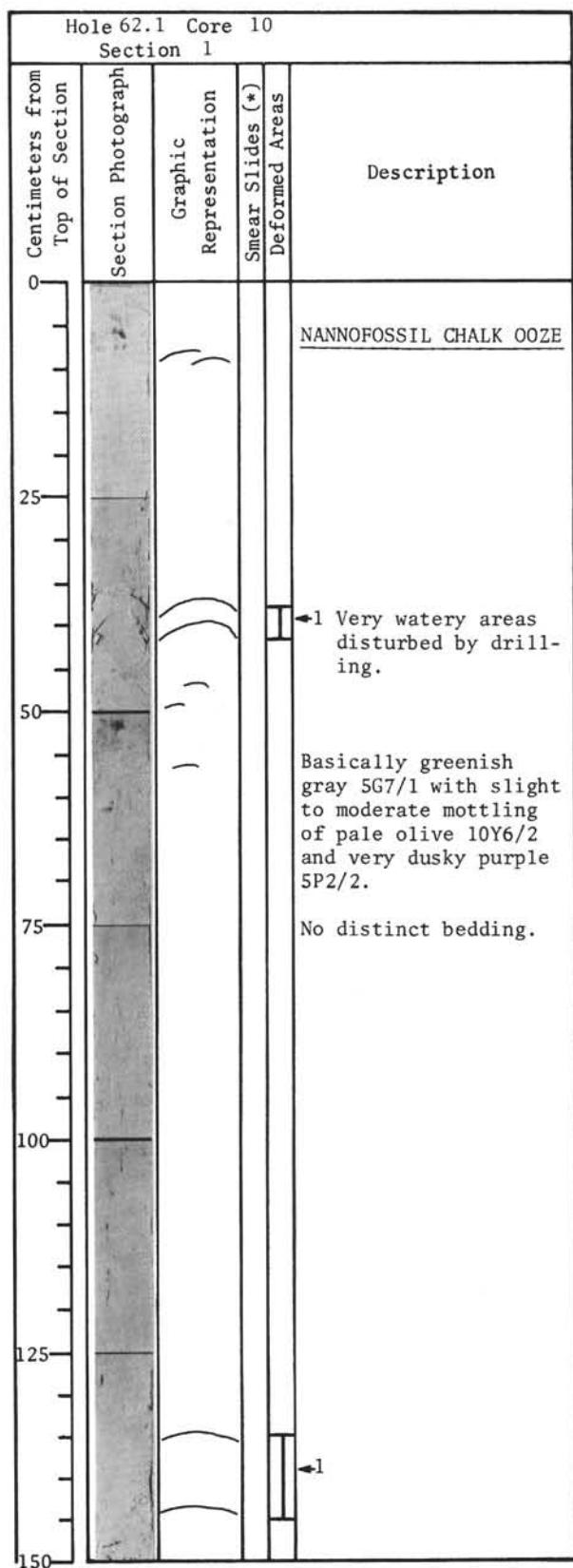
Hole 62.1 Core 9 Section 4					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK OOZE</u>
25					Light greenish gray 5G8/1 with pale olive 10Y6/2 and very dusky purple 5P2/2 moderate mottling. Smeared out.
50					
75					
100					
125					
150					

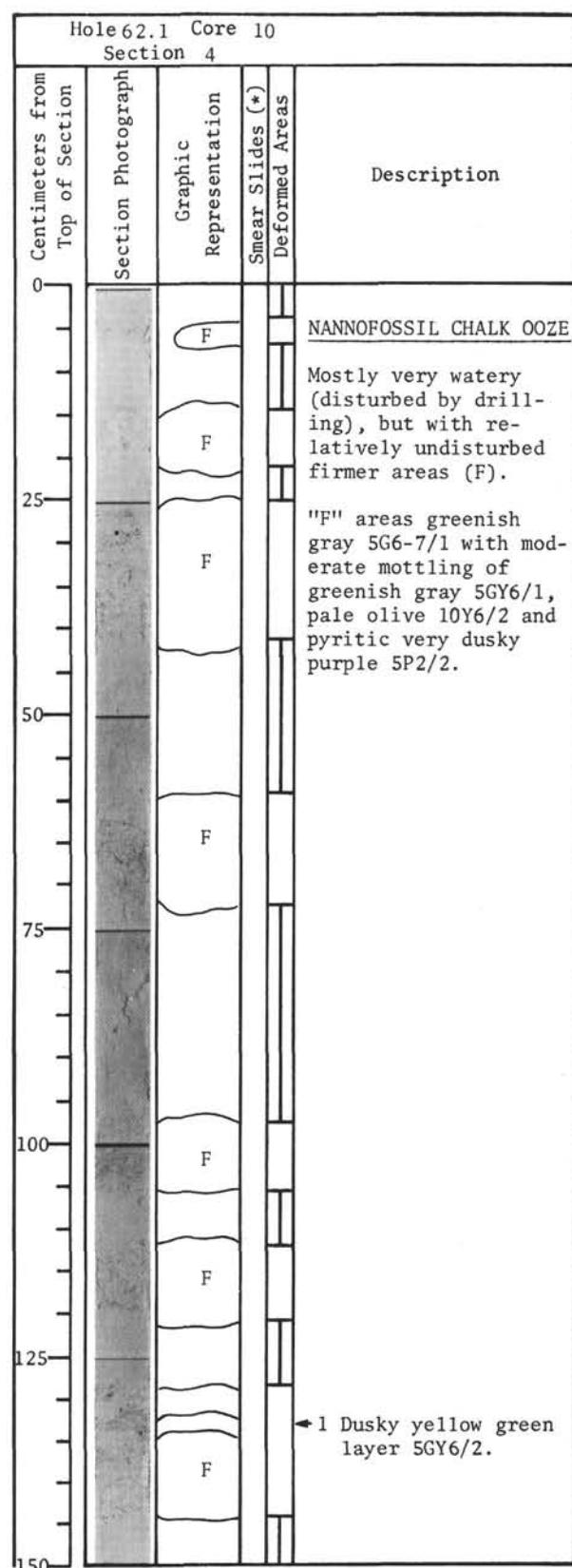
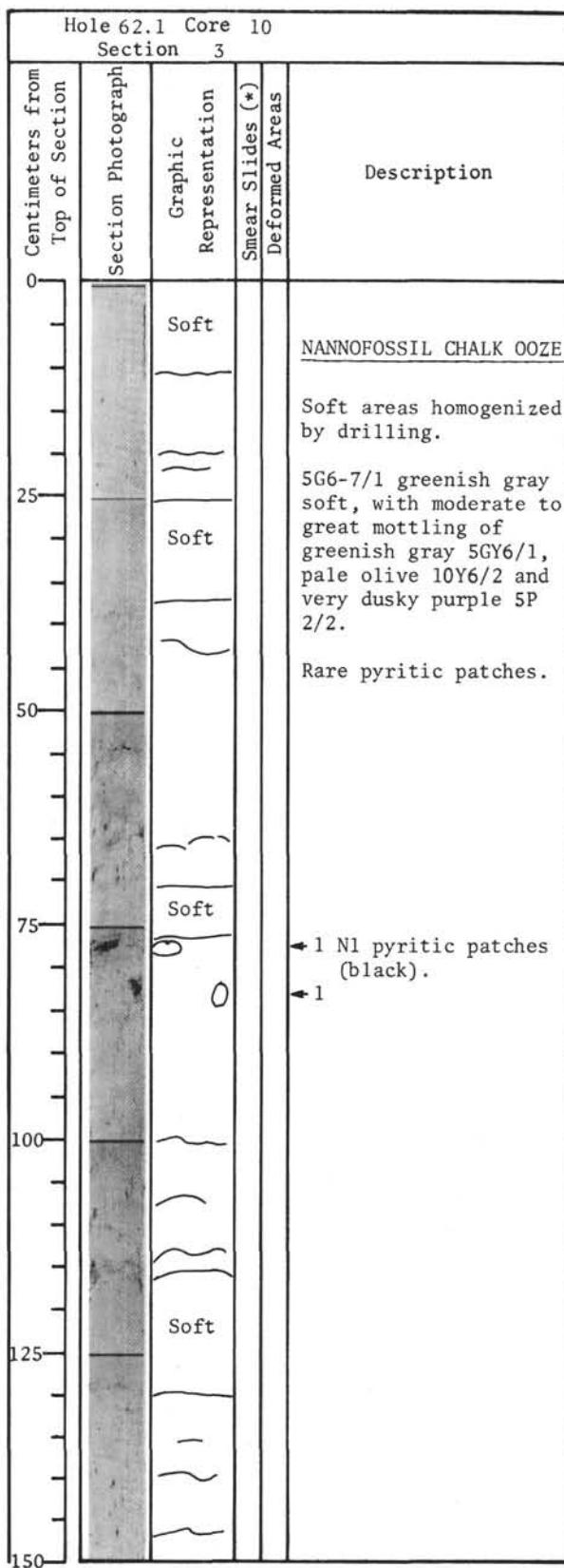


Lithology and biostratigraphy of Core 10, Hole 62.1.



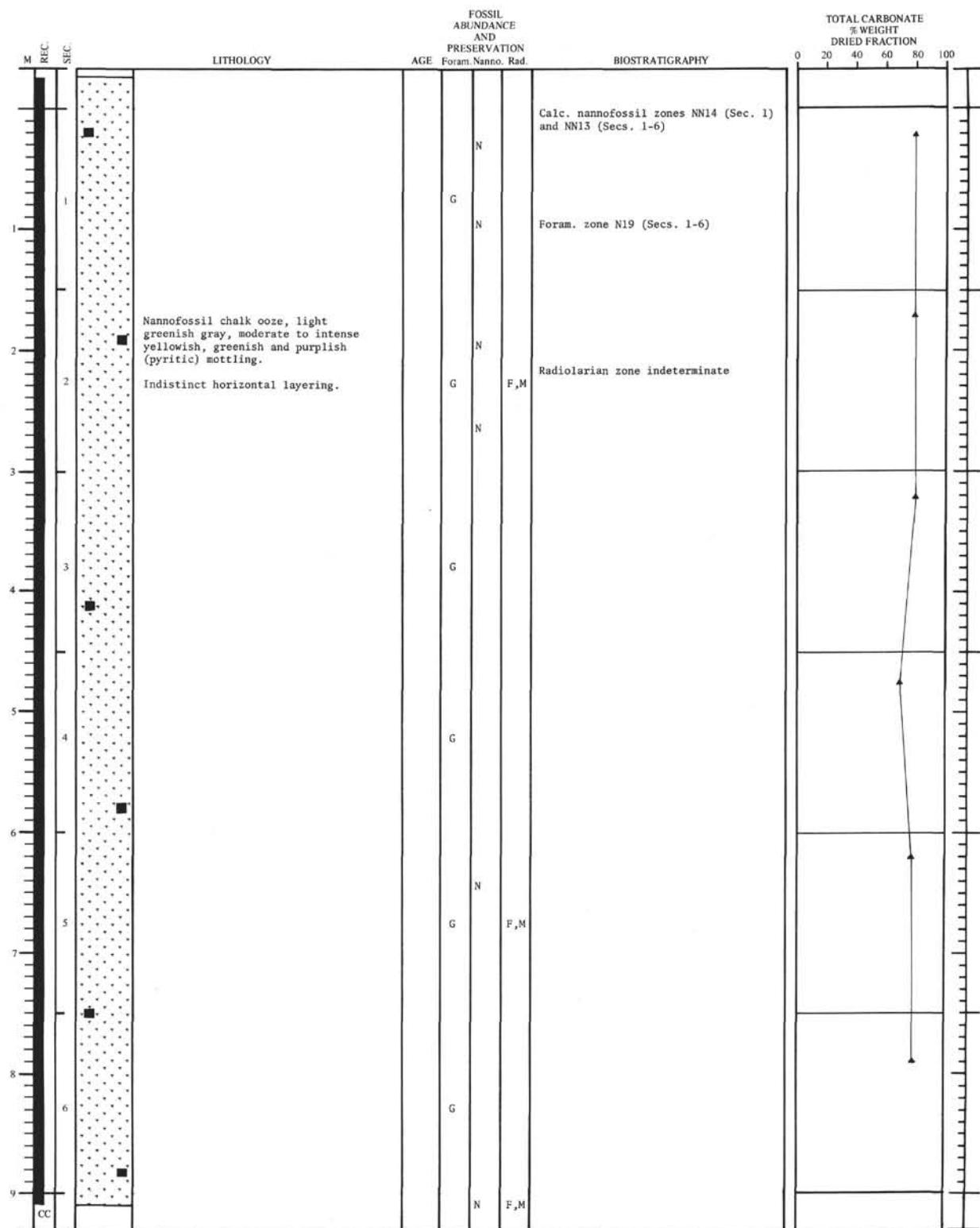
Physical properties of Core 10, Hole 62.1.



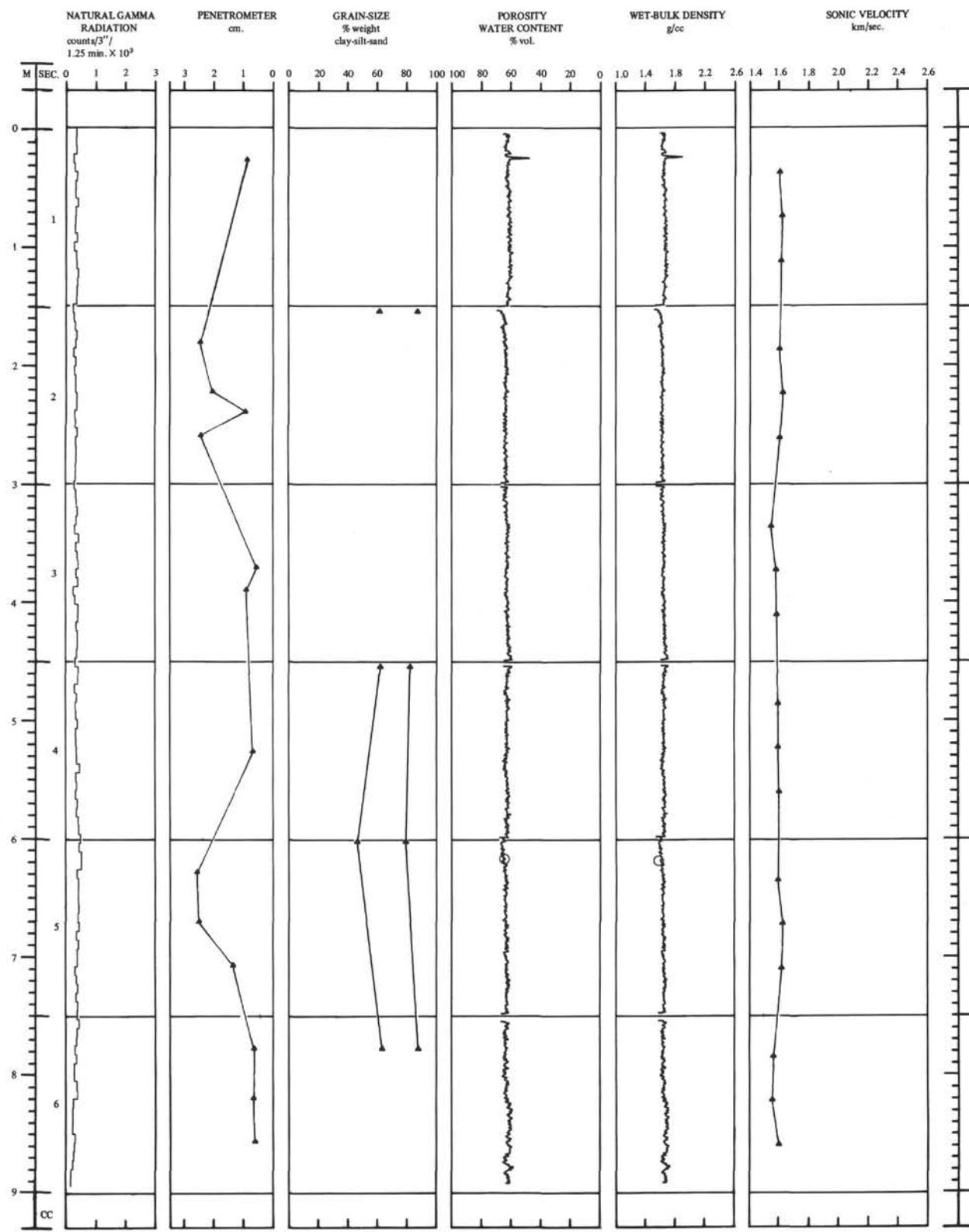


Hole 62.1 Core 10 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
			Description	
NANNOFOSSIL CHALK OOZE				
0-137cm:				
Greenish gray 5GY7/1 with moderate greenish gray 5GY6/1 and very dusky purple 5P2/2 mottling.				
137cm:				
Gradational boundary. 5Y2/1 olive black ash, with clear fresh acid shards with much ? magnetite. Sharp horizontal boundary at 0-137cm.				
137-143cm:				
143cm:				
143-150cm:	*			

Hole 62.1 Core 10 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
			Description	
NANNOFOSSIL CHALK OOZE				
0-25cm:				
Much homogenization by drilling "F" (firm) areas more or less undisturbed.				
25-50cm:				
"F" areas 5G6-7/1 greenish gray with moderate banding and mottling of grayish green 10GY5/2, pale olive 10Y6/2 and very dusky purple 5P2/2 layering more or less horizontal.				
50-75cm:				
75-100cm:				
100-125cm:				
125-150cm:				



Lithology and biostratigraphy of Core 11, Hole 62.1.



Physical properties of Core 11, Hole 62.1.

Hole 62.1 Core 11 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

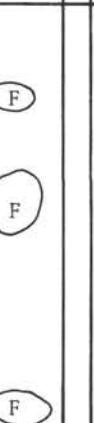
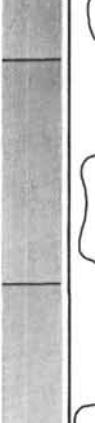
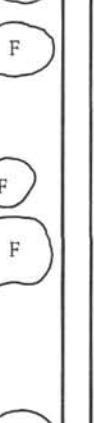
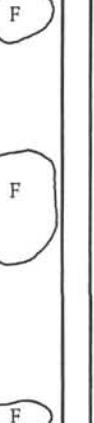
Mostly very watery material homogenized by drilling.

Firm areas "F" are light greenish gray 5G8/1 with subtle, moderate mottling, including some 5P2/2 very dusky purple.

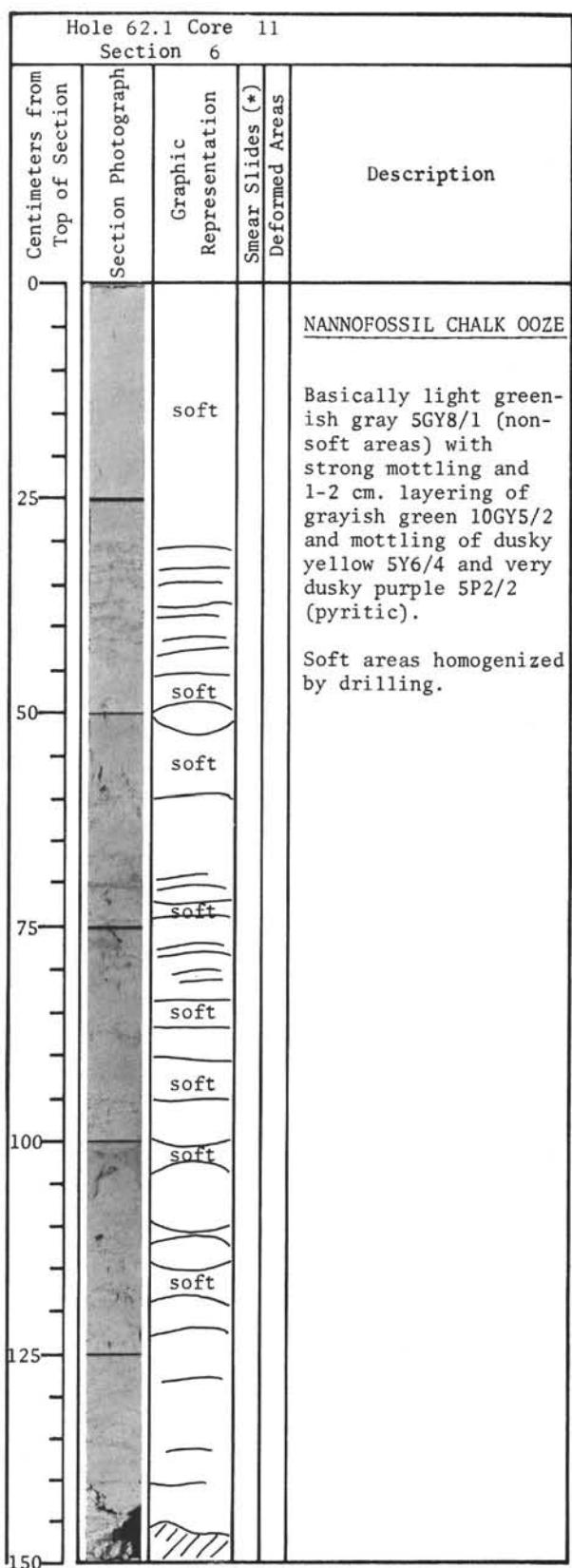
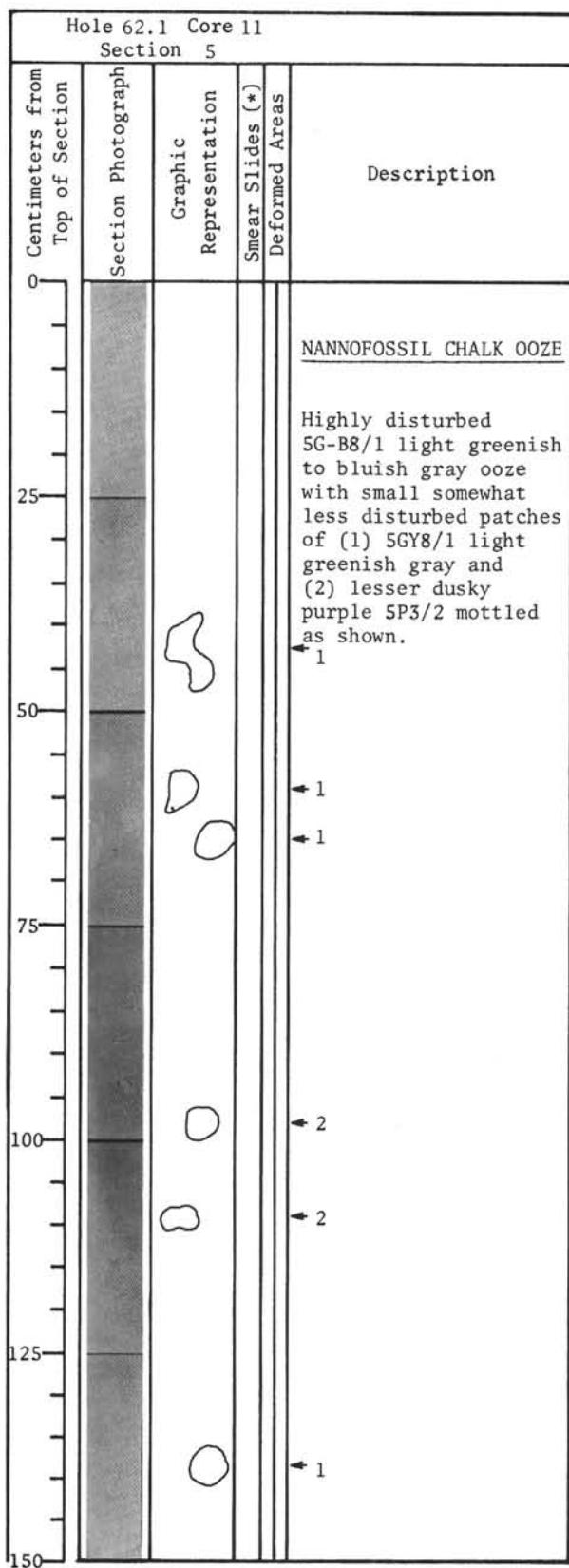
Hole 62.1 Core 11 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

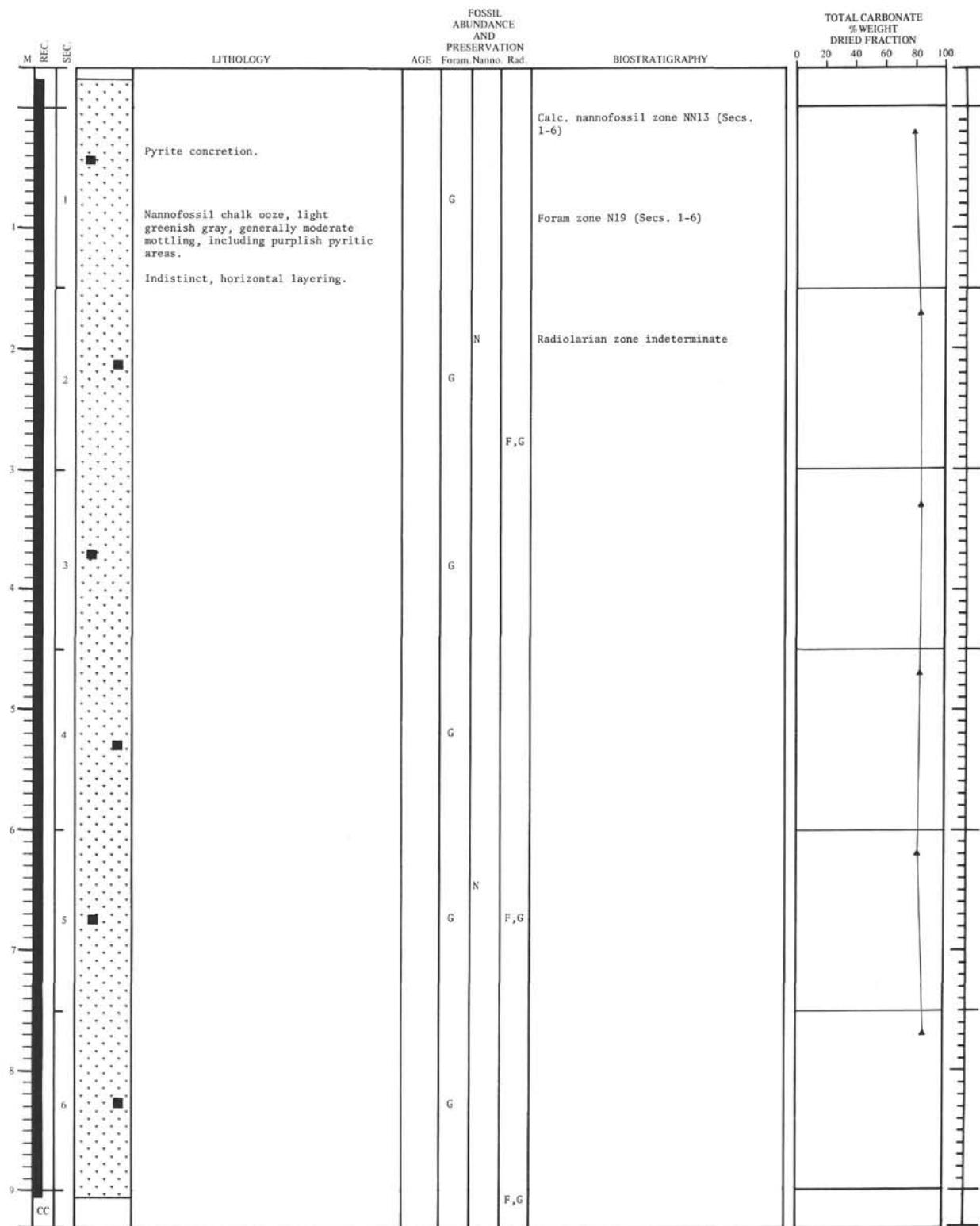
NANNOFOSSIL CHALK OOZE

Light greenish to bluish gray 5G-B8/1 uniform ooze with less disturbed patches of greenish gray 5G6/1 and dusky purple 5P3/2.

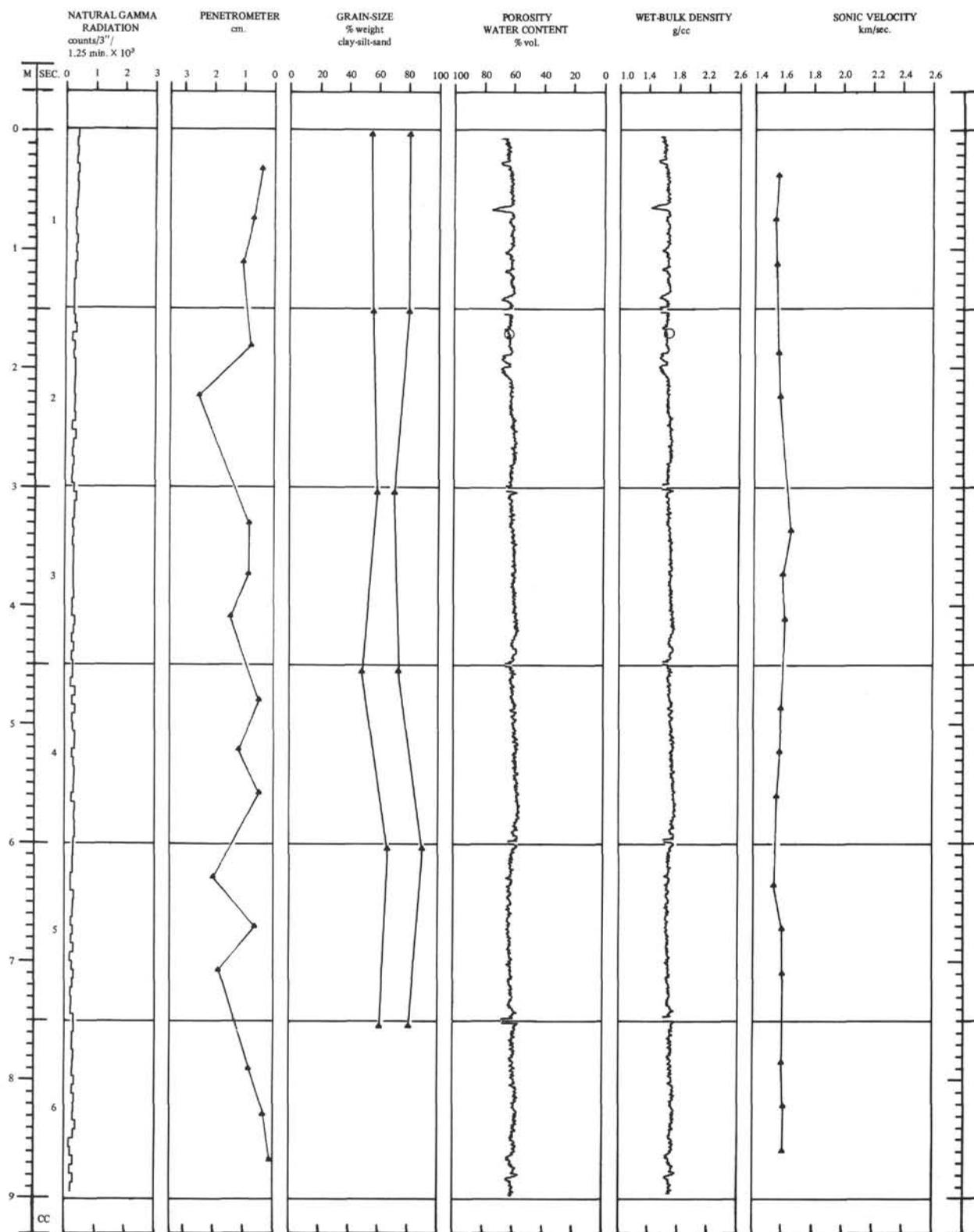
Hole 62.1 Core 11 Section 3			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			NANNOFOSSIL CHALK OOZE Mainly slush with few firm areas (F) representing less sediment. "F" areas greenish gray 5GY7/1 with moderate mottling of greenish gray 5G6/1, pale olive 10Y6/2 and very dusky purple 5P2/2.
50			Distorted bedding.
75			
100			
125			
150			

Hole 62.1 Core 11 Section 4			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			NANNOFOSSIL CHALK OOZE Soft areas homogenized by drilling.
50			Firmer parts greenish gray 5GY7/1 with moderate mottling of greenish gray 5G6/1, pale olive 10Y6/2 and very dusky purple 5P2/2.
75			Bedding distorted.
100			
125			
150			

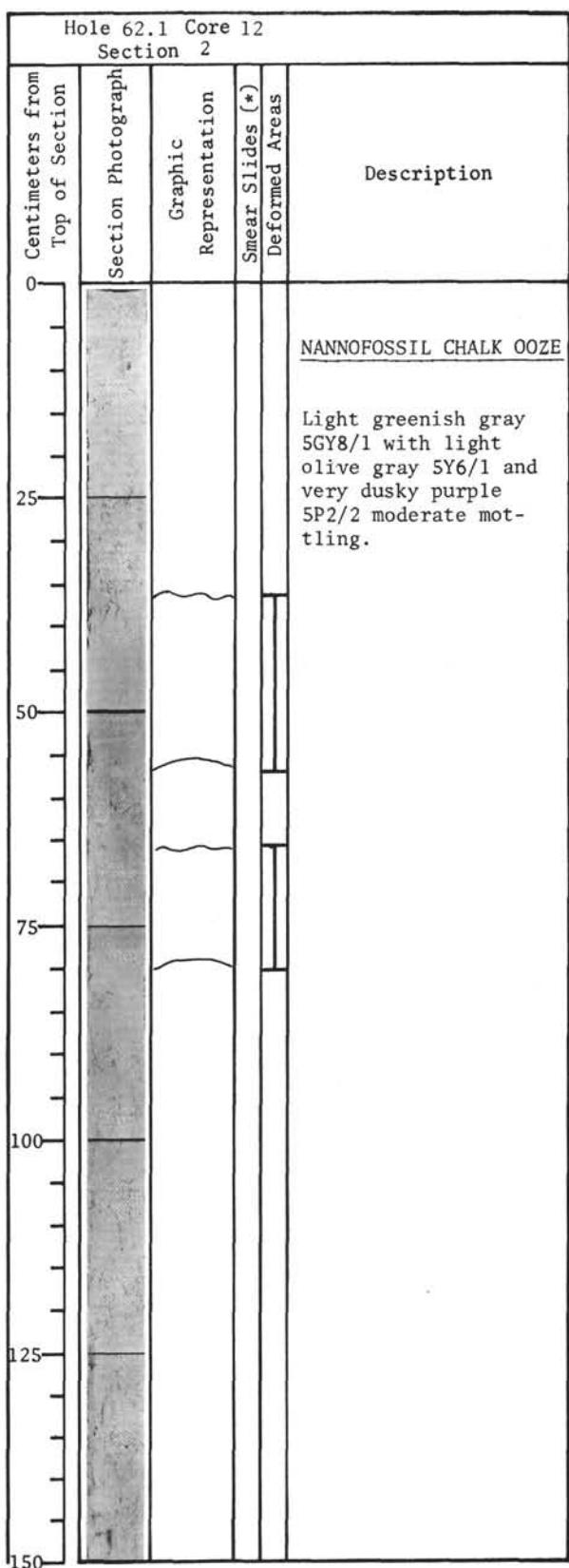
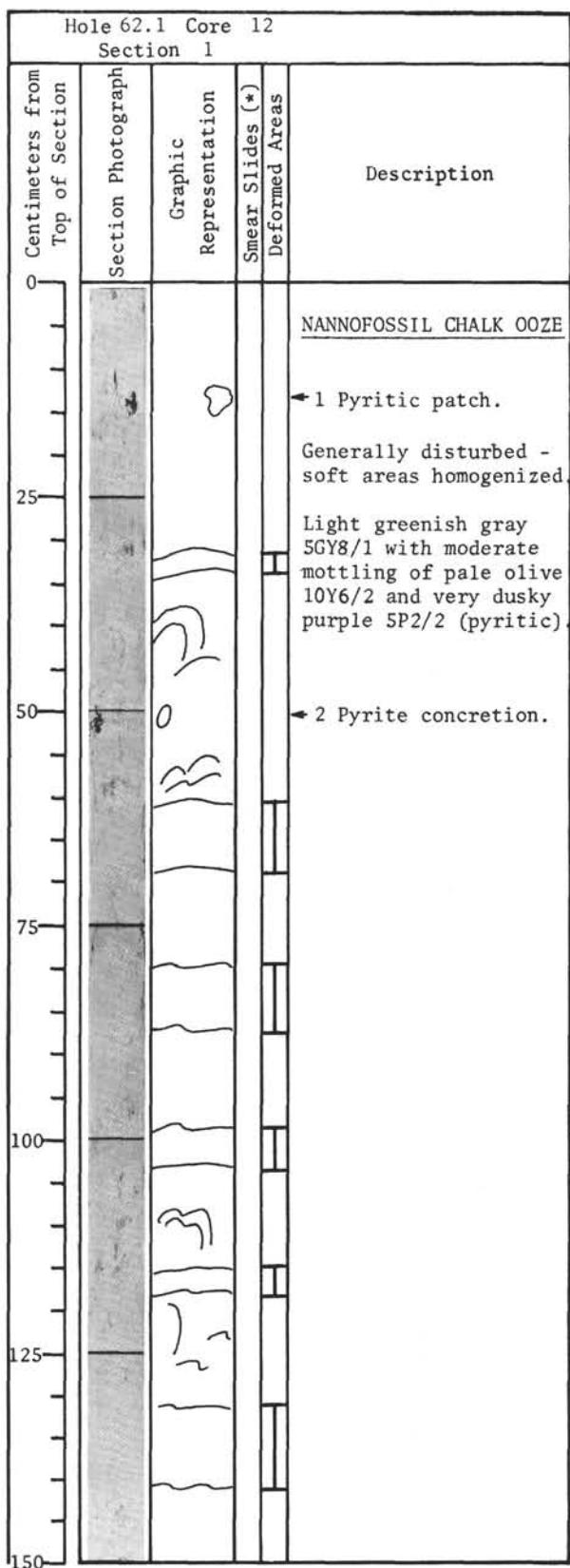


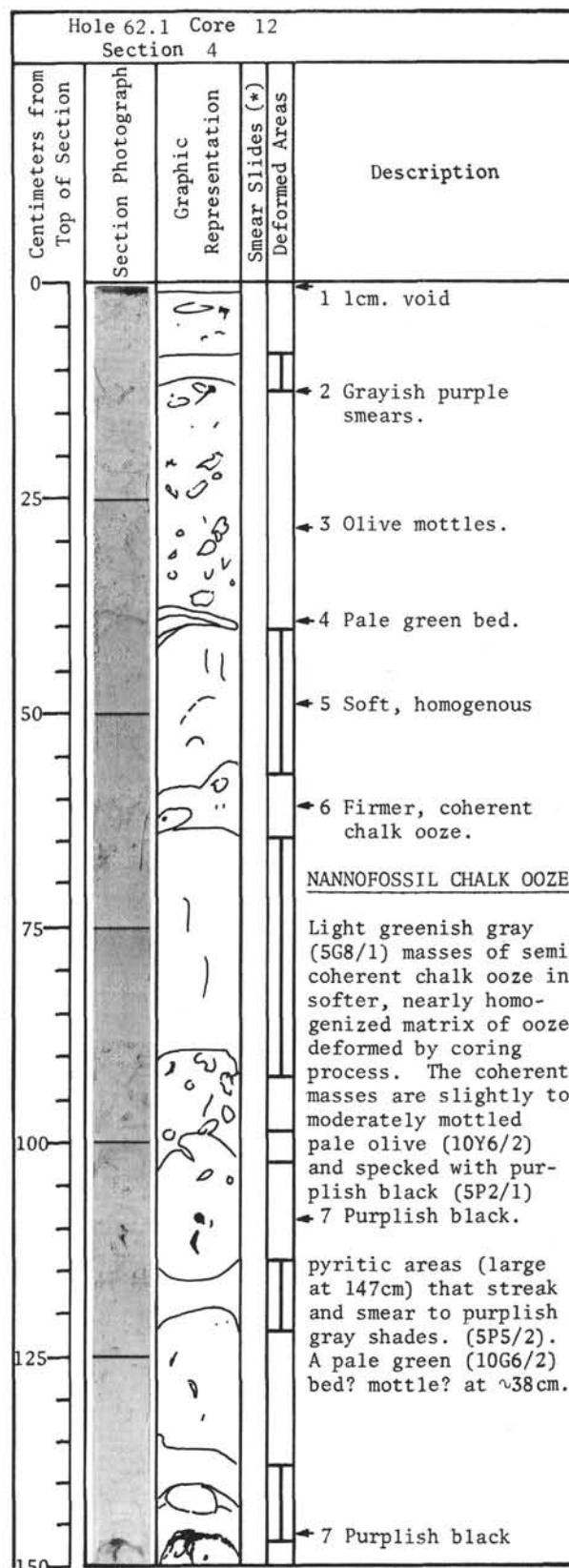
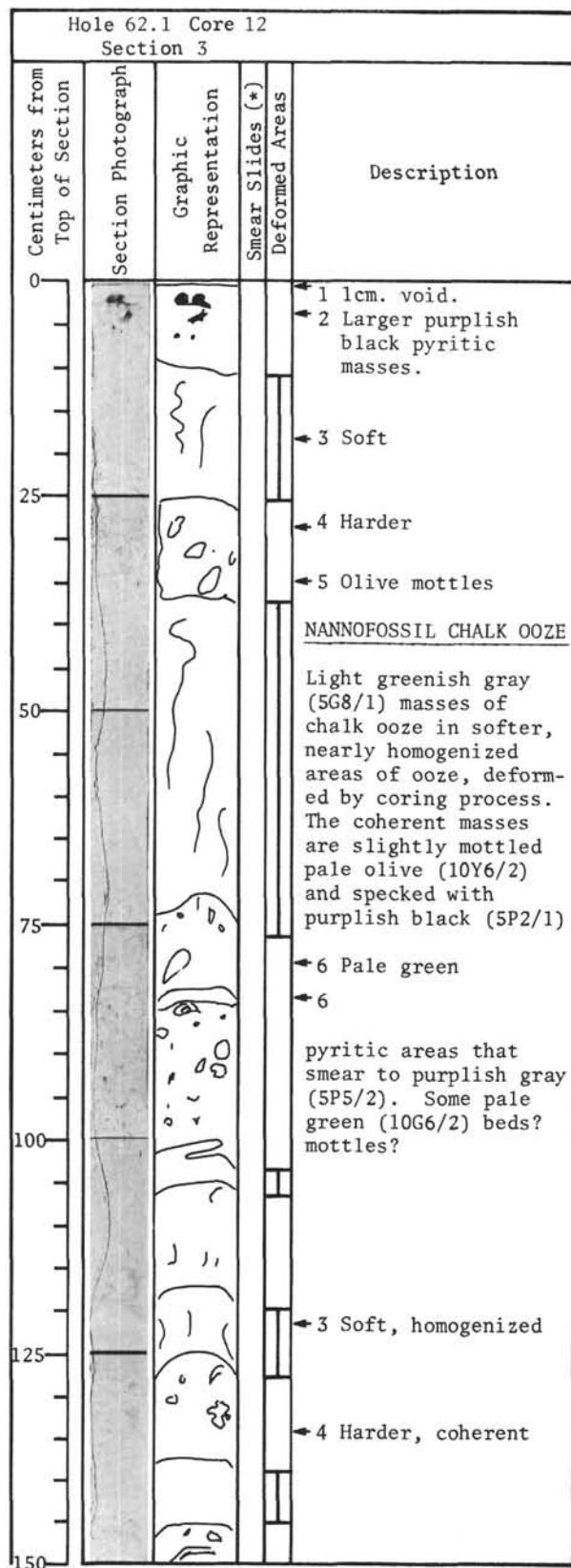


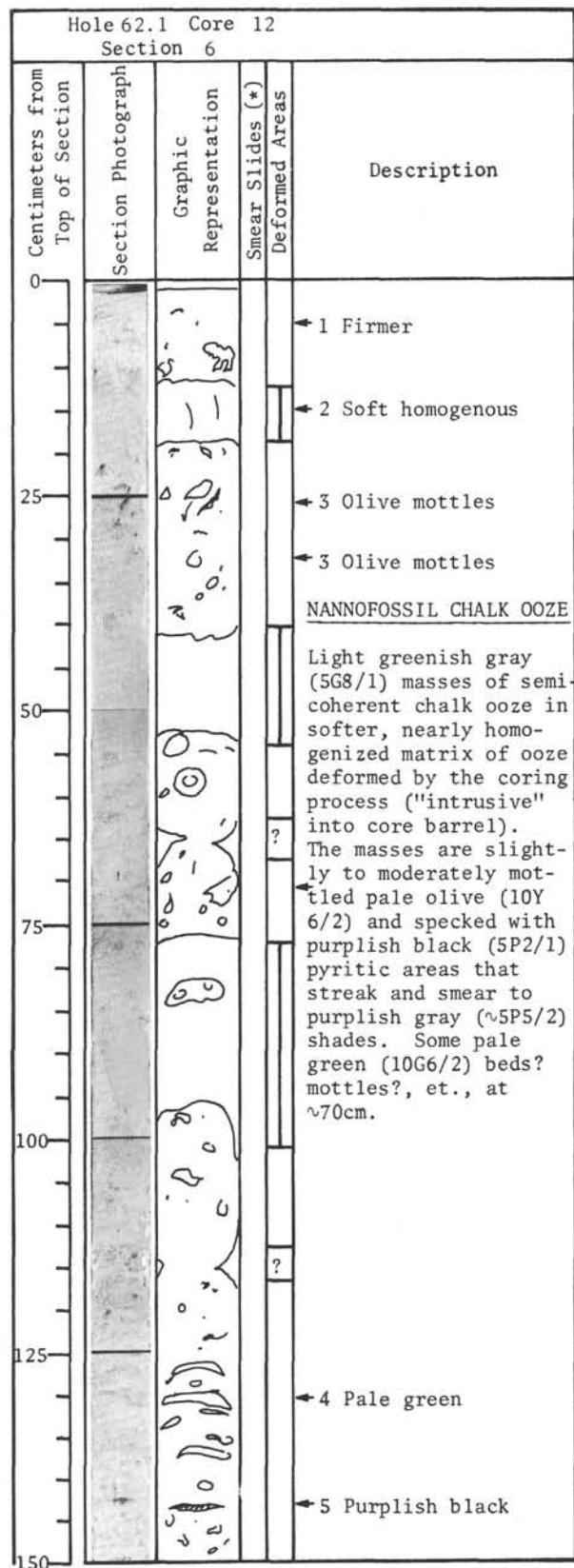
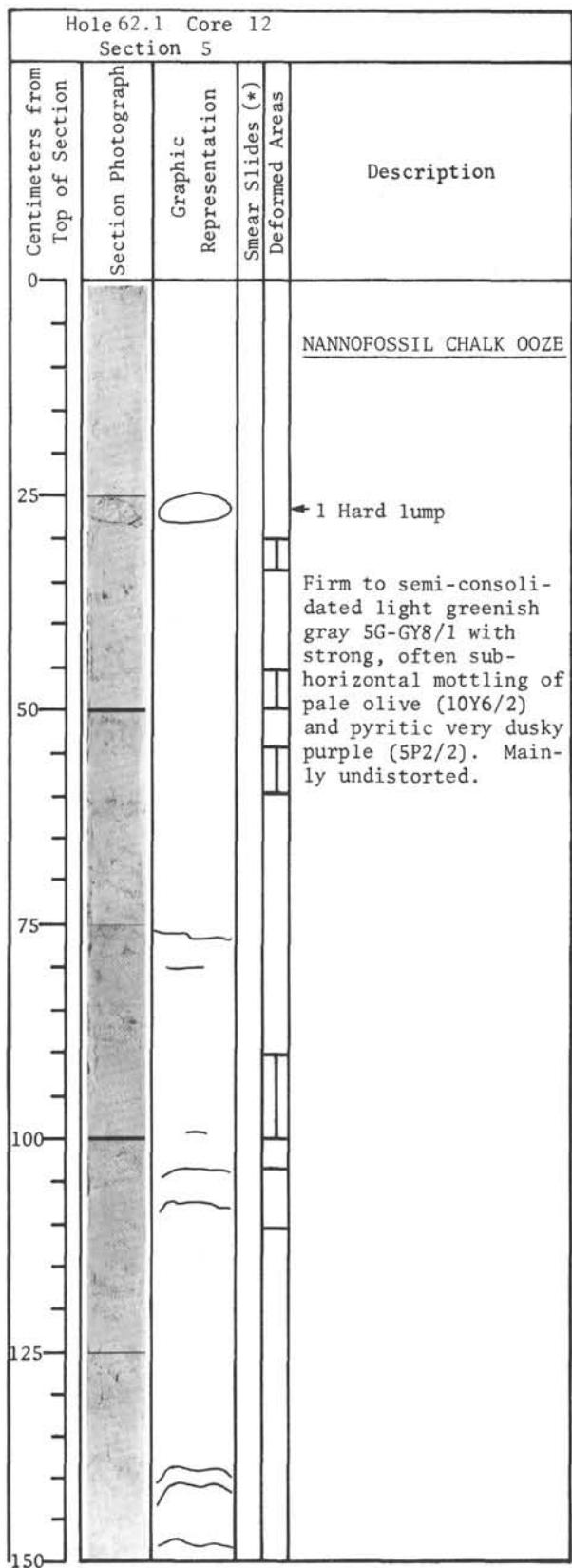
Lithology and biostratigraphy of Core 12, Hole 62.1.

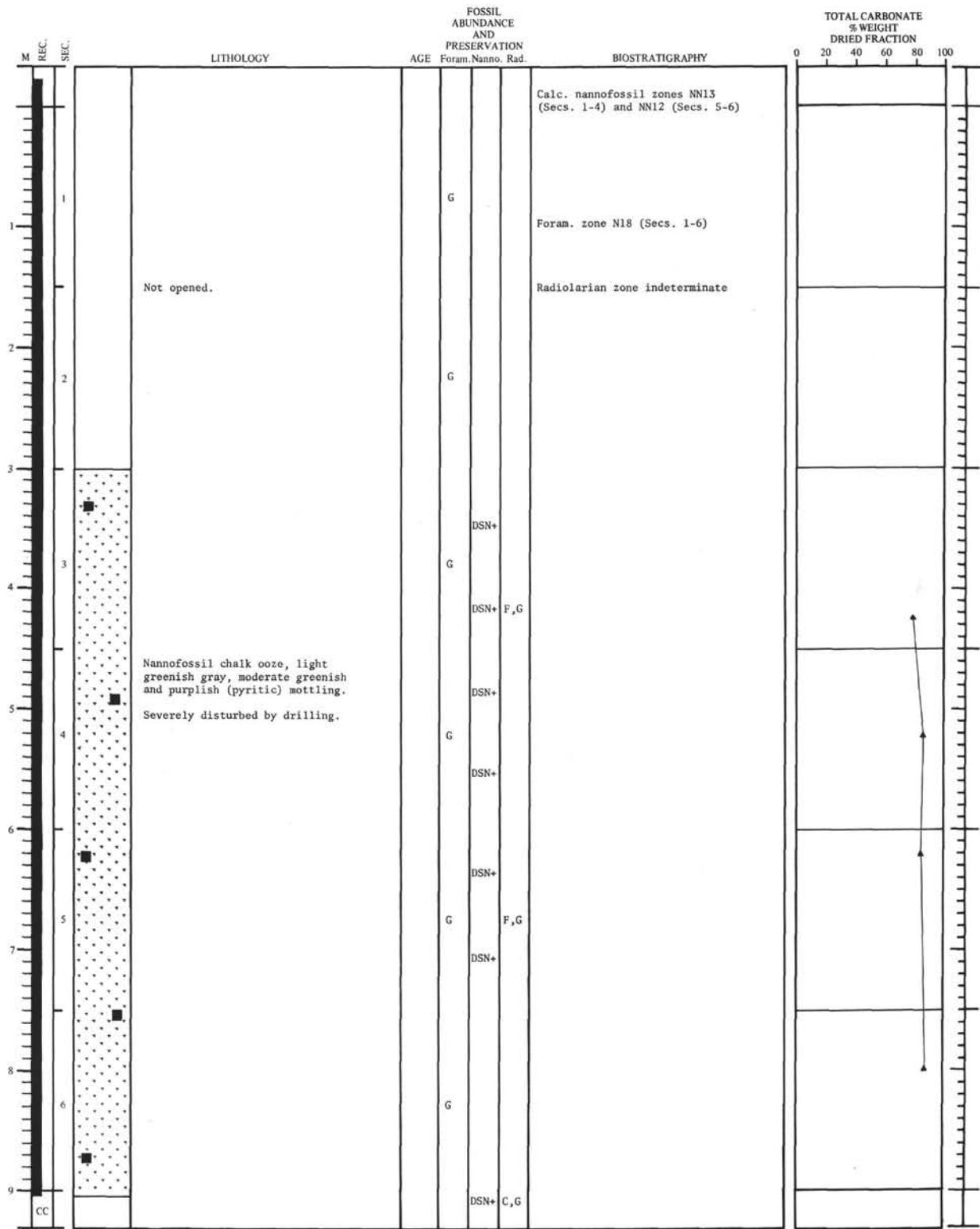


Physical properties of Core 12, Hole 62.1.

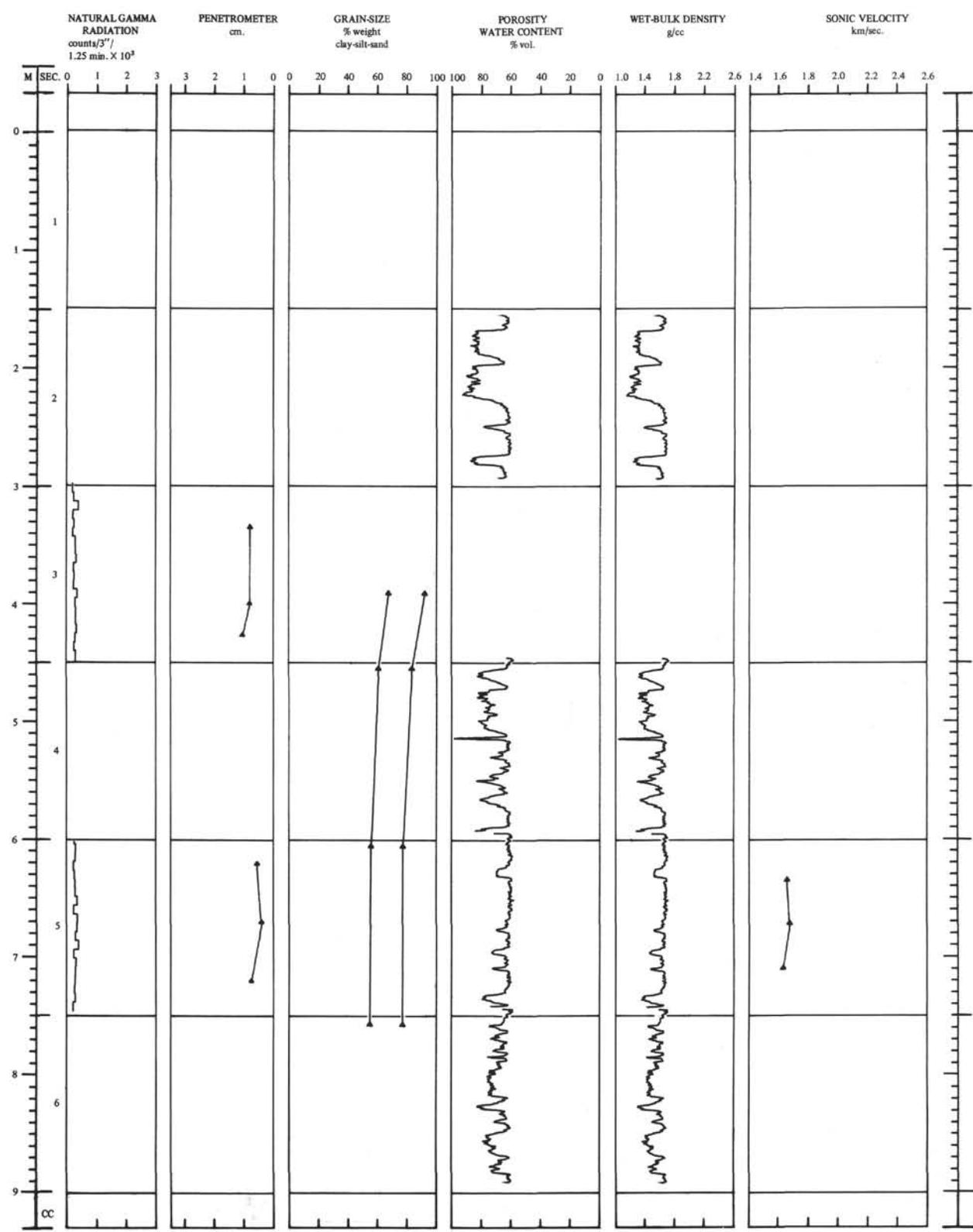




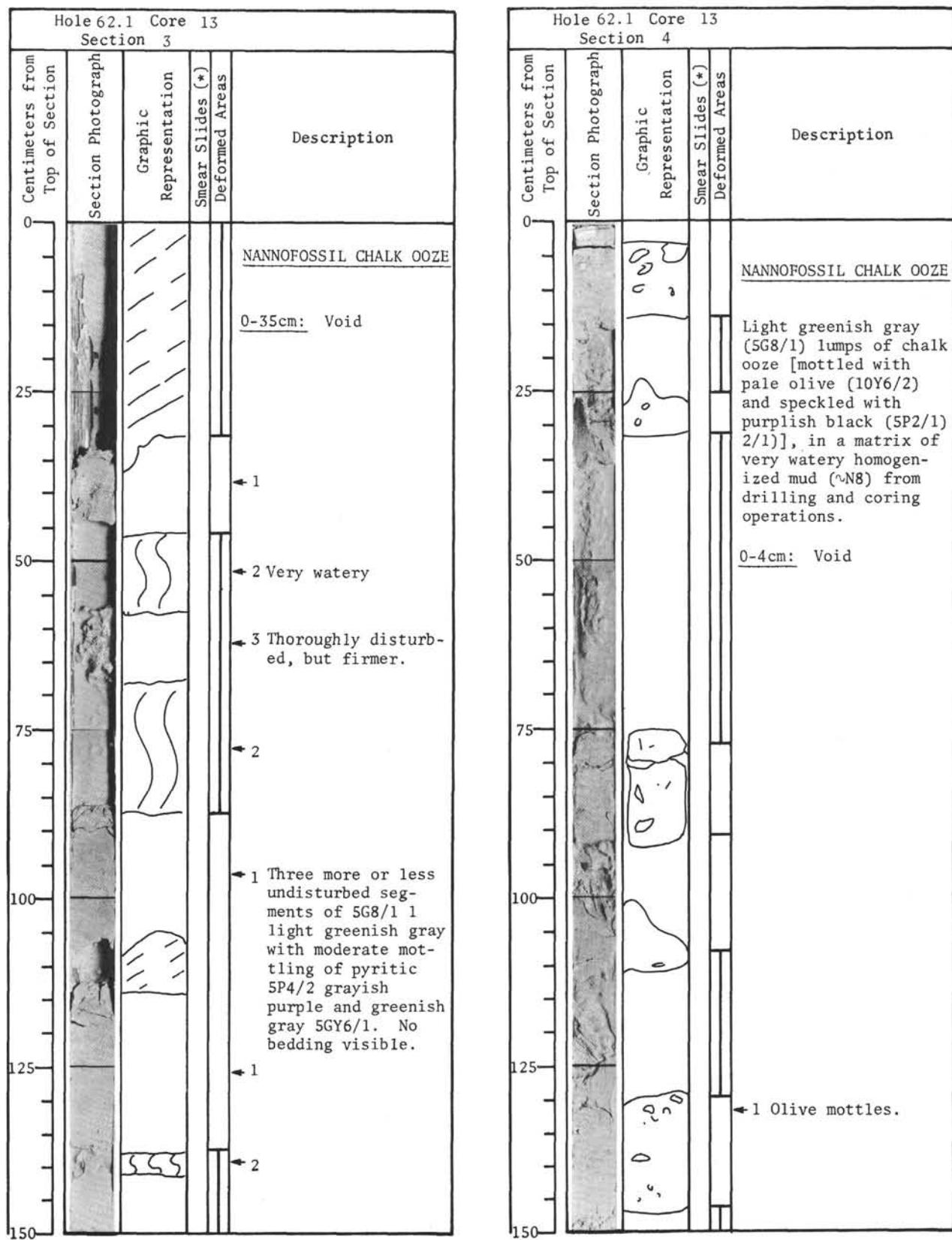


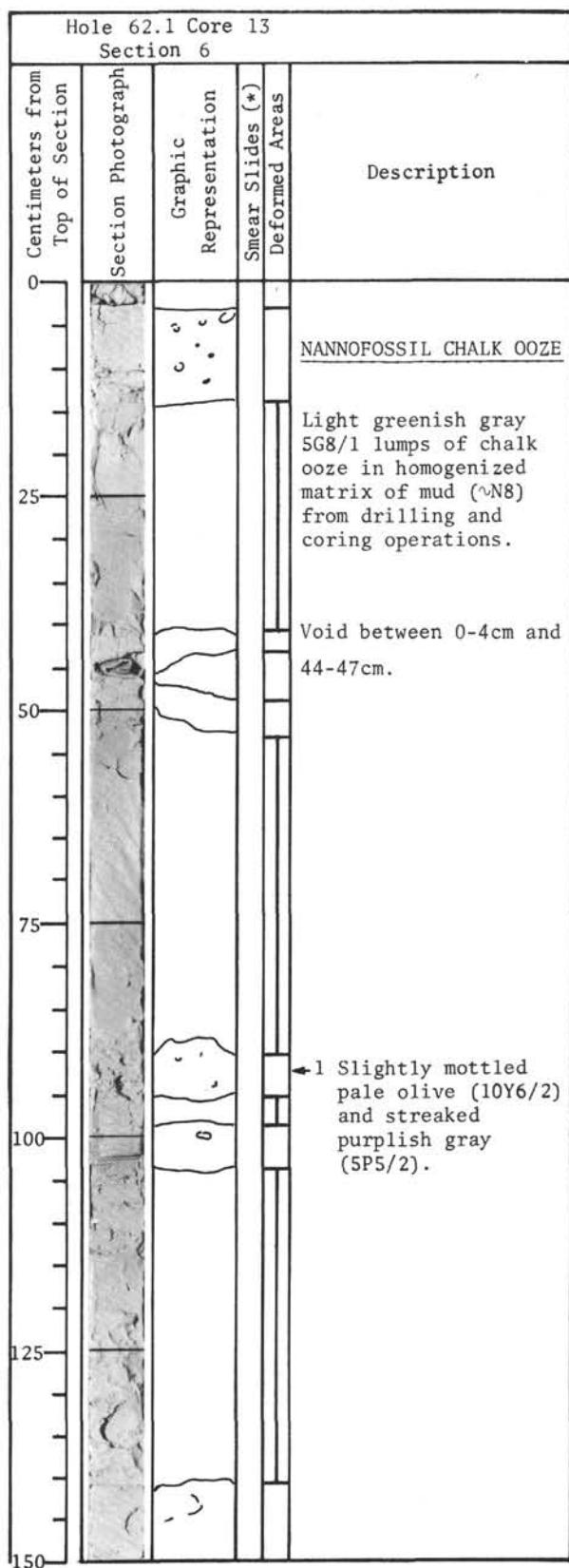
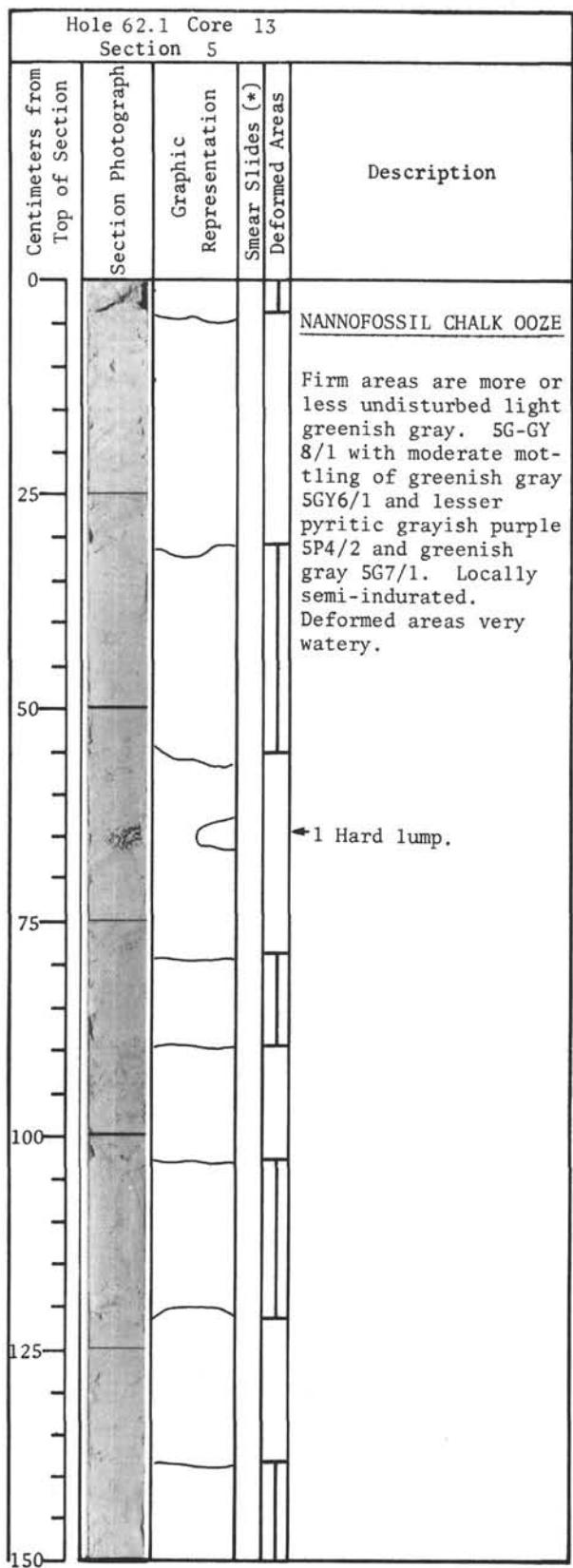


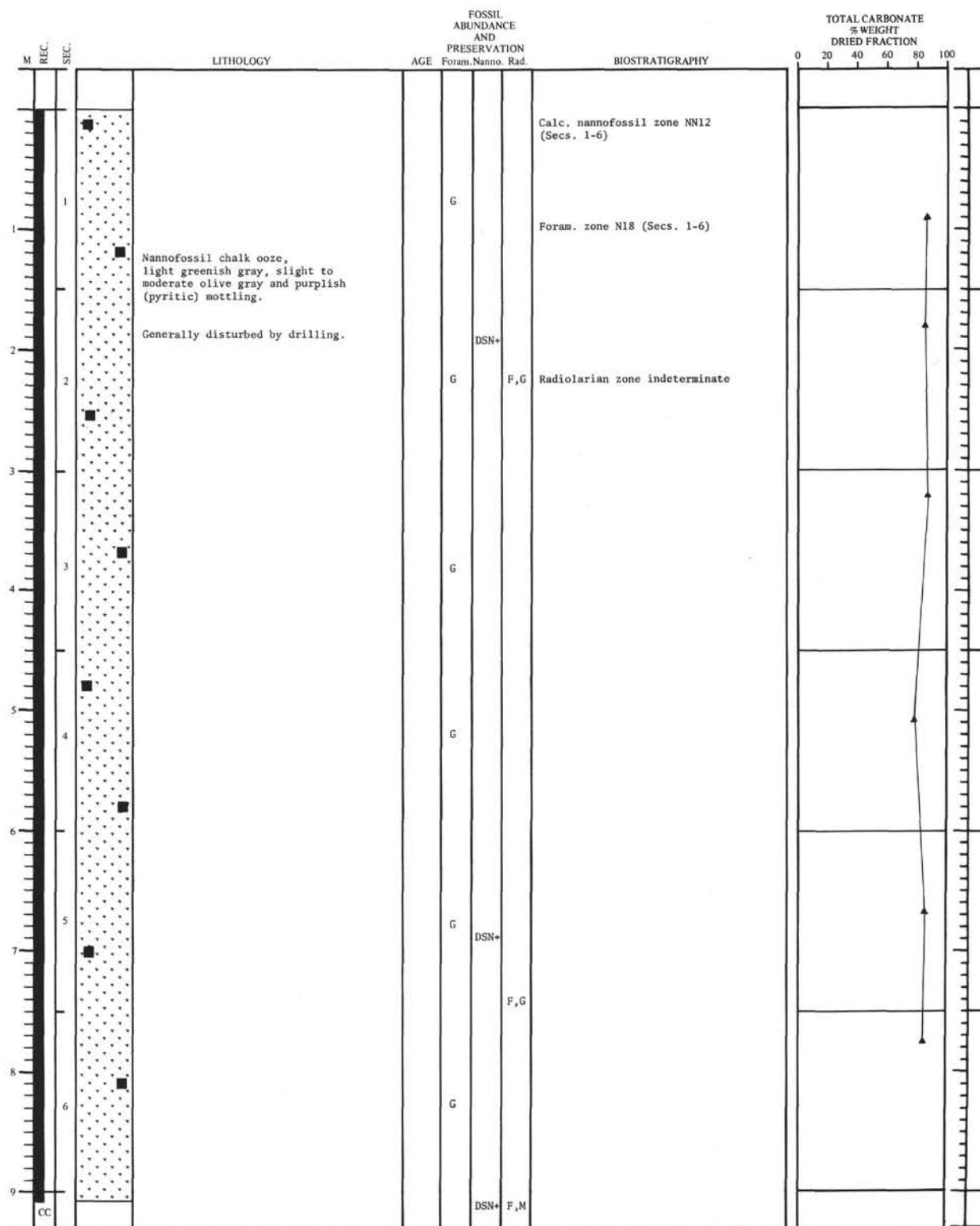
Lithology and biostratigraphy of Core 13, Hole 62.1.



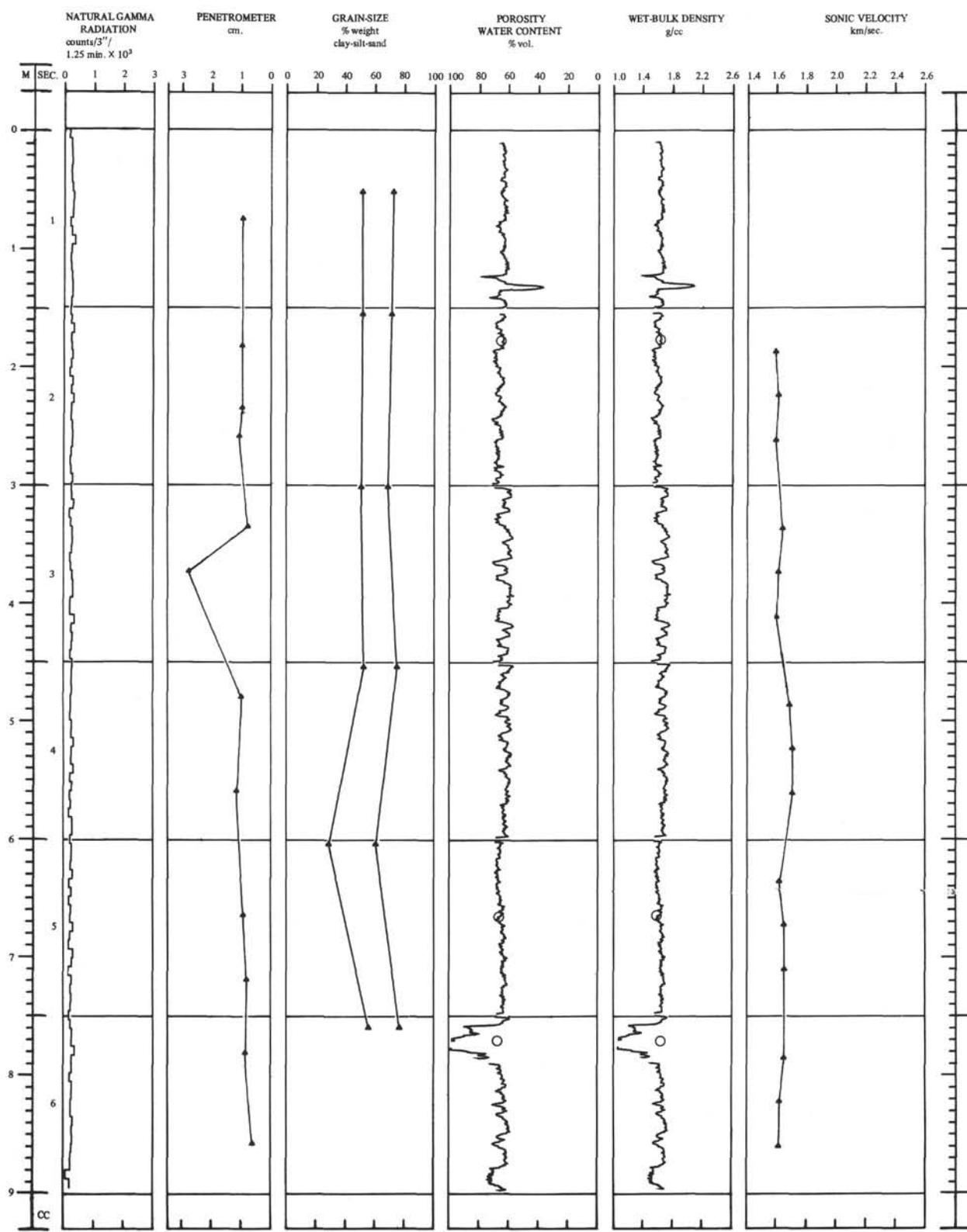
Physical properties of Core 13, Hole 62.1.





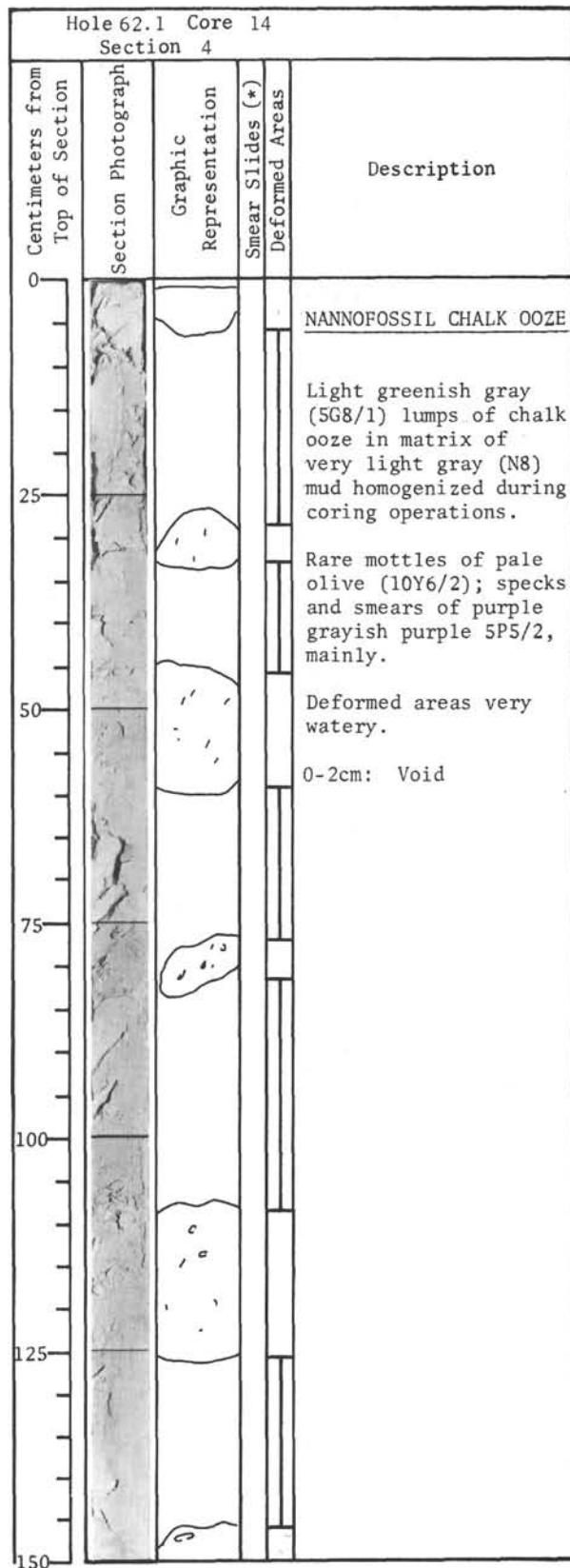
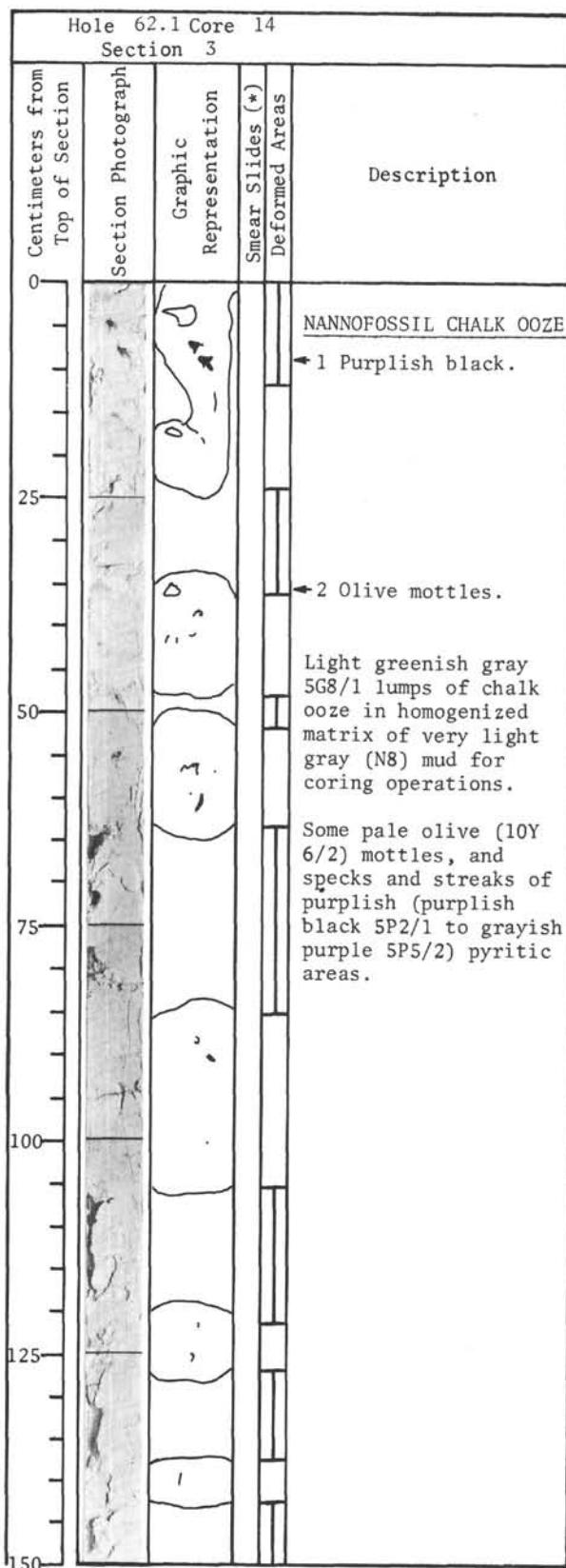


Lithology and biostratigraphy of Core 14, Hole 62.1.



Physical properties of Core 14, Hole 62.1.

Hole 62.1 Core 14 Section 1					Hole 61.1 Core 14 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description					Description				
0									
25									
50									
75									
100									
125									
150									
<u>NANNOFOSSIL CHALK OOZE</u>					<u>NANNOFOSSIL CHALK OOZE</u>				
~6-7 cm					~6-7 cm				
10-12 cm					10-12 cm				
20-25 cm					20-25 cm				
30-35 cm					30-35 cm				
40-45 cm					40-45 cm				
50-55 cm					50-55 cm				
60-65 cm					60-65 cm				
70-75 cm					70-75 cm				
80-85 cm					80-85 cm				
90-95 cm					90-95 cm				
100-105 cm					100-105 cm				
110-115 cm					110-115 cm				
120-125 cm					120-125 cm				
130-135 cm					130-135 cm				
140-145 cm					140-145 cm				
150-155 cm					150-155 cm				
160-165 cm					160-165 cm				
170-175 cm					170-175 cm				
180-185 cm					180-185 cm				
190-195 cm					190-195 cm				
200-205 cm					200-205 cm				
210-215 cm					210-215 cm				
220-225 cm					220-225 cm				
230-235 cm					230-235 cm				
240-245 cm					240-245 cm				
250-255 cm					250-255 cm				
260-265 cm					260-265 cm				
270-275 cm					270-275 cm				
280-285 cm					280-285 cm				
290-295 cm					290-295 cm				
300-305 cm					300-305 cm				
310-315 cm					310-315 cm				
320-325 cm					320-325 cm				
330-335 cm					330-335 cm				
340-345 cm					340-345 cm				
350-355 cm					350-355 cm				
360-365 cm					360-365 cm				
370-375 cm					370-375 cm				
380-385 cm					380-385 cm				
390-395 cm					390-395 cm				
400-405 cm					400-405 cm				
410-415 cm					410-415 cm				
420-425 cm					420-425 cm				
430-435 cm					430-435 cm				
440-445 cm					440-445 cm				
450-455 cm					450-455 cm				
460-465 cm					460-465 cm				
470-475 cm					470-475 cm				
480-485 cm					480-485 cm				
490-495 cm					490-495 cm				
500-505 cm					500-505 cm				
510-515 cm					510-515 cm				
520-525 cm					520-525 cm				
530-535 cm					530-535 cm				
540-545 cm					540-545 cm				
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560-565 cm					560-565 cm				
570-575 cm					570-575 cm				
580-585 cm					580-585 cm				
590-595 cm					590-595 cm				
600-605 cm					600-605 cm				
610-615 cm					610-615 cm				
620-625 cm					620-625 cm				
630-635 cm					630-635 cm				
640-645 cm					640-645 cm				
650-655 cm					650-655 cm				
660-665 cm					660-665 cm				
670-675 cm					670-675 cm				
680-685 cm					680-685 cm				
690-695 cm					690-695 cm				
700-705 cm					700-705 cm				
710-715 cm					710-715 cm				
720-725 cm					720-725 cm				
730-735 cm					730-735 cm				
740-745 cm					740-745 cm				
750-755 cm					750-755 cm				
760-765 cm					760-765 cm				
770-775 cm					770-775 cm				
780-785 cm					780-785 cm				
790-795 cm					790-795 cm				
800-805 cm					800-805 cm				
810-815 cm					810-815 cm				
820-825 cm					820-825 cm				
830-835 cm					830-835 cm				
840-845 cm					840-845 cm				
850-855 cm					850-855 cm				
860-865 cm					860-865 cm				
870-875 cm					870-875 cm				
880-885 cm					880-885 cm				
890-895 cm					890-895 cm				
900-905 cm					900-905 cm				
910-915 cm					910-915 cm				
920-925 cm					920-925 cm				
930-935 cm					930-935 cm				
940-945 cm					940-945 cm				
950-955 cm					950-955 cm				
960-965 cm					960-965 cm				
970-975 cm					970-975 cm				
980-985 cm					980-985 cm				
990-995 cm					990-995 cm				
1000-1005 cm					1000-1005 cm				
1010-1015 cm					1010-1015 cm				
1020-1025 cm					1020-1025 cm				
1030-1035 cm					1030-1035 cm				
1040-1045 cm					1040-1045 cm				
1050-1055 cm					1050-1055 cm				
1060-1065 cm					1060-1065 cm				
1070-1075 cm					1070-1075 cm				
1080-1085 cm					1080-1085 cm				
1090-1095 cm					1090-1095 cm				
1100-1105 cm					1100-1105 cm				
1110-1115 cm					1110-1115 cm				
1120-1125 cm					1120-1125 cm				
1130-1135 cm					1130-1135 cm				
1140-1145 cm					1140-1145 cm				
1150-1155 cm					1150-1155 cm				
1160-1165 cm					1160-1165 cm				
1170-1175 cm					1170-1175 cm				
1180-1185 cm					1180-1185 cm				
1190-1195 cm					1190-1195 cm				
1200-1205 cm					1200-1205 cm				
1210-1215 cm					1210-1215 cm				
1220-1225 cm					1220-1225 cm				
1230-1235 cm					1230-1235 cm				
1240-1245 cm					1240-1245 cm				
1250-1255 cm					1250-1255 cm				
1260-1265 cm					1260-1265 cm				
1270-1275 cm					1270-1275 cm				
1280-1285 cm					1280-1285 cm				
1290-1295 cm					1290-1295 cm				
1300-1305 cm					1300-1305 cm				
1310-1315 cm					1310-1315 cm				
1320-1325 cm					1320-1325 cm				
1330-1335 cm					1330-1335 cm				
1340-1345 cm					1340-1345 cm				
1350-1355 cm					1350-1355 cm				
1360-1365 cm					1360-1365 cm				
1370-1375 cm					1370-1375 cm				
1380-1385 cm					1380-1385 cm				
1390-1395 cm					1390-1395 cm				
1400-1405 cm					1400-1405 cm				
1410-1415 cm					1410-1415 cm				
1420-1425 cm					1420-1425 cm				
1430-1435 cm					1430-1435 cm				
1440-1445 cm					1440-1445 cm				
1450-1455 cm					1450-1455 cm				
1460-1465 cm					1460-1465 cm				
1470-1475 cm					1470-1475 cm				
1480-1485 cm					1480-1485 cm				
1490-1495 cm					1490-1495 cm				
1500-1505 cm					1500-1505 cm				



Hole 62.1 Core 14 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

No visual description available.

Hole 62.1 Core 14 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

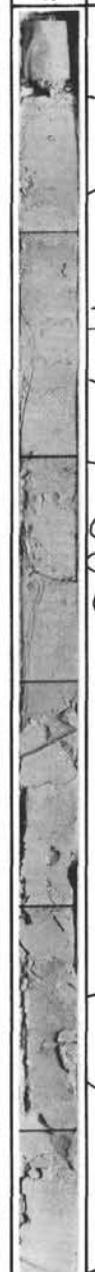
NANNOFOSSIL CHALK Ooze

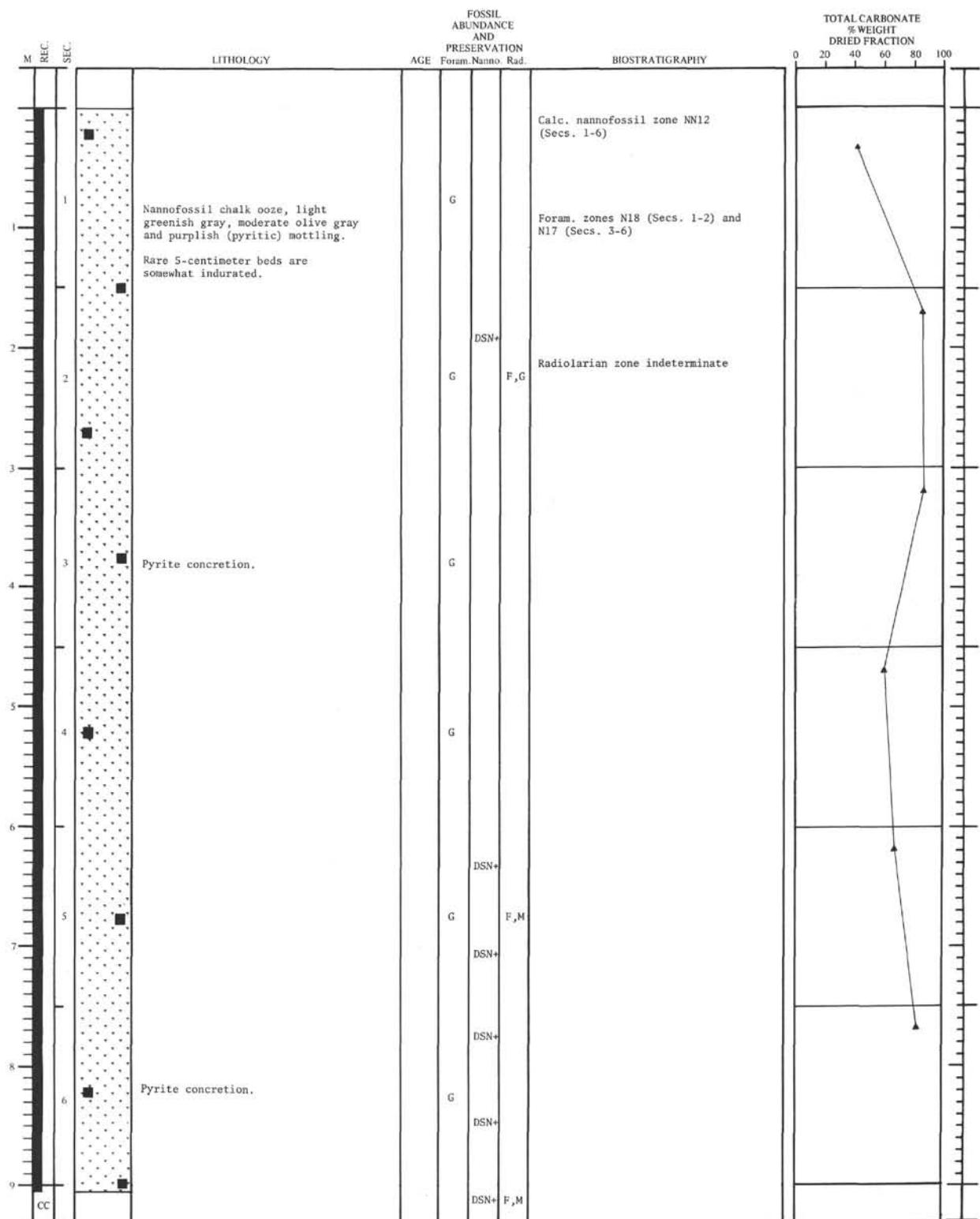
0-10cm: Void
→ 1 Purplish black

Light greenish gray (5G8/1) lumps of chalk ooze in a matrix of very light gray (N8) mud homogenized during coring.

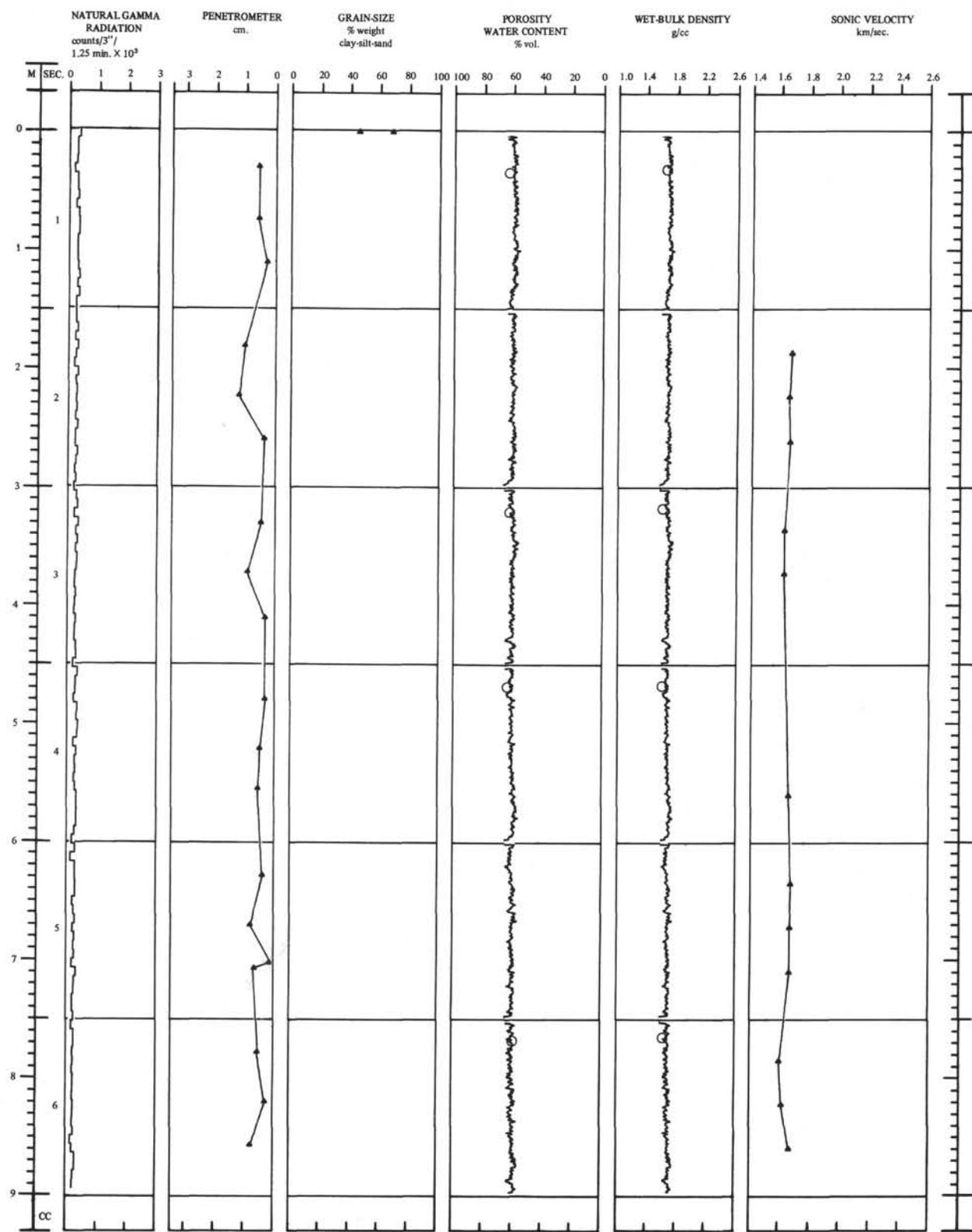
A few mottles of pale olive (10Y6/2), and, near 114cm, of pale green (10G 6/2). Specks of purplish black (5P2/1) pyritic areas.

Deformed areas very watery.





Lithology and biostratigraphy of Core 15, Hole 62.1.

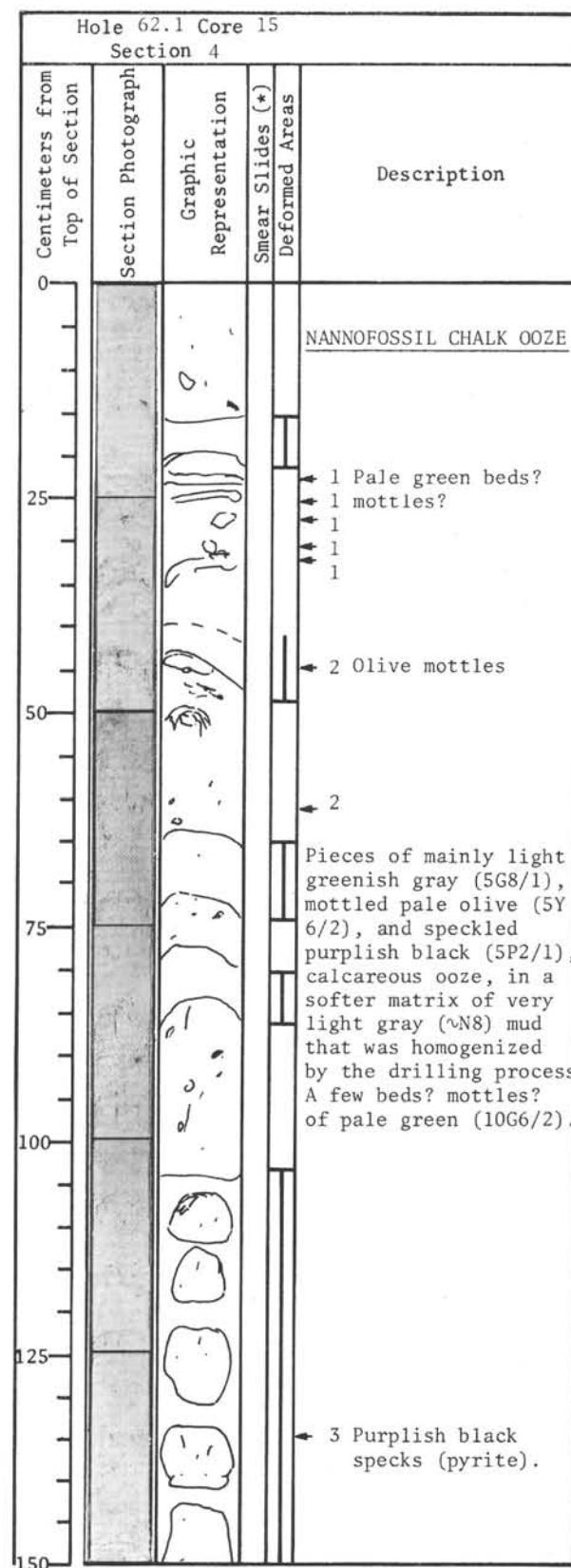
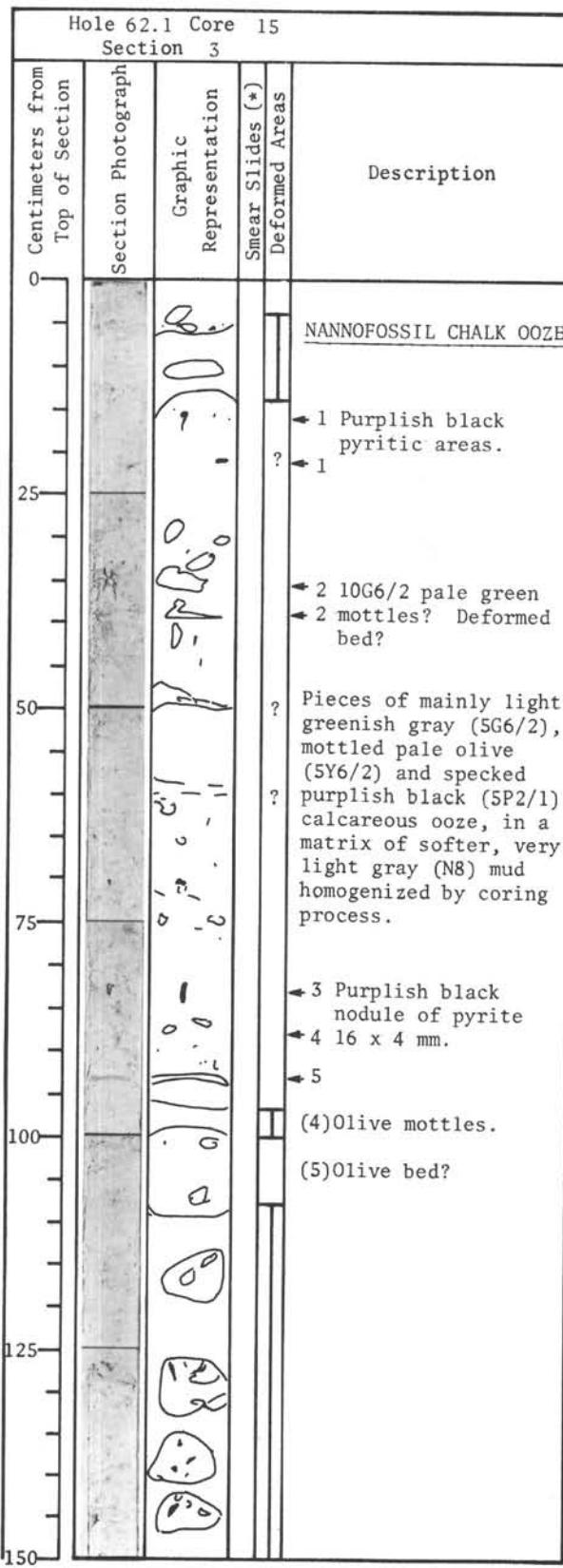


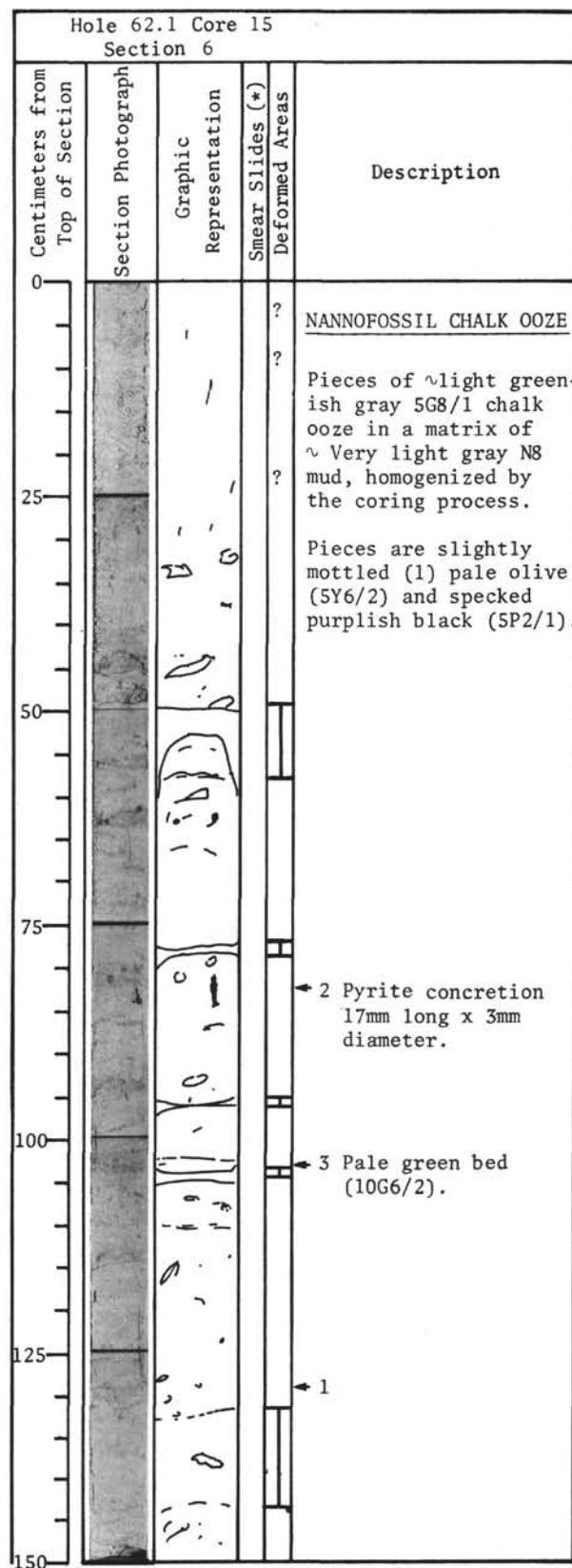
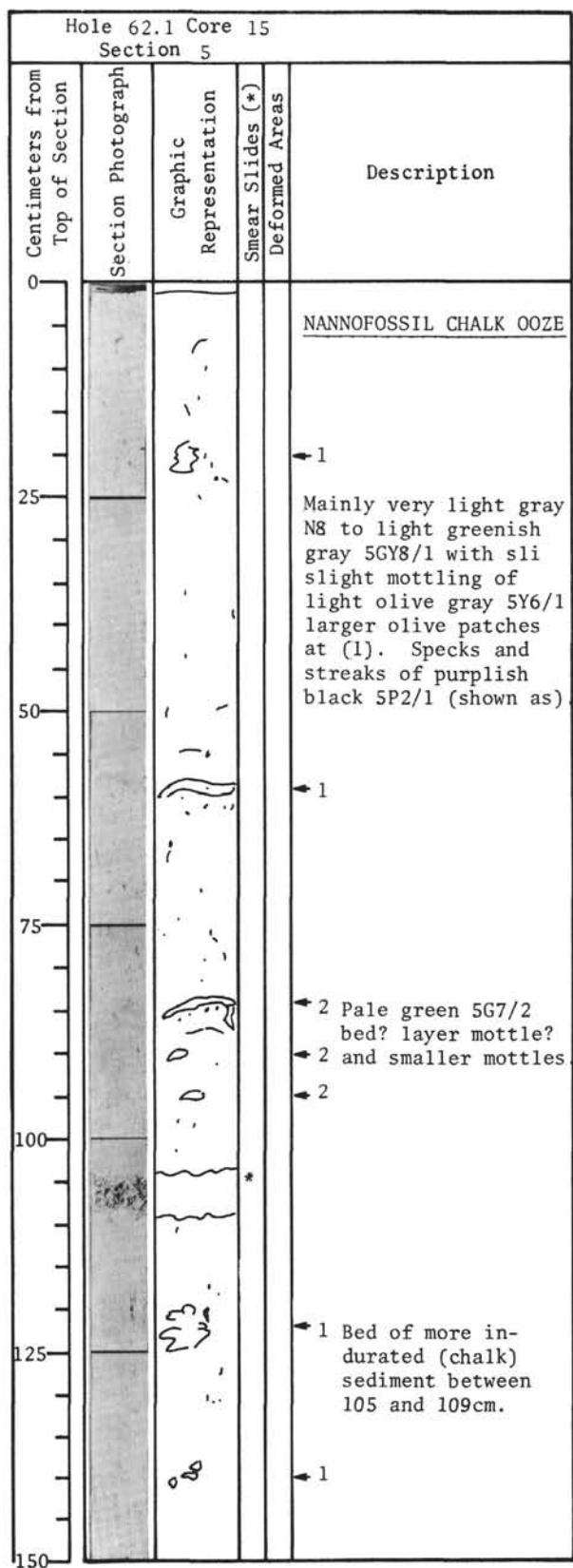
Physical properties of Core 15, Hole 62.1.

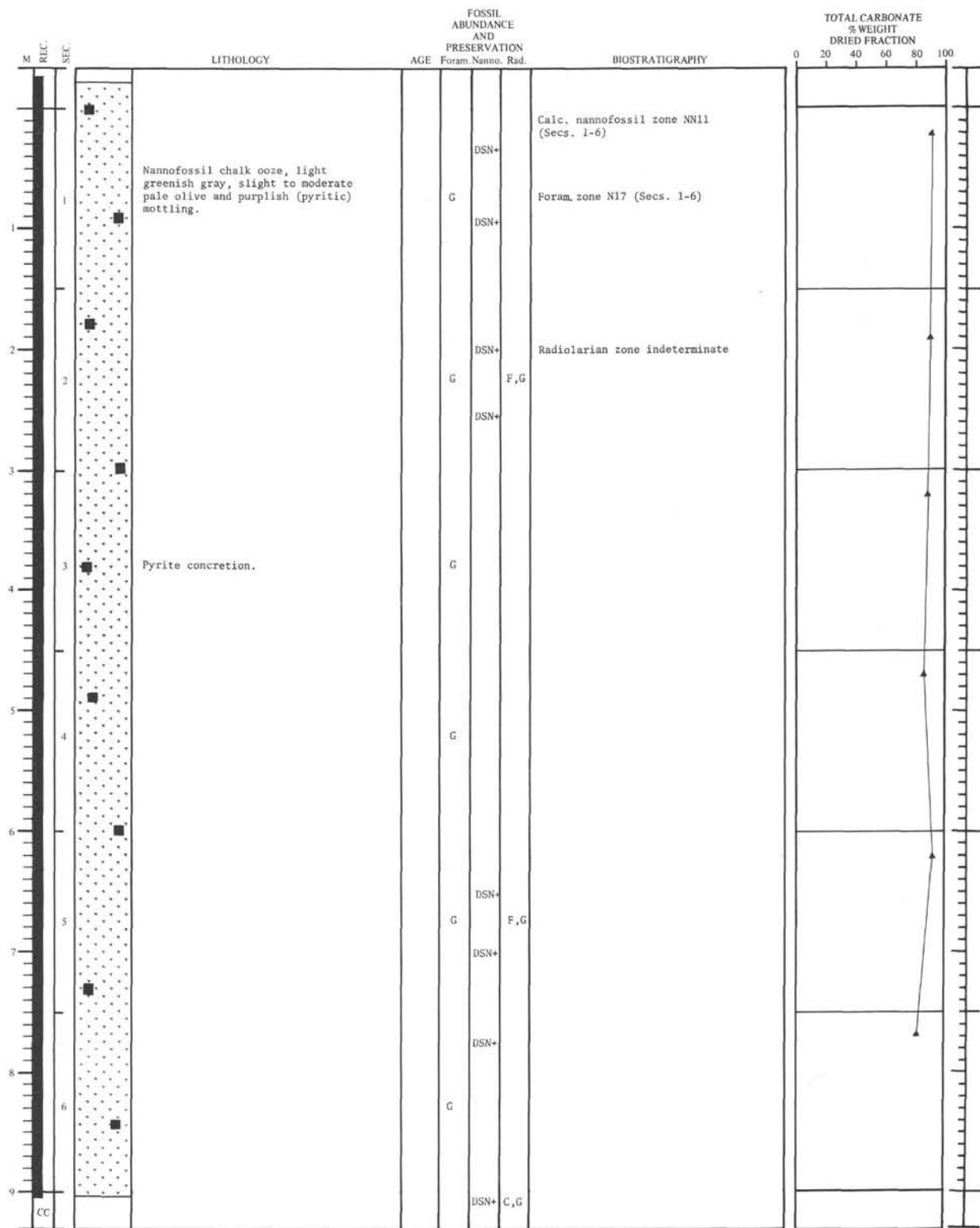
Hole 62.1 Core 15 Section 1					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK OOZE</u>
25		Soft			Fairly uniform partly firm light greenish gray 5GY8/1 with moderate mottling of pale olive gray 5Y6/2 and very dusky purple 5P2/1.
50					Soft areas homogenized by drilling.
75					
100					→ 1 Rare bands and patches of pale green 10G6/2.
125		Soft			
150)			

Hole 62.1 Core 15
Section 2

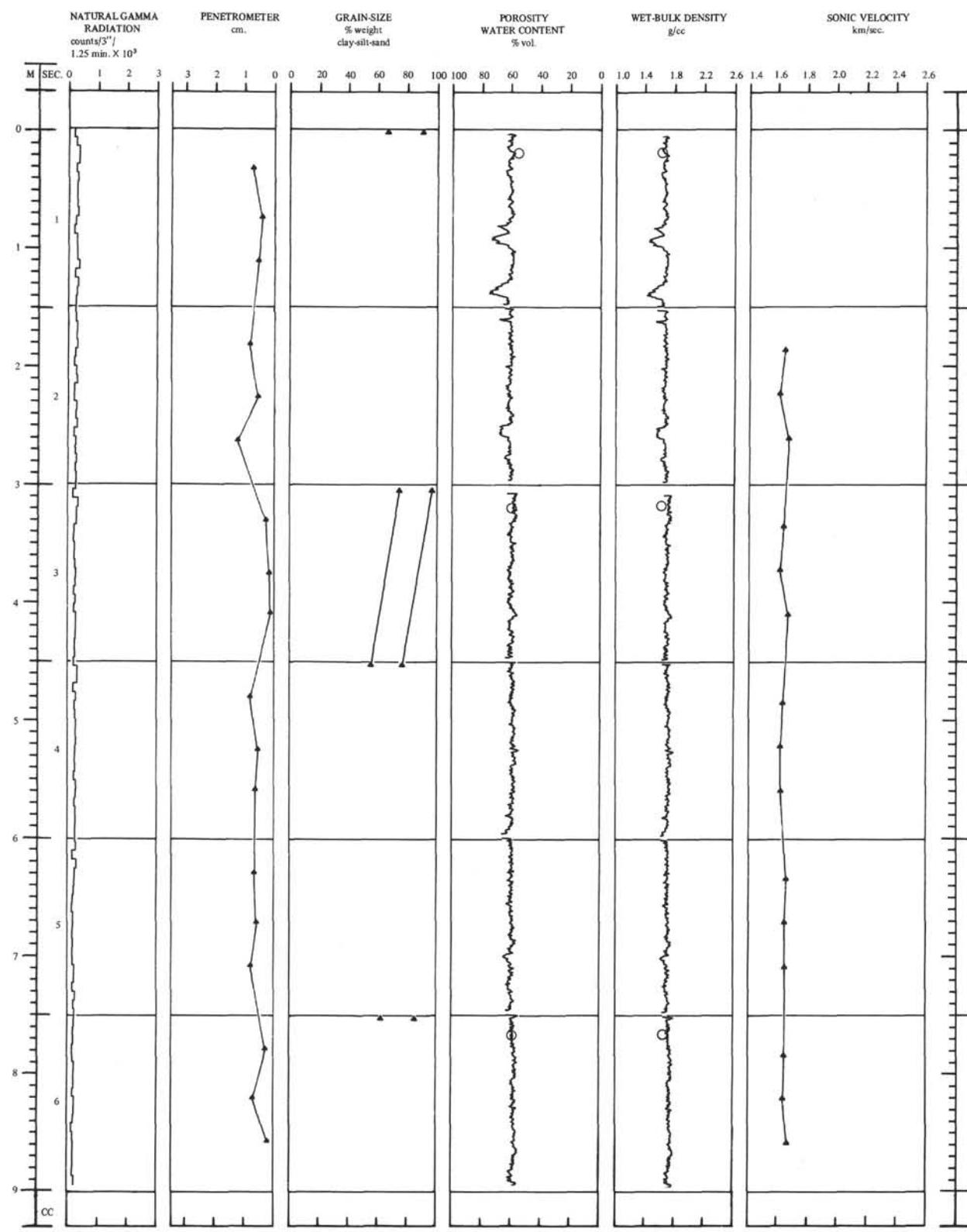
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				<u>NANNOFOSSIL CHALK OOZE</u>
25				Mainly very light gray N8 to light greenish gray 5GY8/1 with slight to moderate mottling of light olive gray 5Y6/1 (larger mottles shown at left) and specks and streaks of purplish black 5P2/1 (main ones shown as dot at left).
50				
75				
100				
125				
150				



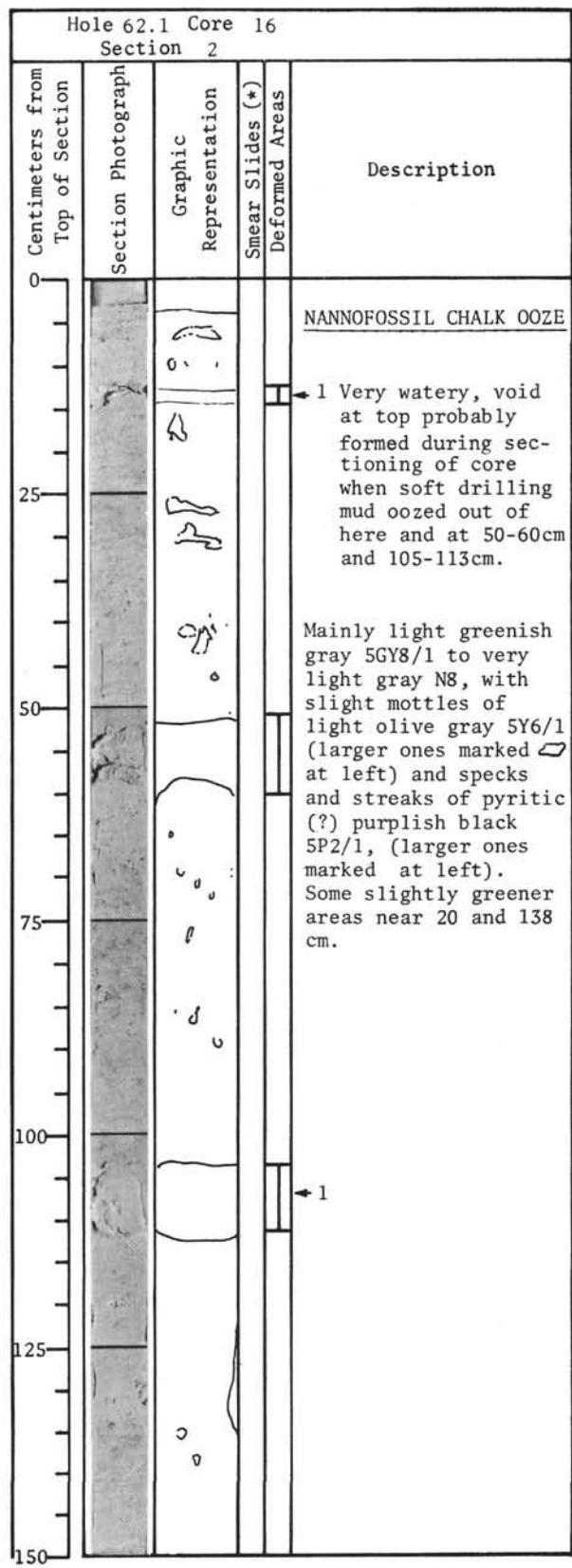
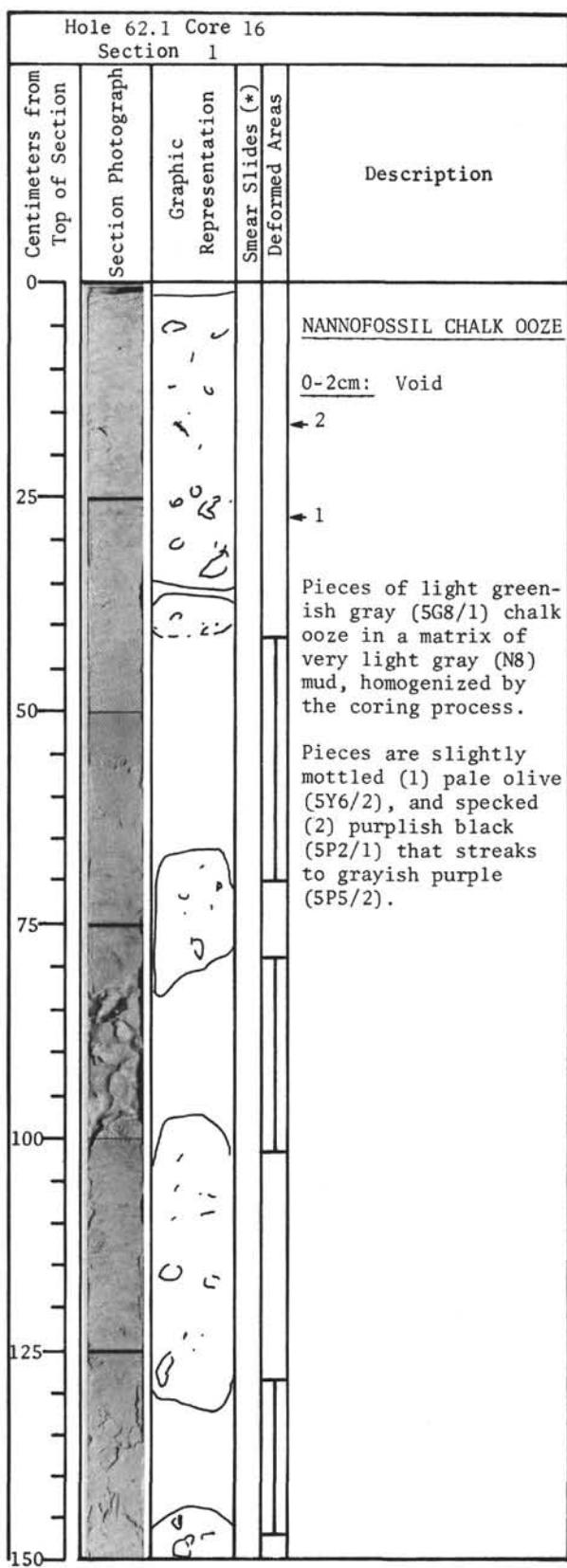




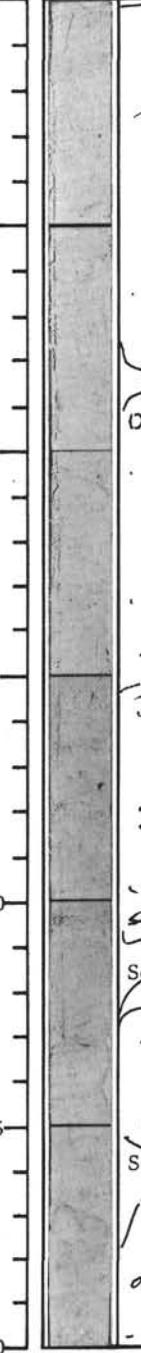
Lithology and biostratigraphy of Core 16, Hole 62.1.



Physical properties of Core 16, Hole 62.1.

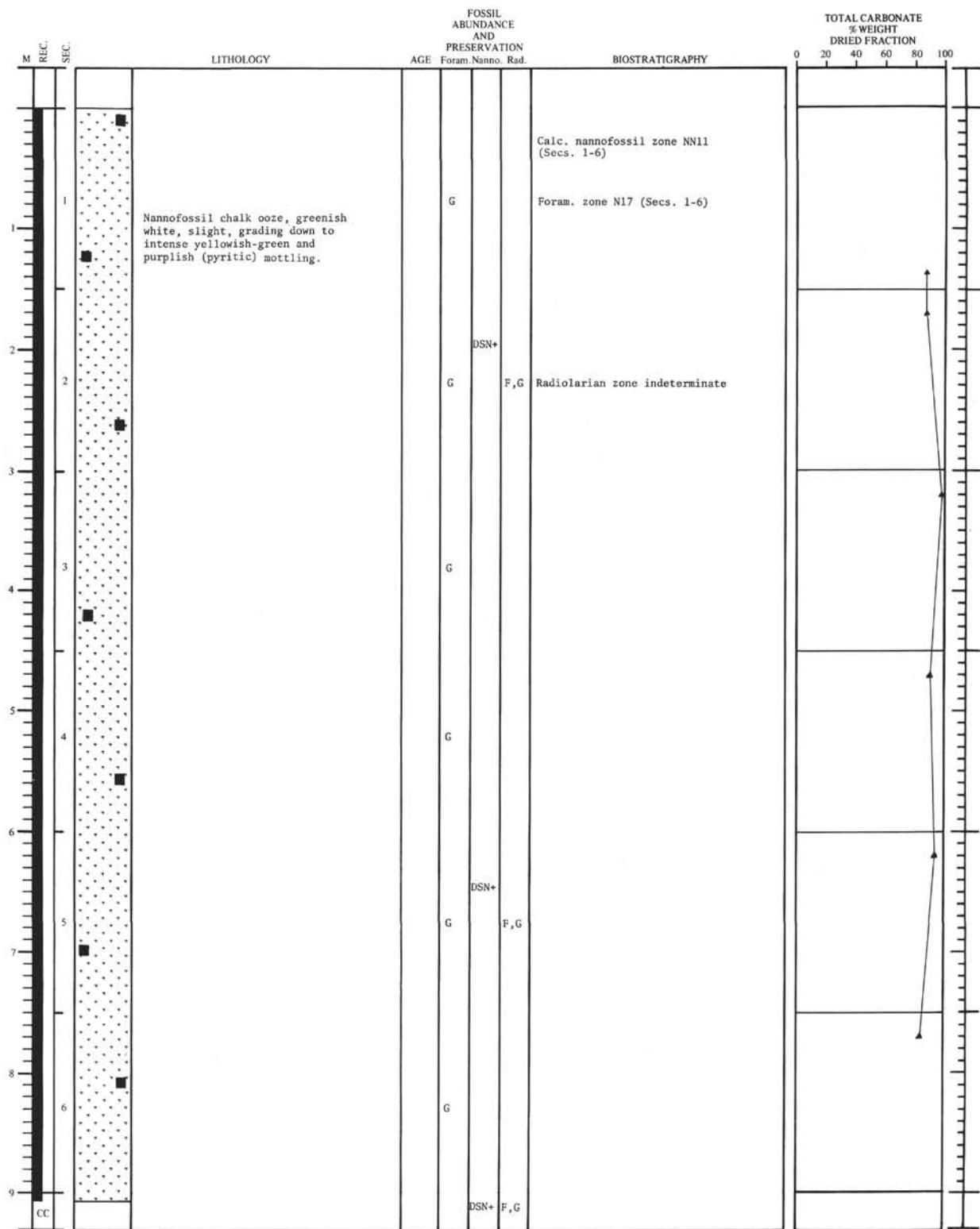


Hole 62.1 Core 16 Section 3			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
		Smear Slides (*) Deformed Areas	
0			<u>NANNOFOSSIL CHALK OOZE</u> <u>0-3cm:</u> Void
25		→ 2	
50			Light greenish gray (5G8/1) chalk ooze, apparently only slightly deformed by coring process. Slight to moderate mottling (1) of pale olive (5Y6/2), and speckled with (2) purplish black (SP2/1) pyritic areas that streak and smear to lighter shades of purple.
75		→ 1 → 3 → 2	
100			Some (3) pale green (10G6/2) beds??? mottles??
125			
150		→ 3	

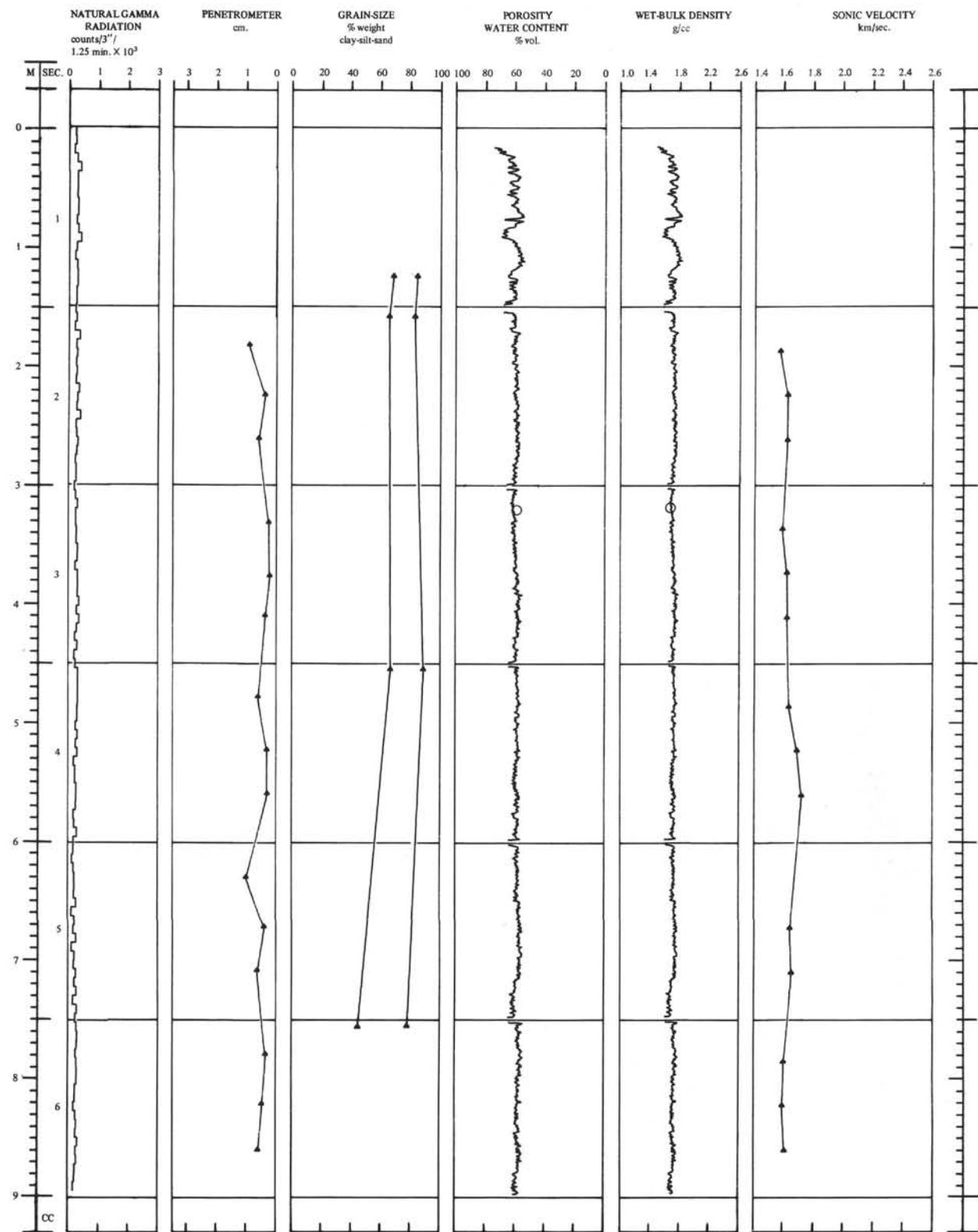
Hole 62.1 Core 16 Section 4			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
		Smear Slides (*) Deformed Areas	
0			<u>NANNOFOSSIL CHALK OOZE</u>
25			Light greenish gray (5G8/1) chalk ooze, apparently only slightly deformed by coring process except below 105cm. Slight to moderate mottling (1) of pale olive
50		→ 1 ?	
75		→ 1	(5Y6/2), (2) pale green (beds? mottles?) (10G6/2), and streaked and specked (3) purplish black (SP2/1) with pyritic areas.
100			These smear to ~ grayish purple (SP5/2).
125		?	
150		→ 3	<u>0-2cm:</u> Void

Hole 62.1 Core 16 Section 5					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					
25					
50					
75					
100					
125					
150					

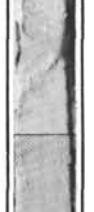
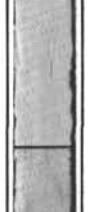
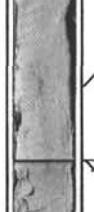
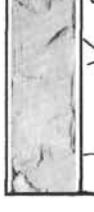
Hole 62.1 Core 16 Section 6					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					
25					
50					
75					
100					
125					
150					



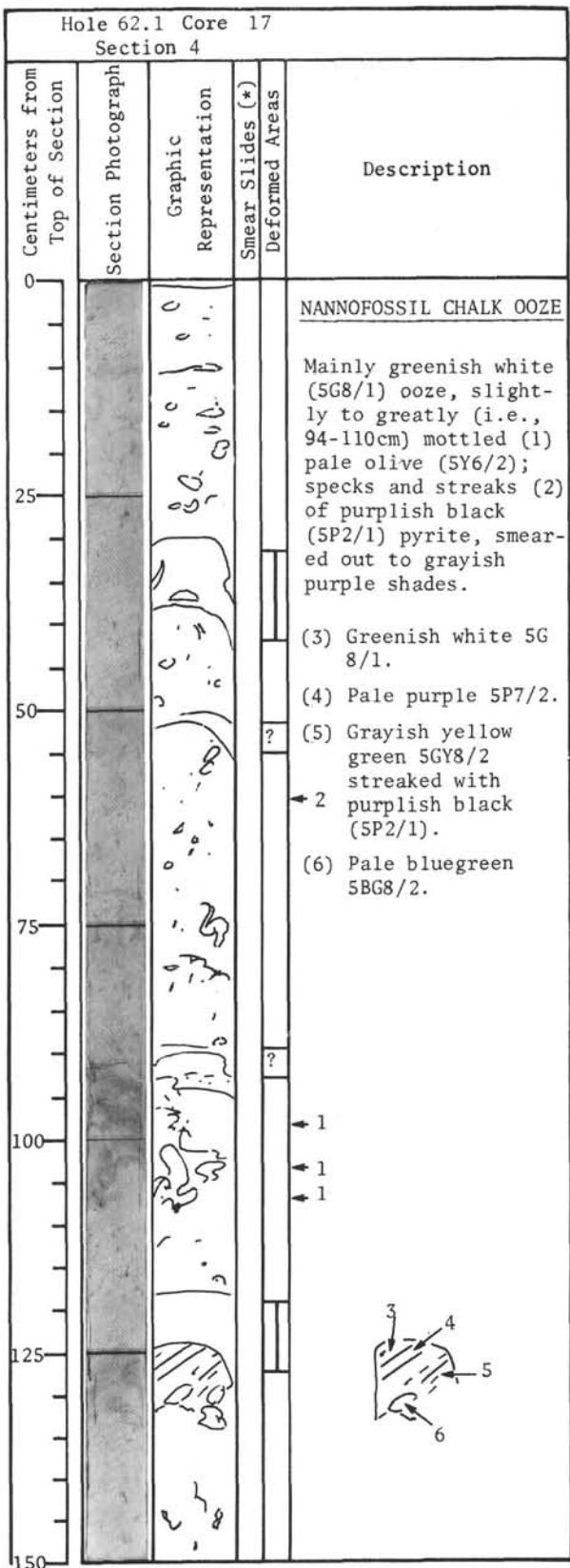
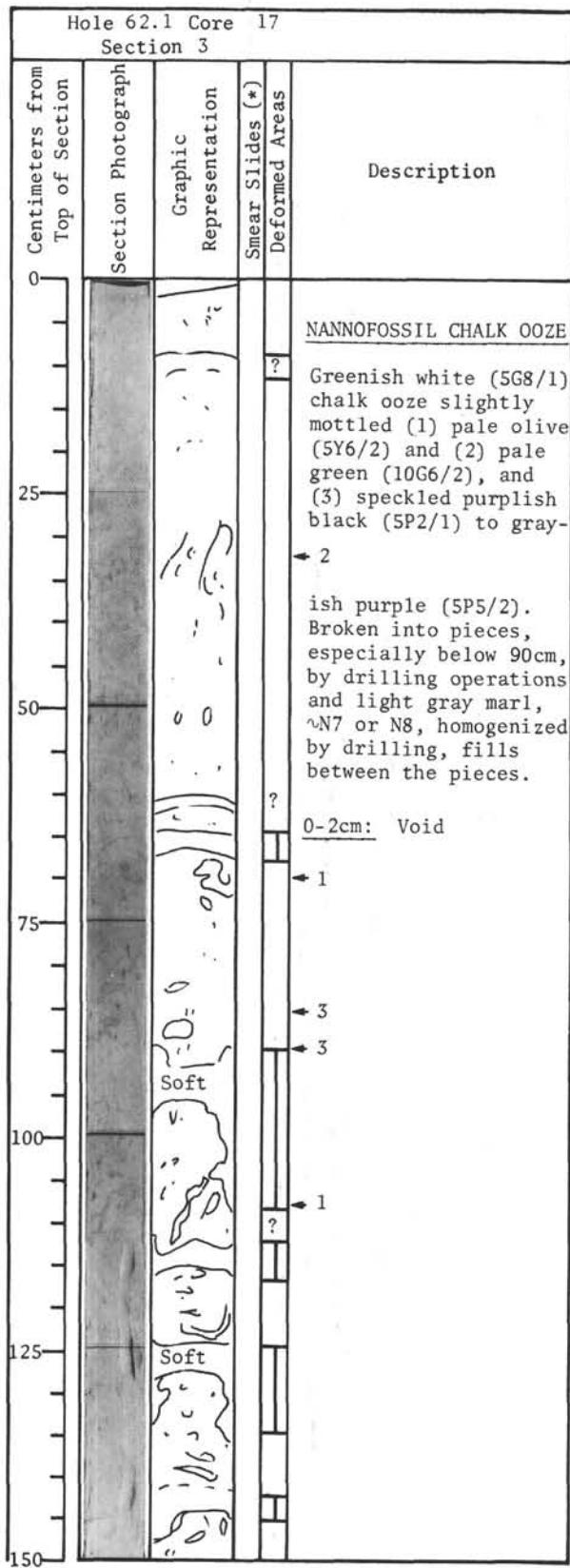
Lithology and biostratigraphy of Core 17, Hole 62.1.



Physical properties of Core 17, Hole 62.1.

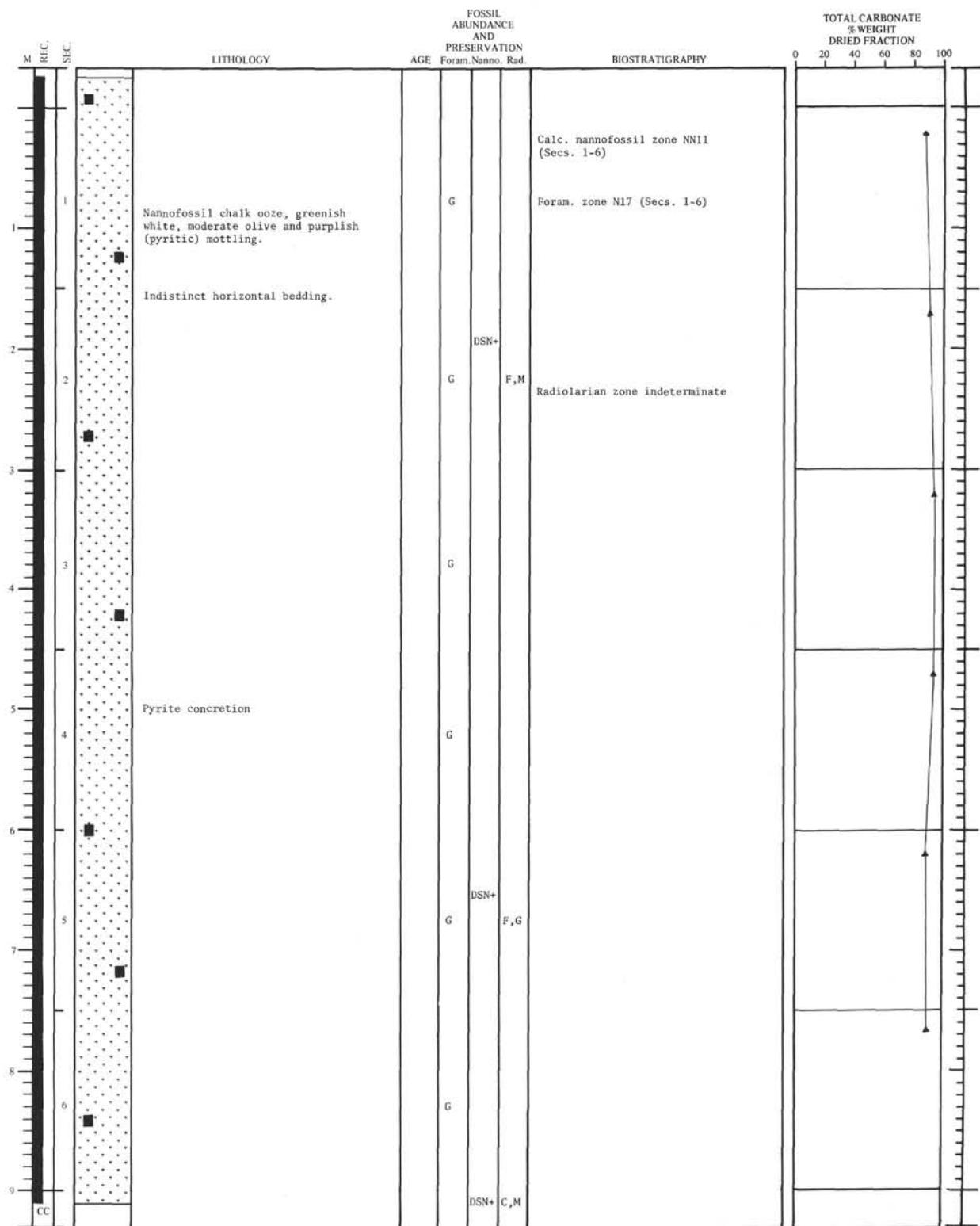
Hole 62.1 Core 17 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				→ 1 Very watery at the top. <u>NANNOFOSSIL CHALK OOZE</u>
25		Very Soft		Greenish white (5G9/1) soft ooze lumps in an even softer matrix of light gray (N7 or N8) mud homogenized by the coring process. Some faint mottles of (2) pale olive 5Y6/2 and a few specks of (3) purple (5P2/1 to 5/2).
50			?	
75		Very Soft	?	
100		Soft	?	
125		Soft	→ 2	
150		Soft	→ 3	

Hole 62.1 Core 17 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				<u>NANNOFOSSIL CHALK OOZE</u>
25			?	→ 1
50			?	Mainly (1) light greenish gray 5GY8/1, with slight to moderate mottles of (2) light olive gray 5Y6/1 (marked at left) and streaks of pyritic? Purplish black 5P2/1.
75			?	→ 2
100			?	Some areas (3) have so many small specks and streaks they appear
125			?	→ 3 grayish purple 5P4/2.
150			?	→ 3 → 2 → 3

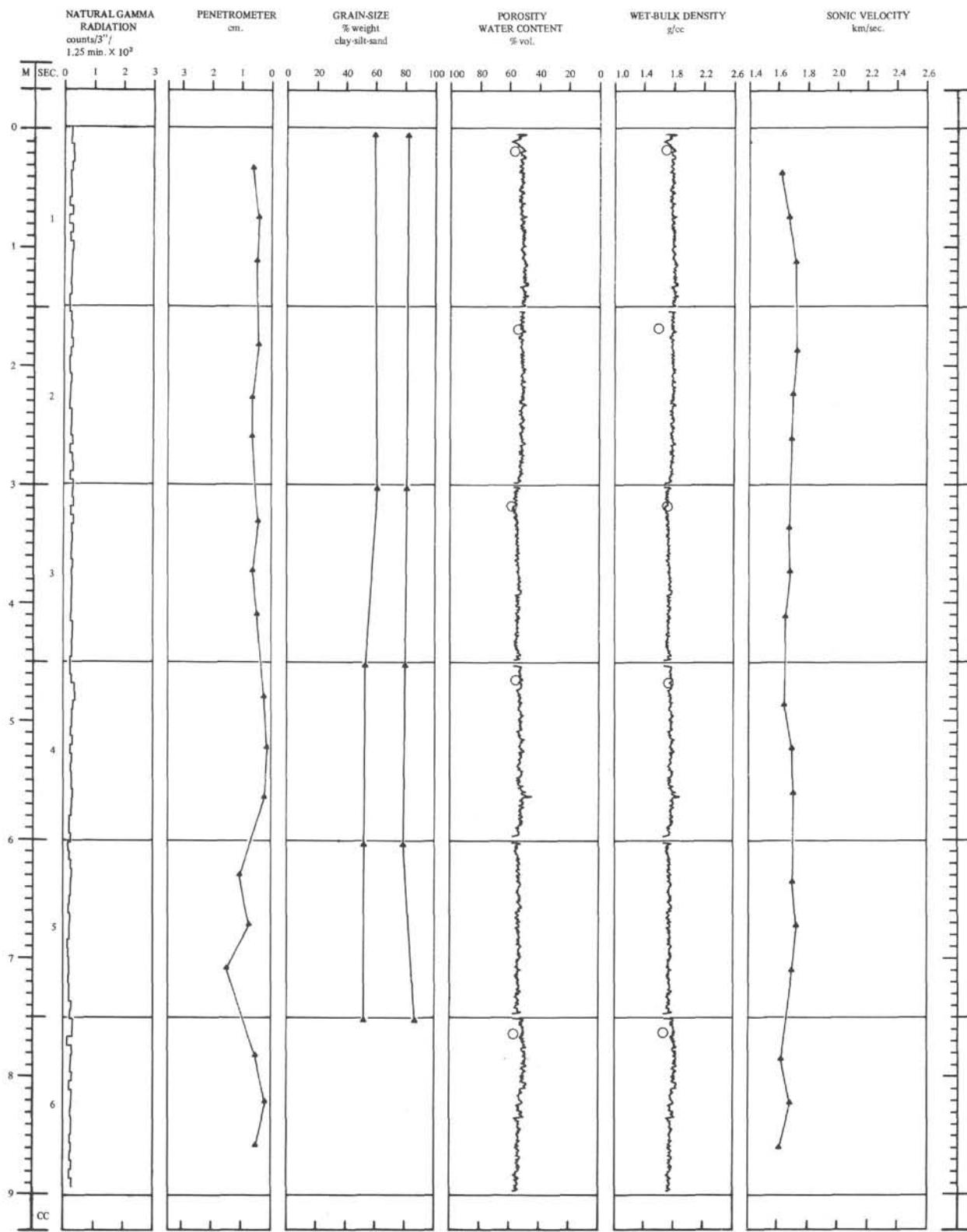


Hole 62.1 Core 17 Section 5					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK OOZE</u>
25					Mainly light greenish gray 5GY8/1 to very
		↔			→ 1
					→ 1
50					light gray N8, with slight mottles of light olive gray 5Y6/1 especially 1 to 17cm, and some layer mottles same color below 128cm marked
75					Specks and streaks (1) of pyritic? purplish black 5P2/1; often the streaks caused by cutting the core open have left large patches of grayish purple 5P4/2.
100					
125					
150					

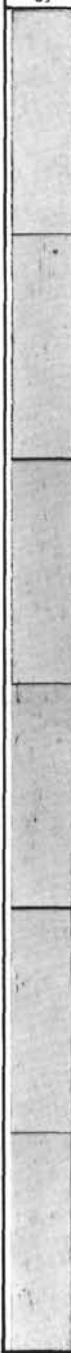
Hole 62.1 Core 17 Section 6					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK OOZE</u>
25					Soft areas homogenized by drilling.
50					Pale greenish gray 5GY8.5/1 with great mottling of pale yellowish green 10GY7/2, dusky yellow 5Y6/4 and flecks of very dusky purple 5P2/2.
75					Bedding horizontal.
100					
125					
150					



Lithology and biostratigraphy of Core 18, Hole 62.1.



Physical properties of Core 18, Hole 62.1.

Hole 62.1 Core 18 Section 1			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
		Smeared Slides (*) Deformed Areas	
0			NANNOFOSSIL CHALK OOZE
25			Greenish white 5G9/1 with 1-2mm spots of very dusky purple 5P2/2 (pyritic) and moderate mottling of dusky yellow 5Y6/4.
50			Firm texture. Bedding indistinct, horizontal
75			
100			
125			
150			

Hole 62.1 Core 18 Section 2			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
		Smeared Slides (*) Deformed Areas	
0			NANNOFOSSIL CHALK OOZE
25			Mainly very light gray N8 to light greenish gray 5GY8/1, with moderate mottling of light olive gray 5Y6/1 from 96-126cm and a few mottles above and below that. Specks (and streaks from cutting core) of (1) purplish black 5P2/1 pyritic? areas.
50			
75			
100			
125			
150			

→ 1 Purplish specks

0-1cm: Void

Mottled zone



Hole 62.1 Core 18 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

Greenish white 5G9/1 with great mottling of very dusky purple SP2/2, dusky yellow SY6/4 and minor pale green 5G7/2.

Horizontal bedding (faint).

Soft areas homogenized by drilling.

Hole 62.1 Core 18 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

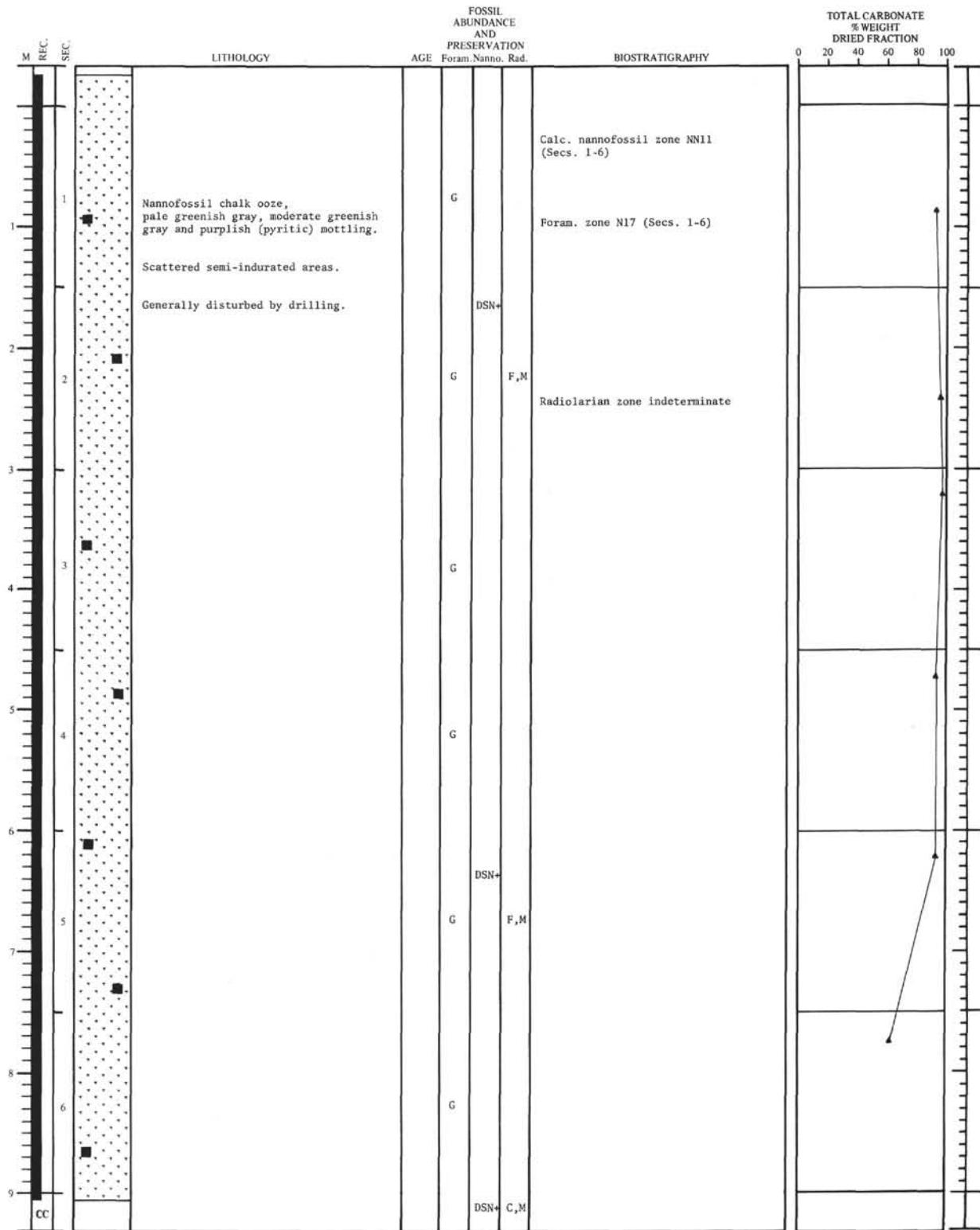
Greenish white 5G9/1 with great mottling of very dusky purple SP2/2, dusky yellow SY6/4 and minor pale green 5G7/2.

Indistinct, more or less horizontal bedding.

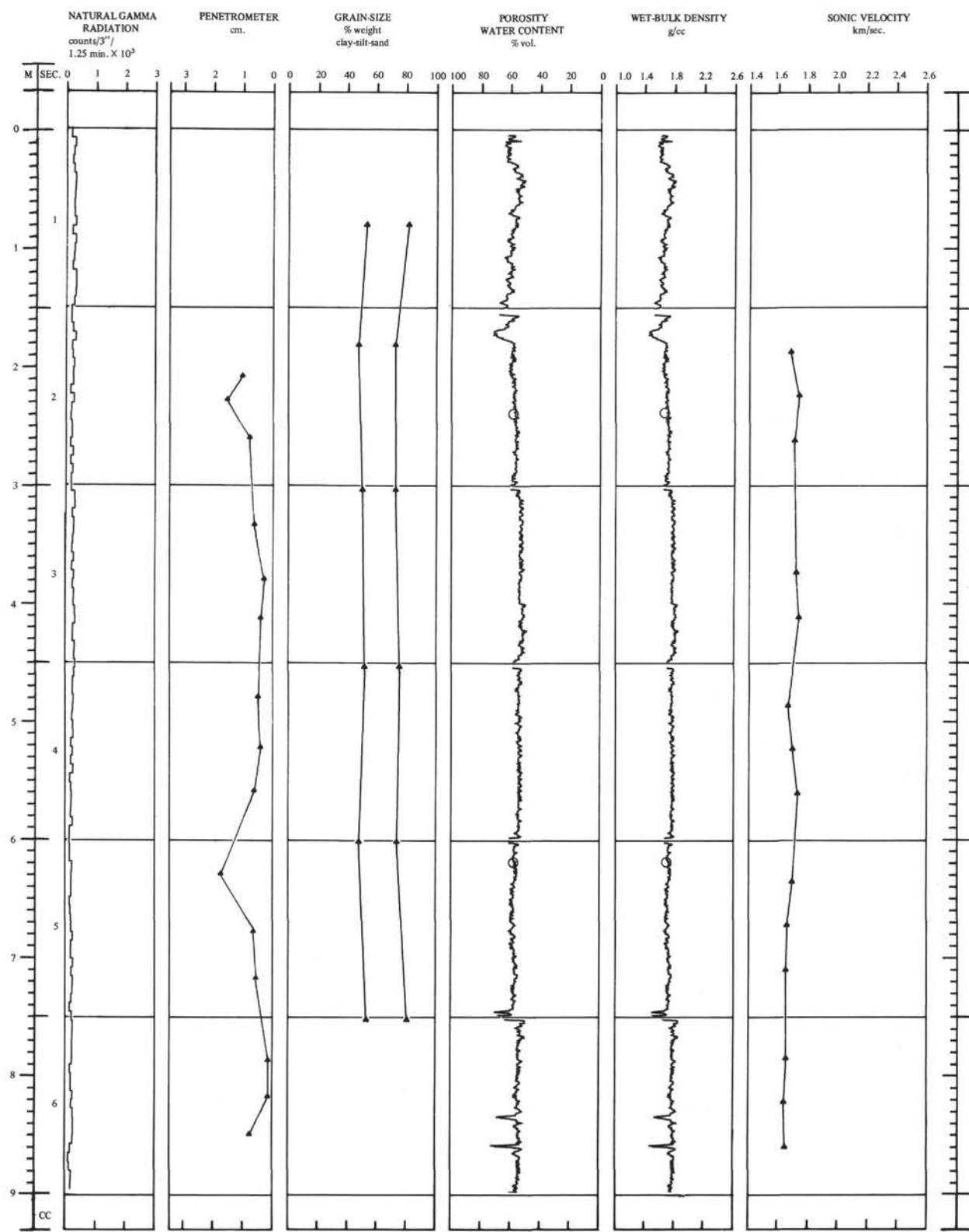
→ 1 Black pyrite concentration.

Hole 62.1 Core 18 Section 5			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			← 2 0-1cm: Void Nannofossil Chalk Ooze
50			← 2 Mainly light greenish gray 5GY8/1 to very light gray N8; very slightly mottled (1) light olive gray 5Y6/1 at 78 and 85cm, and above 12 cm. Specks and streaks of purplish black 5P2/1.
75			← 2 ← 1 ← 2
100			(2) Somewhat softer and grayer areas; perhaps drilling fluid between pieces of more coherent sediment.
125			
150			

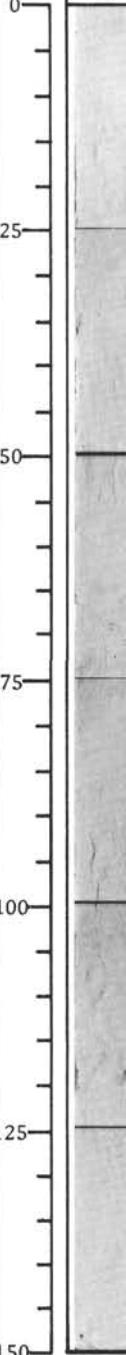
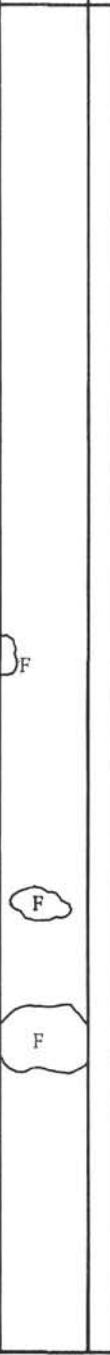
Hole 62.1 Core 18 Section 6			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			NANNOFOSSIL CHALK OOZE
50		Soft	Soft areas homogenized by drilling.
75		Soft	Firm to very firm greenish white 5G9/1 with moderate mottling of very dusky purple 5P2/2 (pyritic), dusky yellow 5Y6/4 and lesser pale green 5G7/2.
100		Soft	Bedding more or less horizontal.
125		Soft	0-2cm: Void
150		Soft	

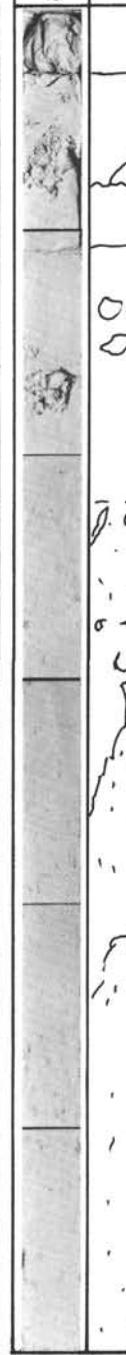


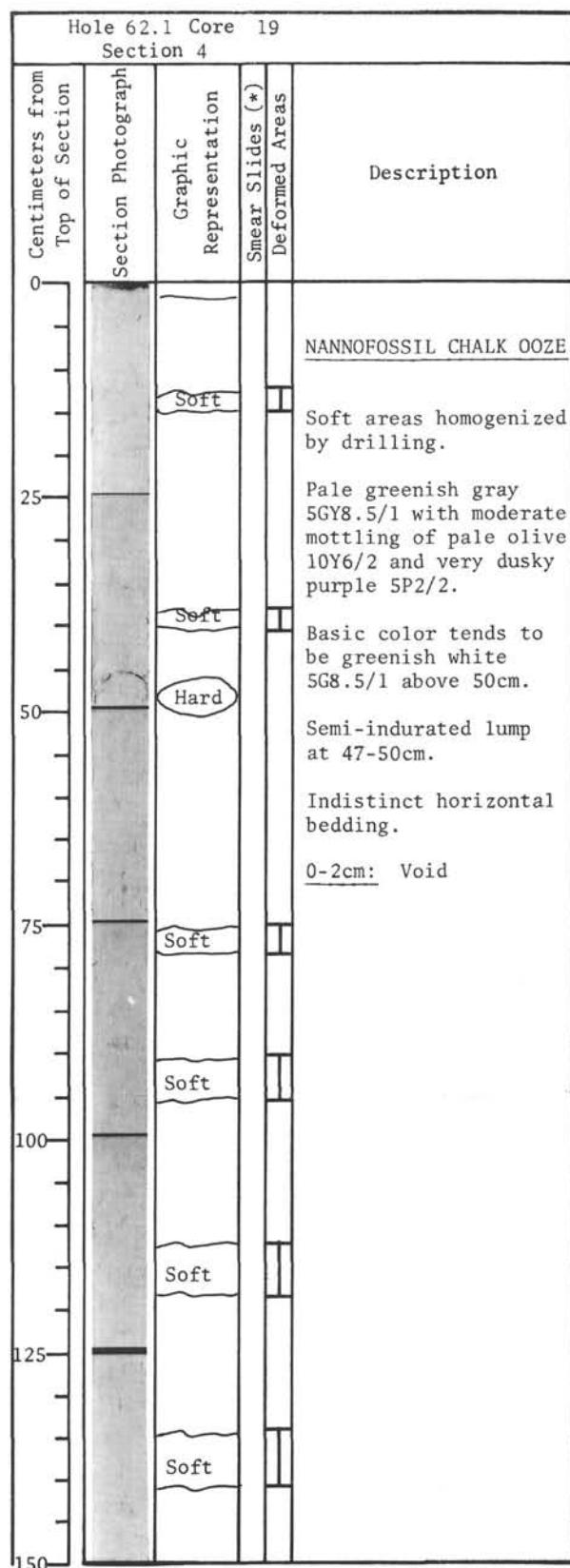
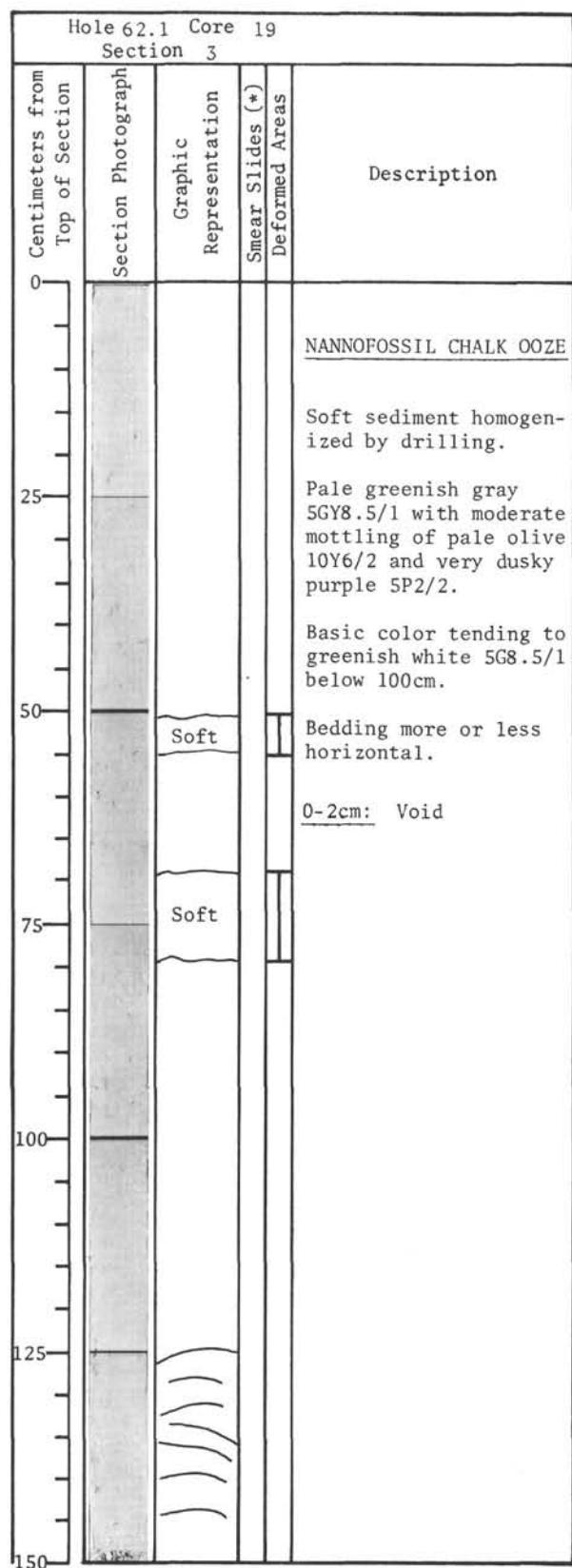
Lithology and biostratigraphy of Core 19, Hole 62.1.



Physical properties of Core 19, Hole 62.2.

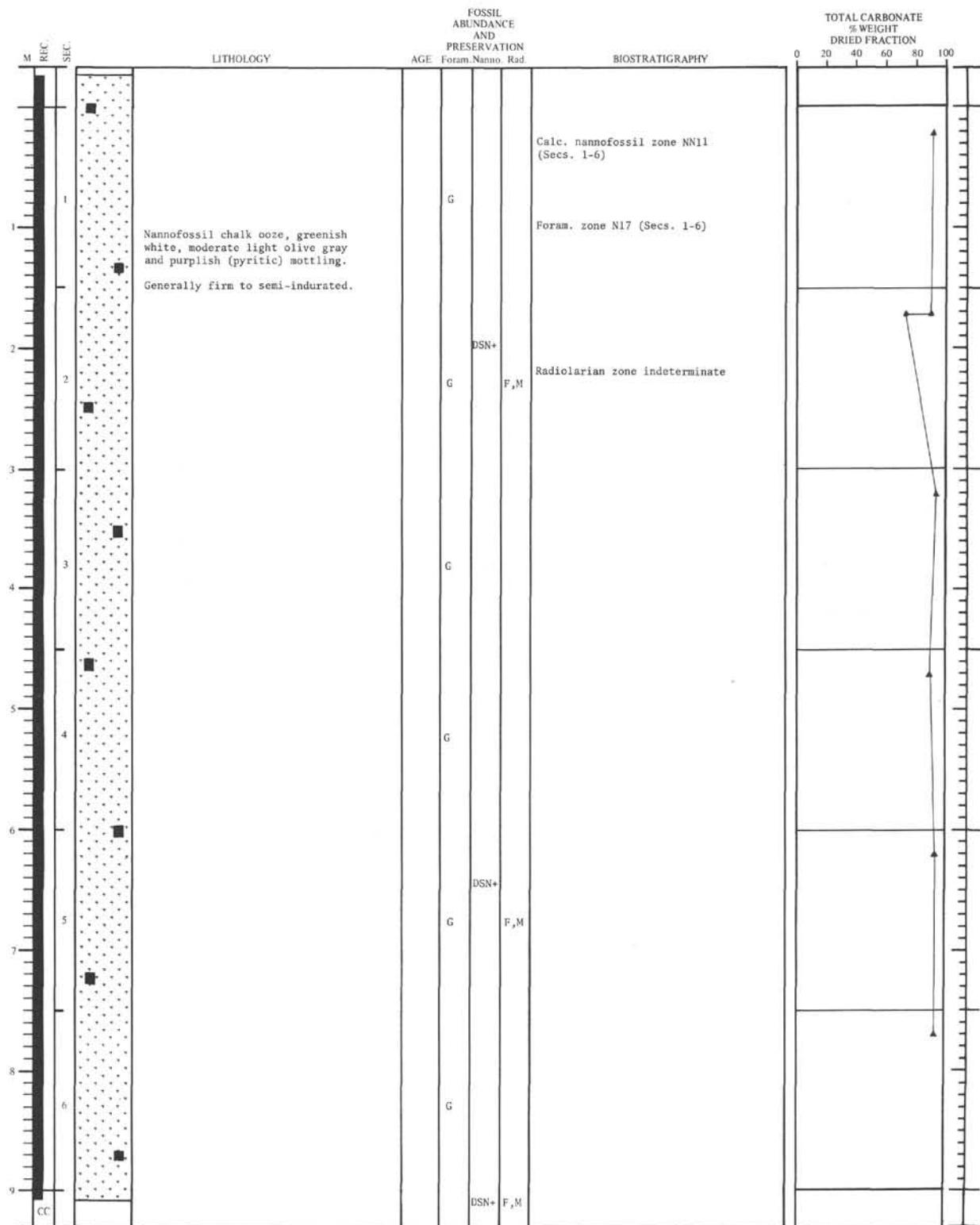
Hole 62.1 Core 19					
Section 1					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					NANNOFOSSIL CHALK OOZE
25					Thoroughly homogenized by drilling except a few firm lumps (F). Overall color pale bluish gray 5B8/1.
50					Firm areas pale greenish gray 5G8.5/1 with moderate mottling of greenish gray 5G6/1 and very dusky purple 5P2/2.
75					F
100					F
125					
150					

Hole 62.1 Core 19					
Section 2					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					
25					3 This void probably came from present 1 19-26cm interval, 1 which flowed onto table when core 1 was cut.
50					4 Drilling mud.
75					1 5 Harder area. 1
100					NANNOFOSSIL CHALK OOZE
125					Mainly light greenish gray (5G8/1) to greenish white 5G9/1 to very light gray N8. Some pale green 5G7/2 patches, where marked (1) at left. Very slightly 1
150					1 6 Darker 7 Lighter (SG9/1) mottled, at ~ 56cm (2). Part from 55-68, 76 or 80 - 101, and below 106 in spreckled with purplish black (SP2/1) 6 Darker ? 7 Lighter (~ SG9/1) pyritic areas.

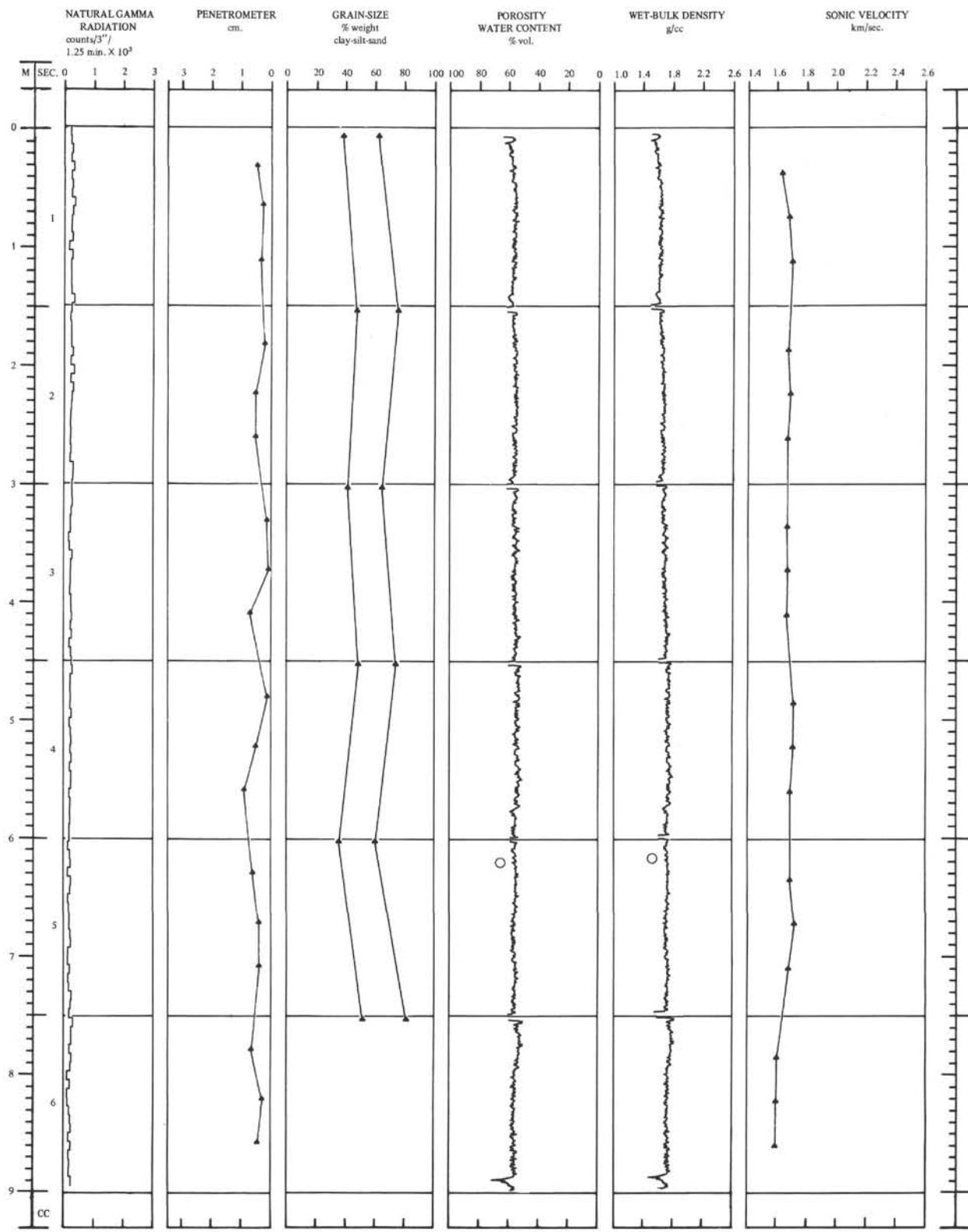


Hole 62.1 Core 19 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

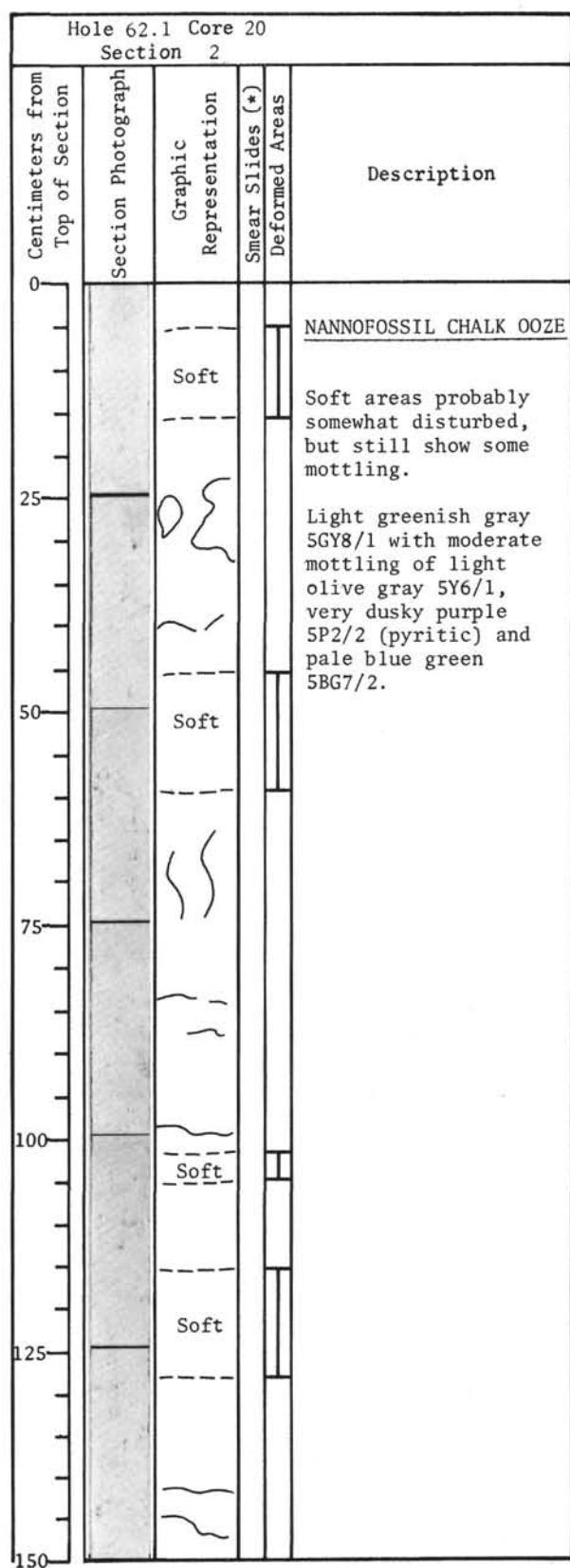
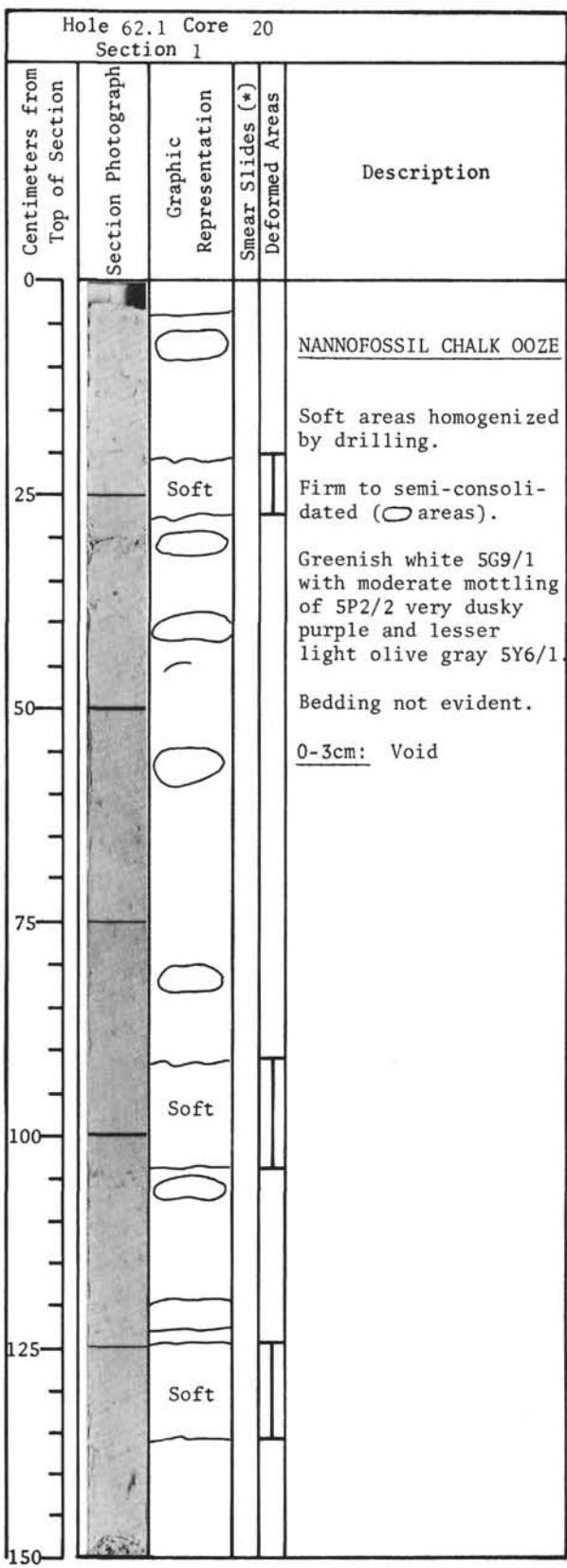
Hole 62.1 Core 19 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

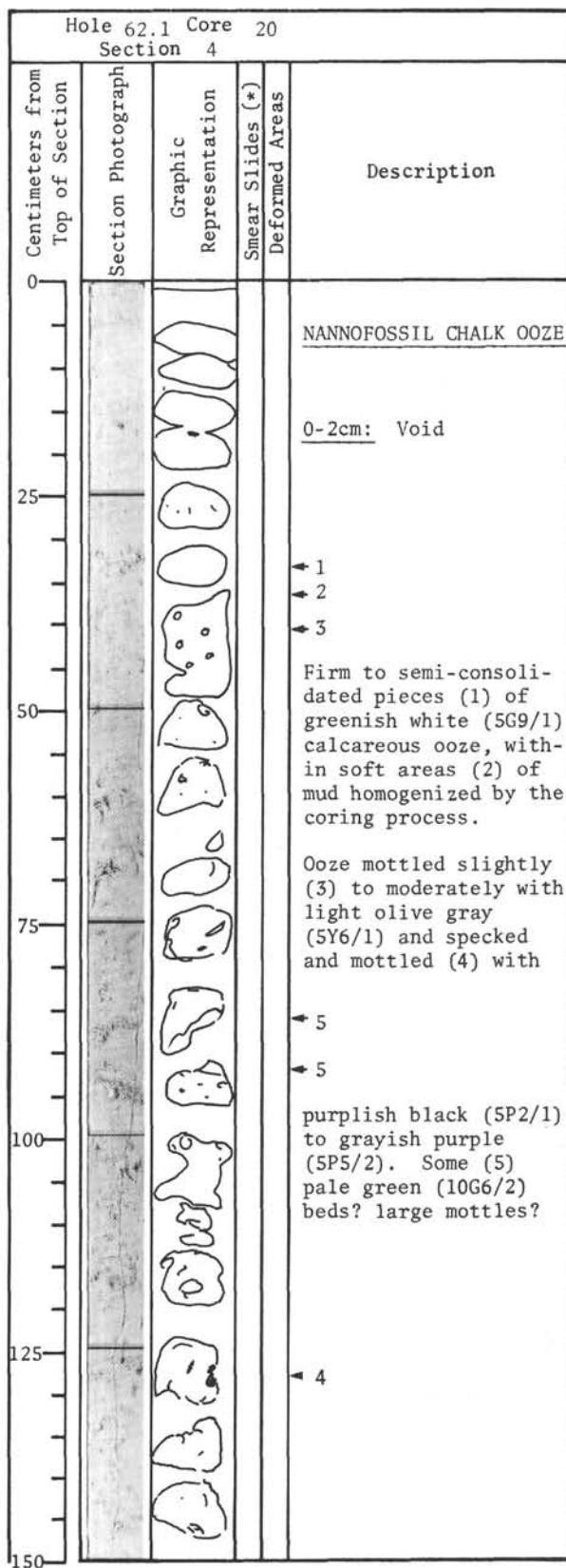
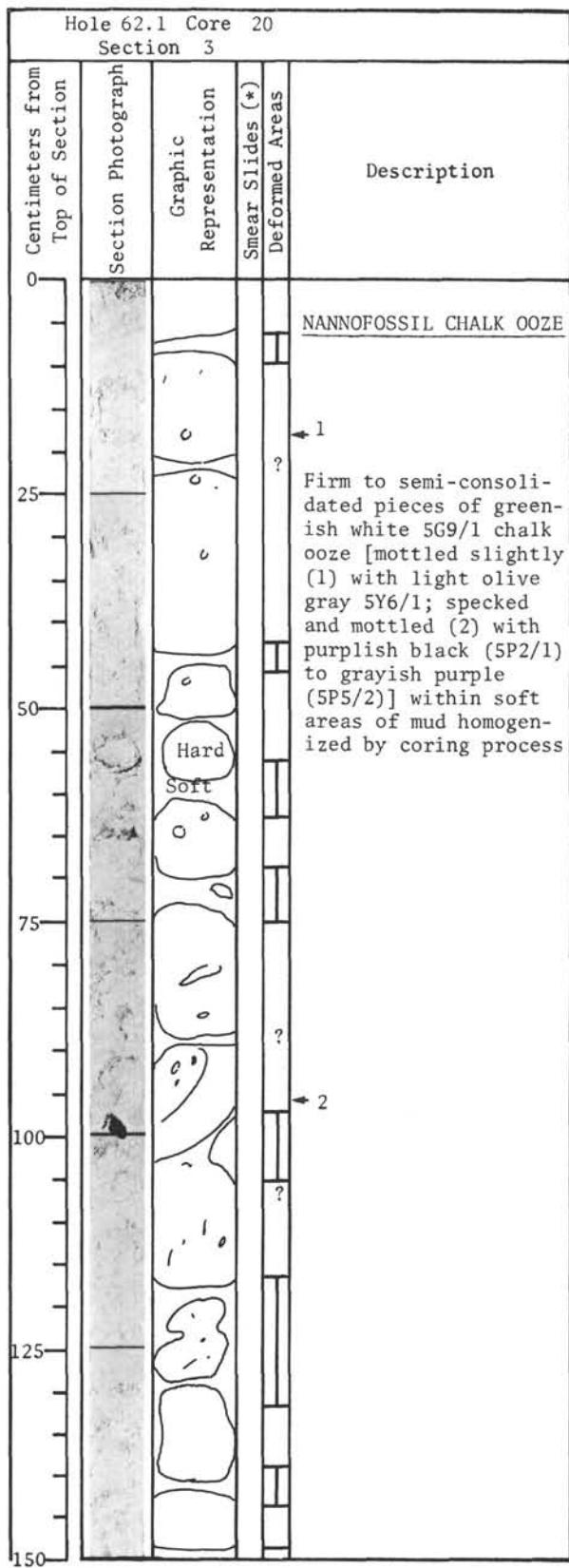


Lithology and biostratigraphy of Core 20, Hole 62.1.

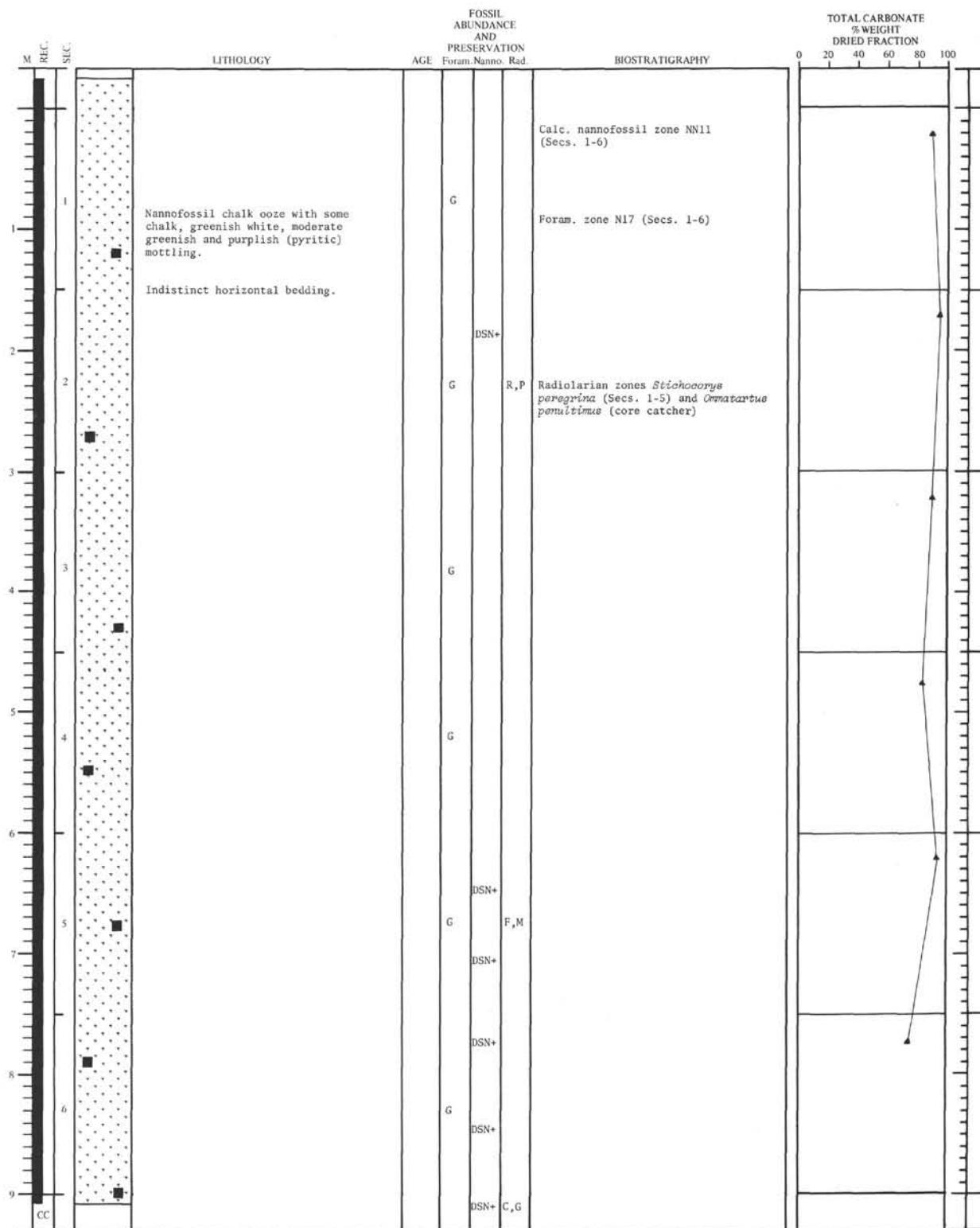


Physical properties of Core 20, Hole 62.1.

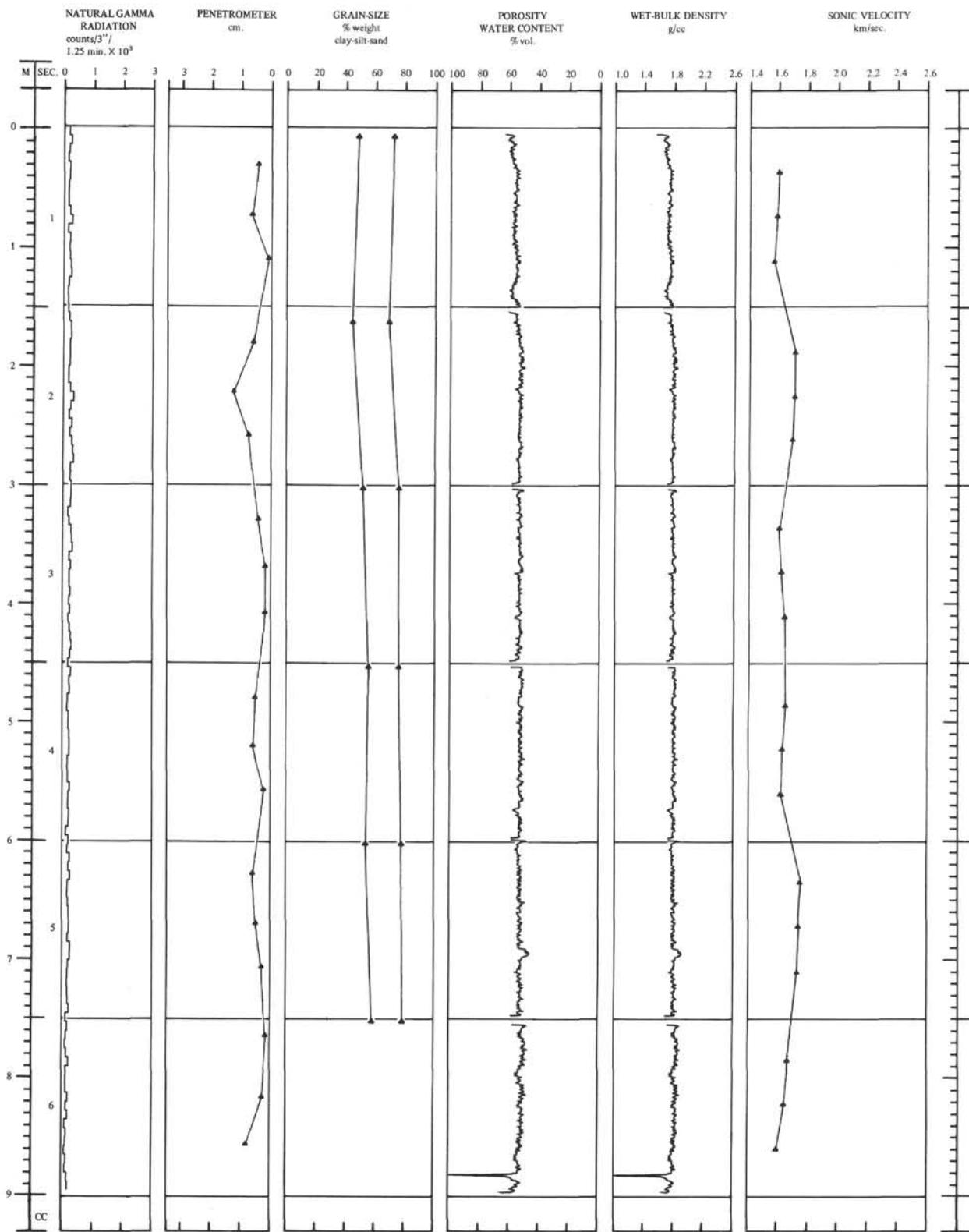




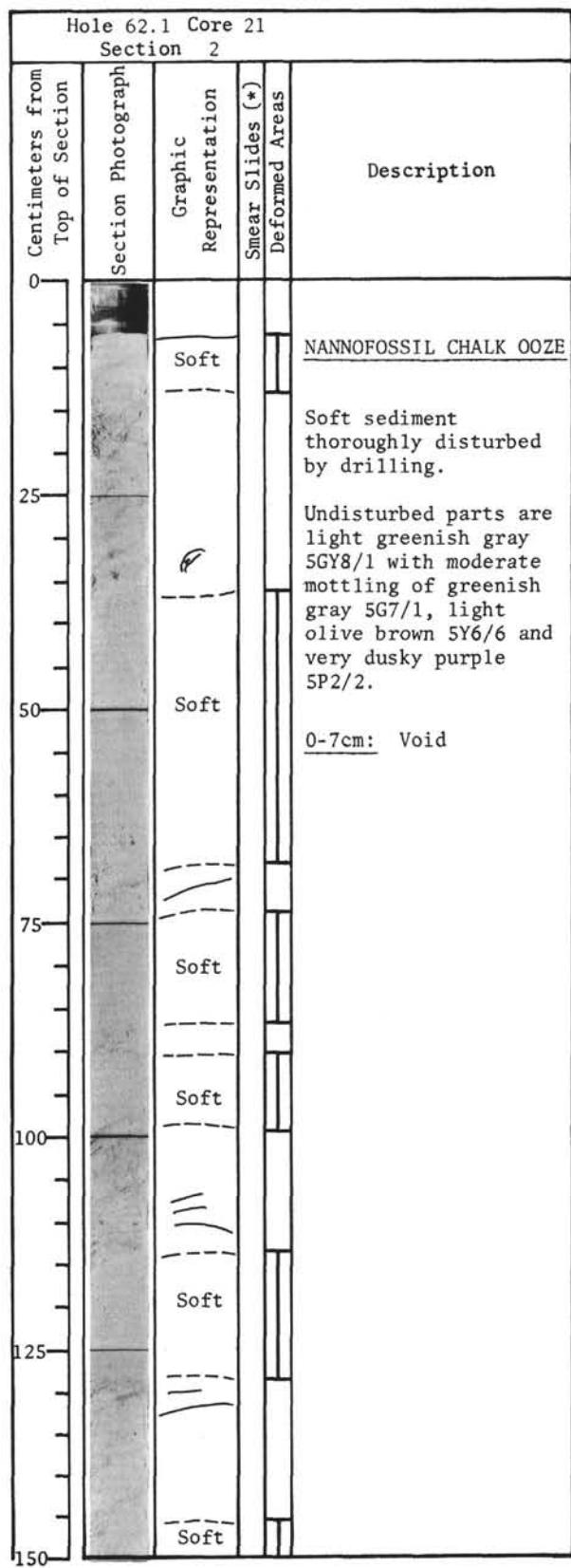
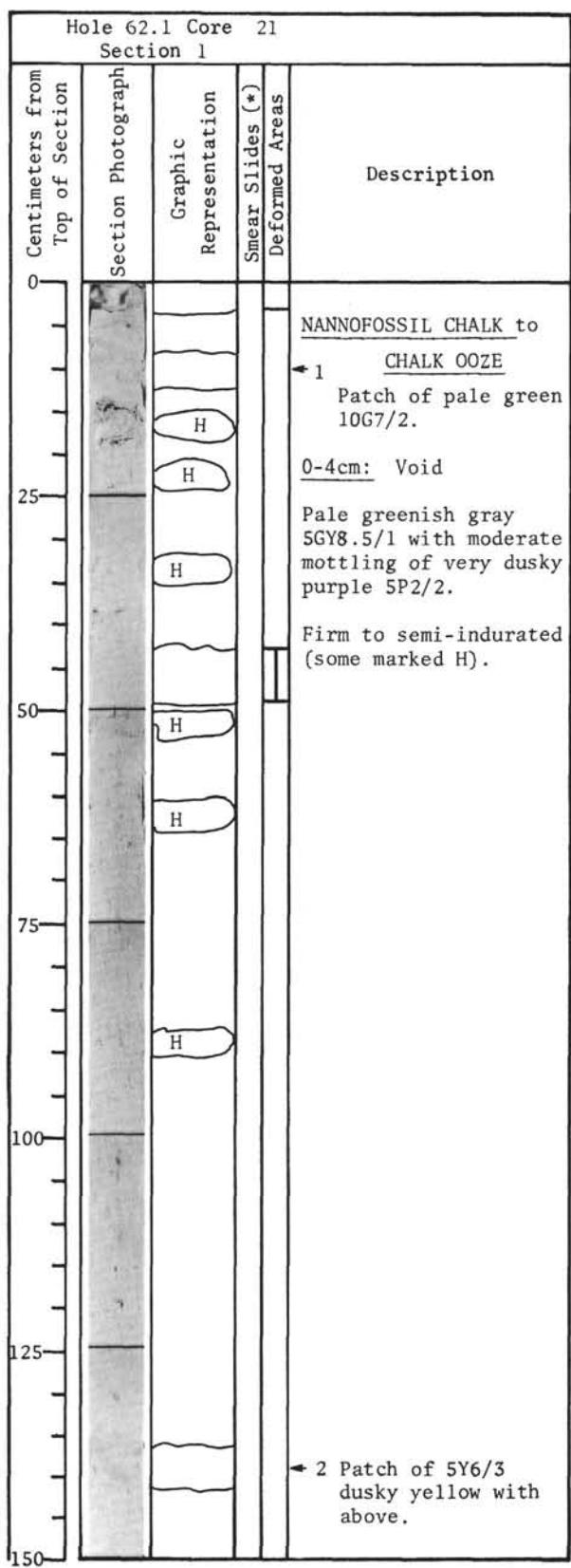
Hole 62.1 Core 20 Section 5				Hole 62.1 Core 20 Section 6			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description	Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
0			NANNOFOSSIL CHALK OOZE Soft areas disturbed by drilling. (Many thin bands in addition to those shown). Light greenish gray 5GY8/1 with moderate mottling of light olive gray 5Y6/1 and very dusky purple 5P2/2 and pale blue green 5BG7/2. No bedding structures.	0			NANNOFOSSIL CHALK OOZE Firm to semi-consolidated pieces of greenish white (5G9/1) chalk ooze, mottled slightly to moderately with light olive gray (5Y6/1), grayish purple (5PS/2), and pale green (10G6/2); and specks of purplish black (5P2/1) pyritic areas. Hard chalk ooze pieces are in a matrix of homogenized mud, due to coring process.
25				25			
50				50			
75				75			
100				100			
125				125			
150				150			

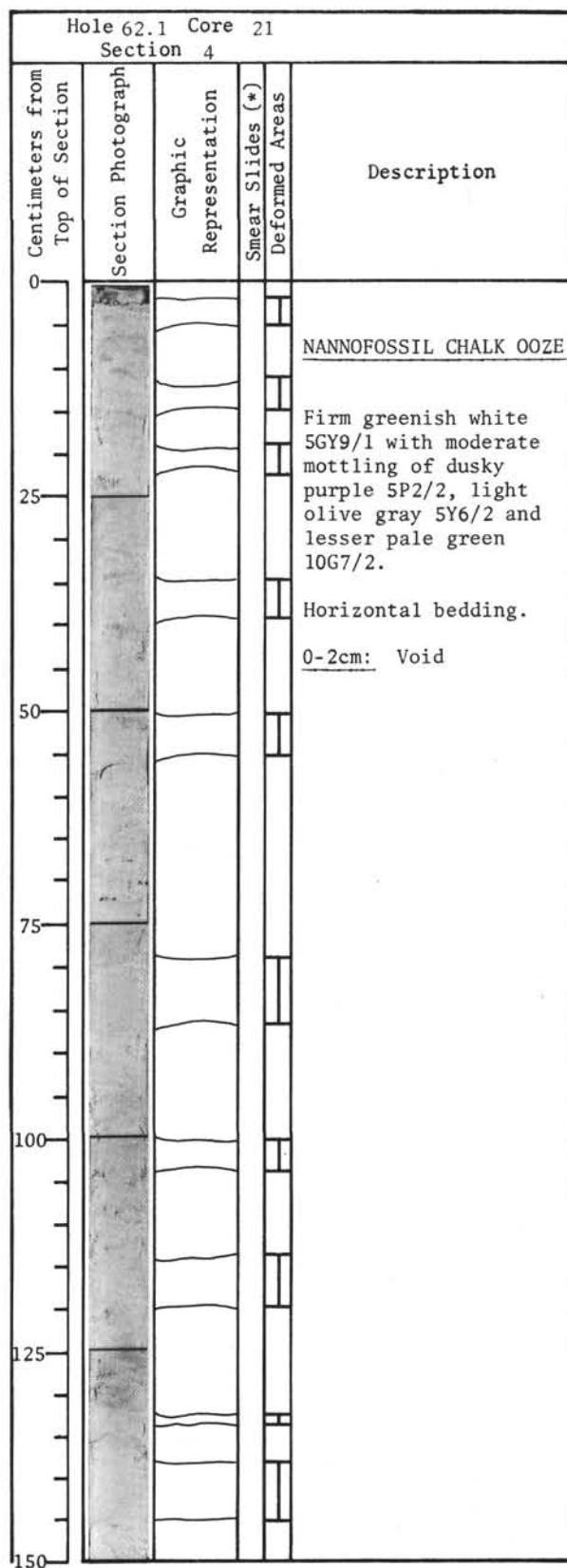
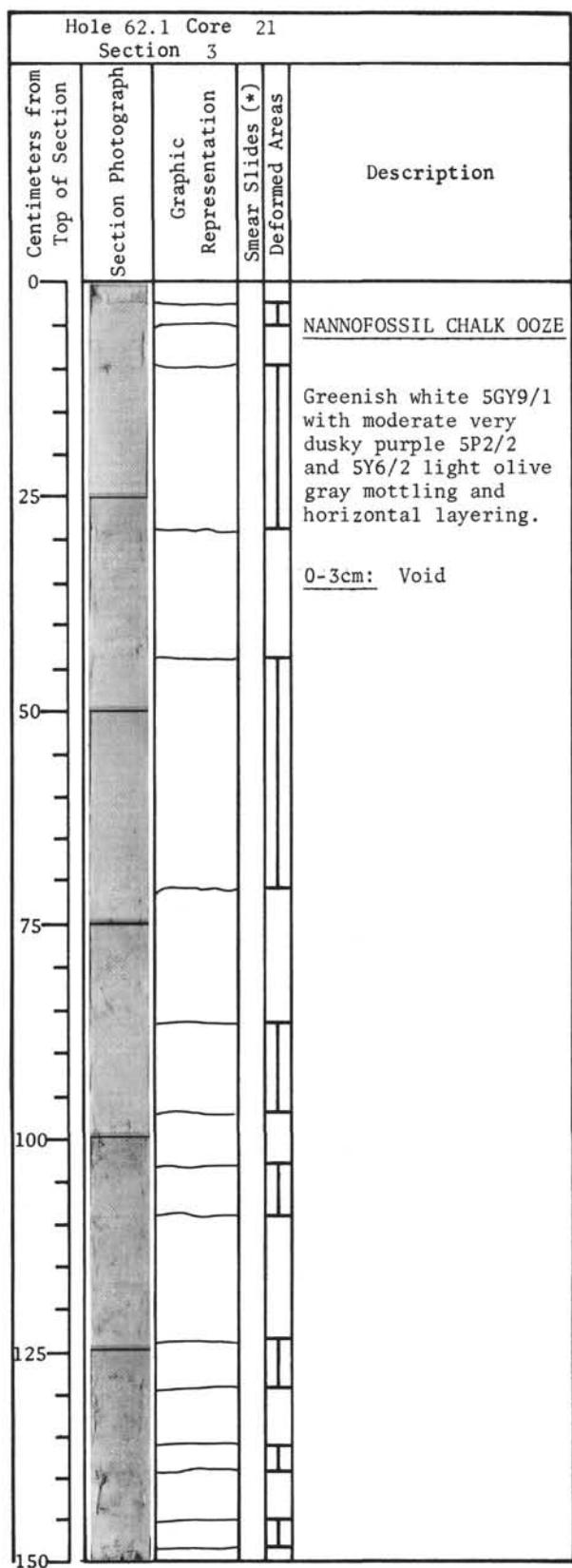


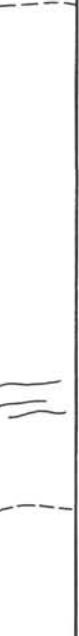
Lithology and biostratigraphy of Core 21, Hole 62.1.

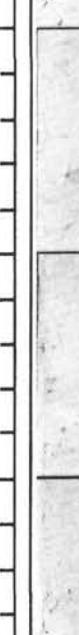


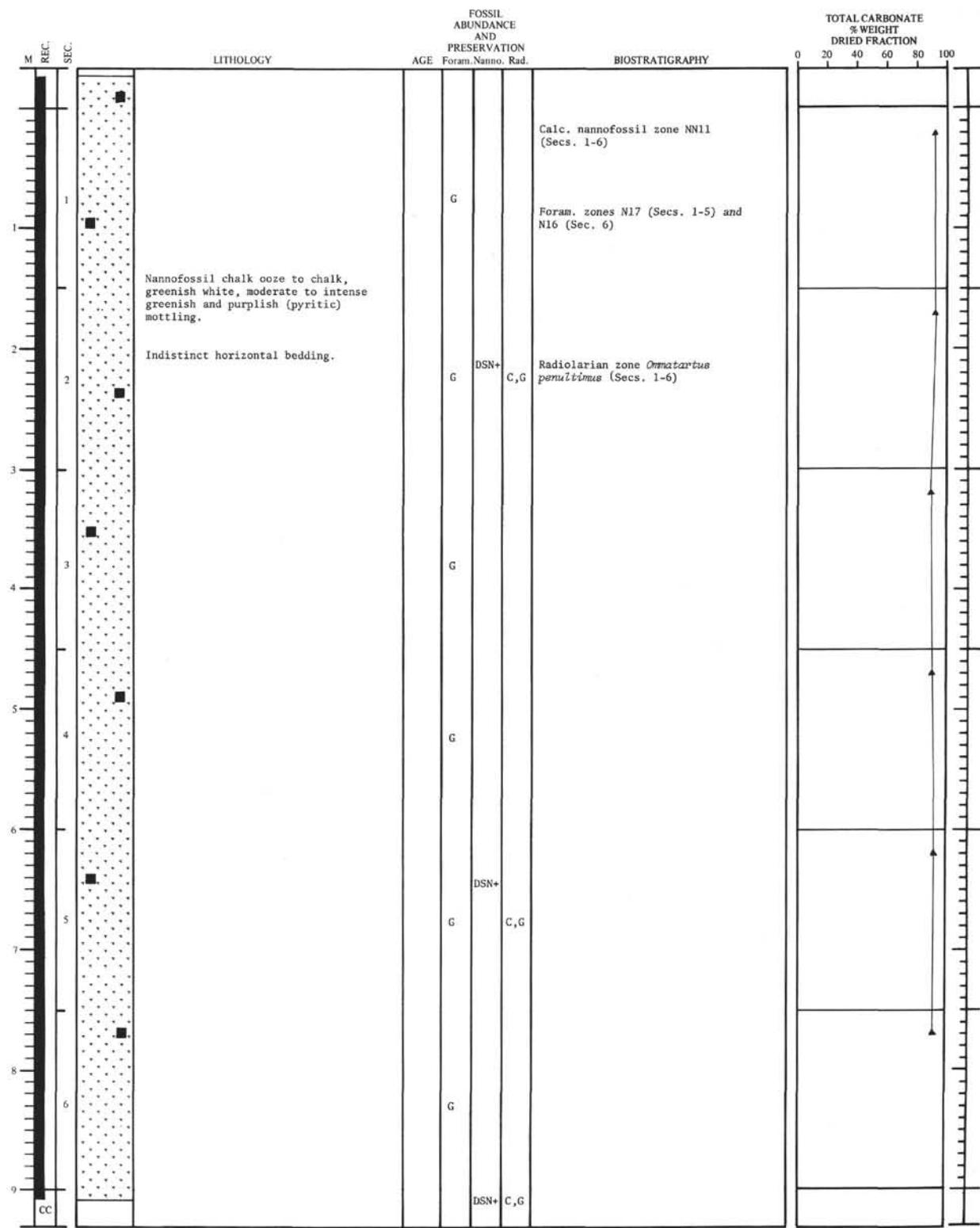
Physical properties of Core 21, Hole 62.1.



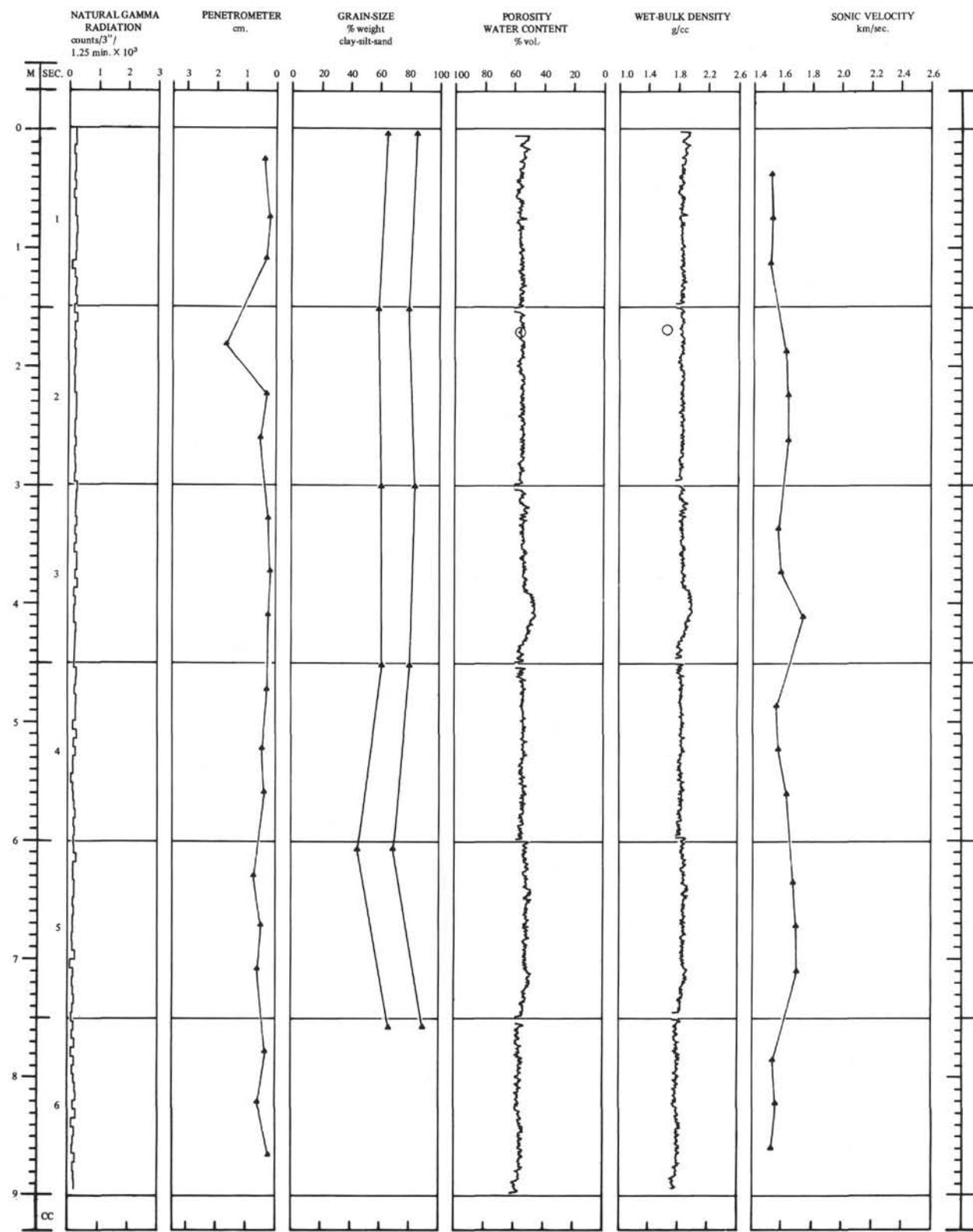


Hole 62.1 Core 21 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
				Deformed Areas
0				
25			NANNOFOSSIL CHALK OOZE Soft	Soft patches homogenized by drilling. Light greenish gray 5GY8/1 with moderate mottling of very dusky purple (SP2/2) pyritic and pale blue green 5BG7/1 with light olive gray SY7/1. 0-2cm: Void
50				
75				
100				
125				
150				

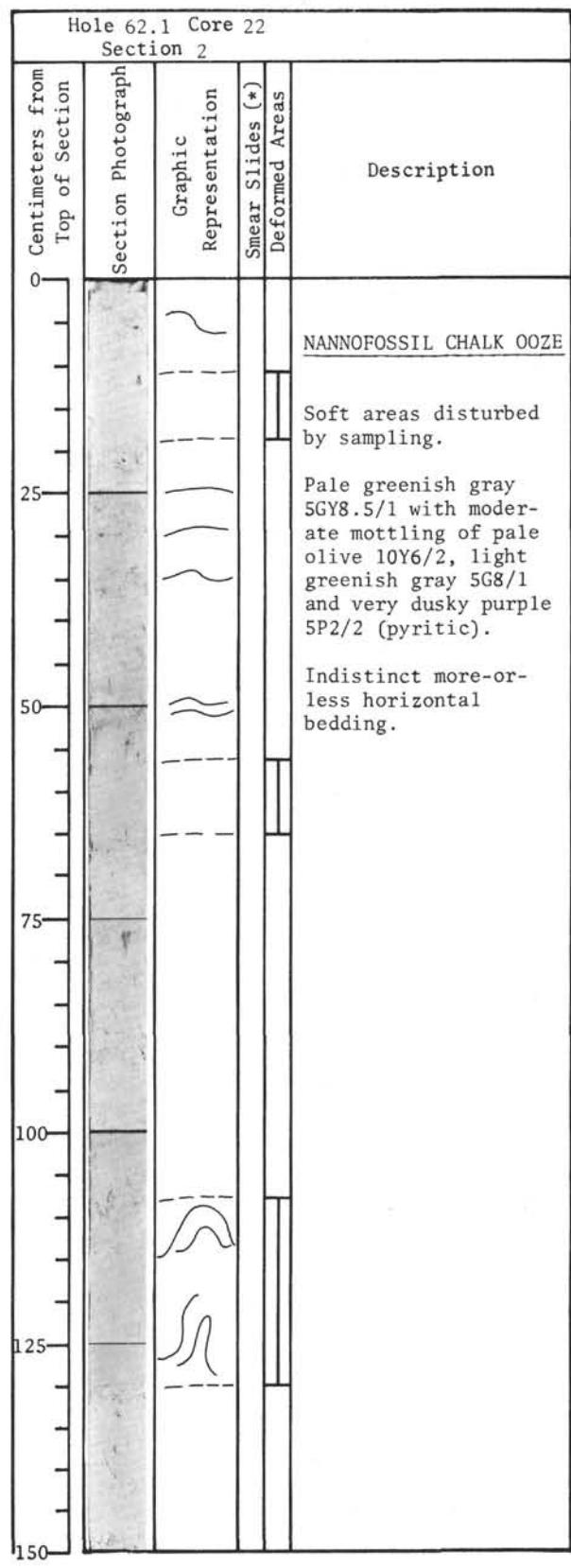
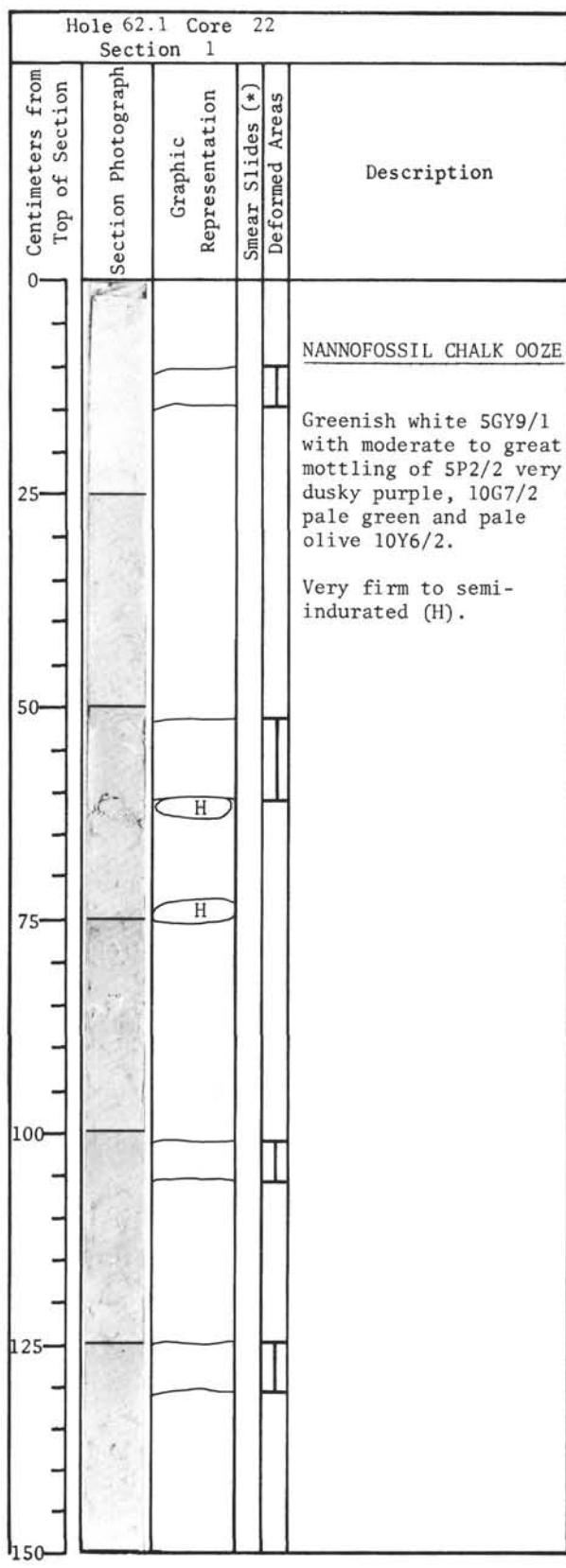
Hole 62.1 Core 21 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
				Deformed Areas
0				
25			H	0-4cm: Void
50				
75				
100			H	Firm to semi-indurated (H) greenish white 5GY9/1 with moderate mottling of very dusky purple SP2/1, light olive gray and lesser pale green 10G7/2. Bedding more or less horizontal.
125				
150				



Lithology and biostratigraphy of Core 22, Hole 62.1.

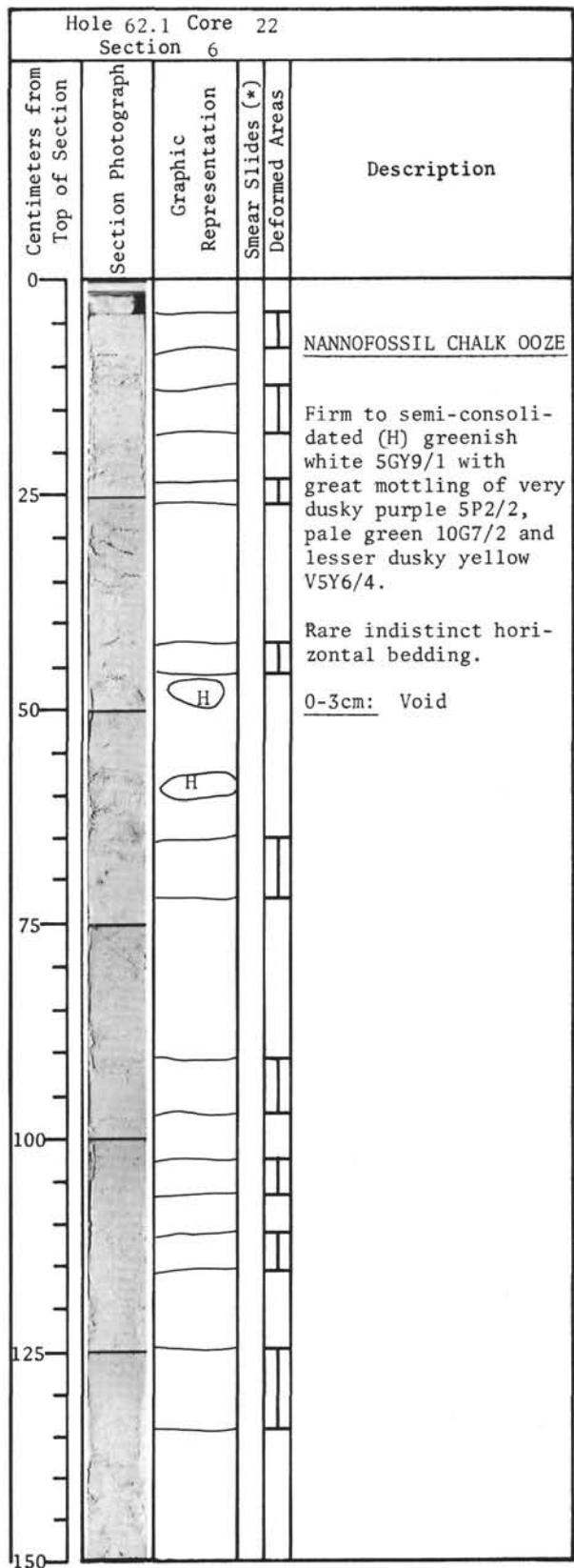
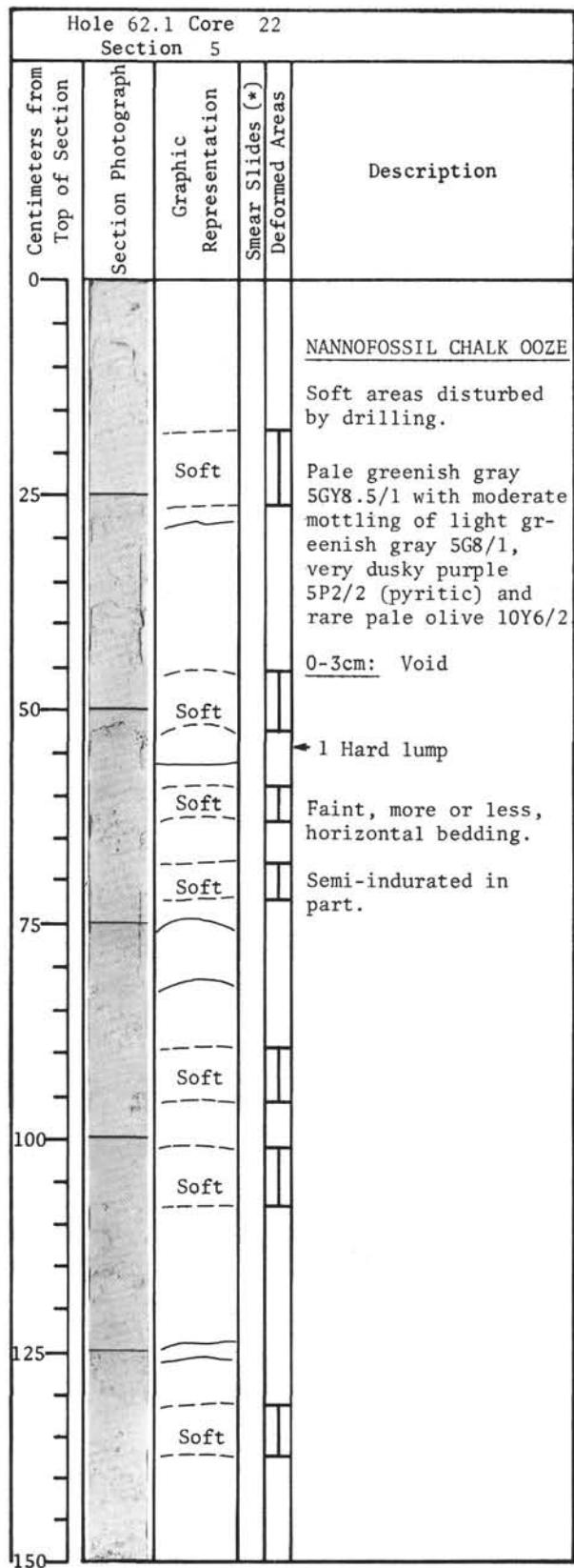


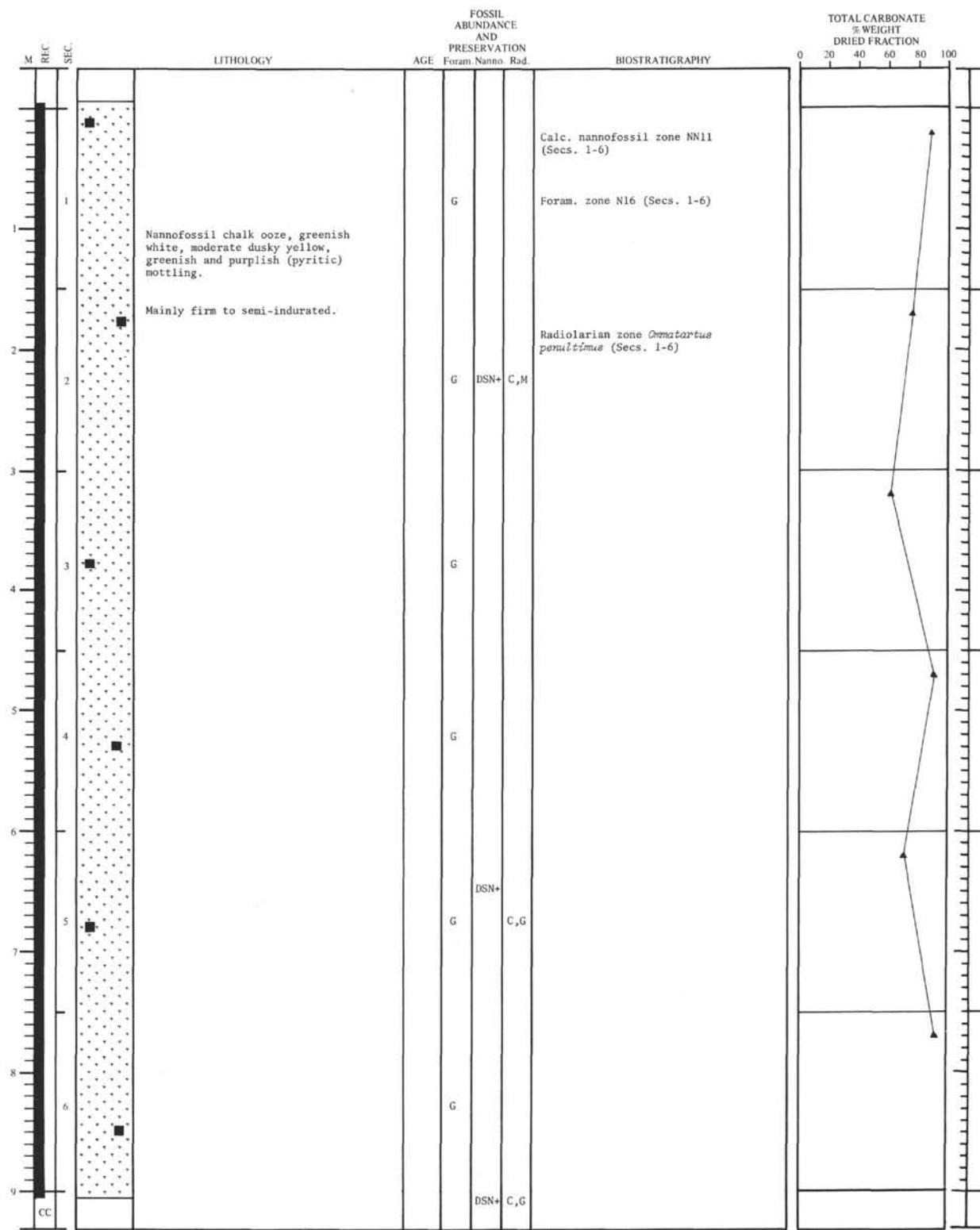
Physical properties of Core 22, Hole 62.1.



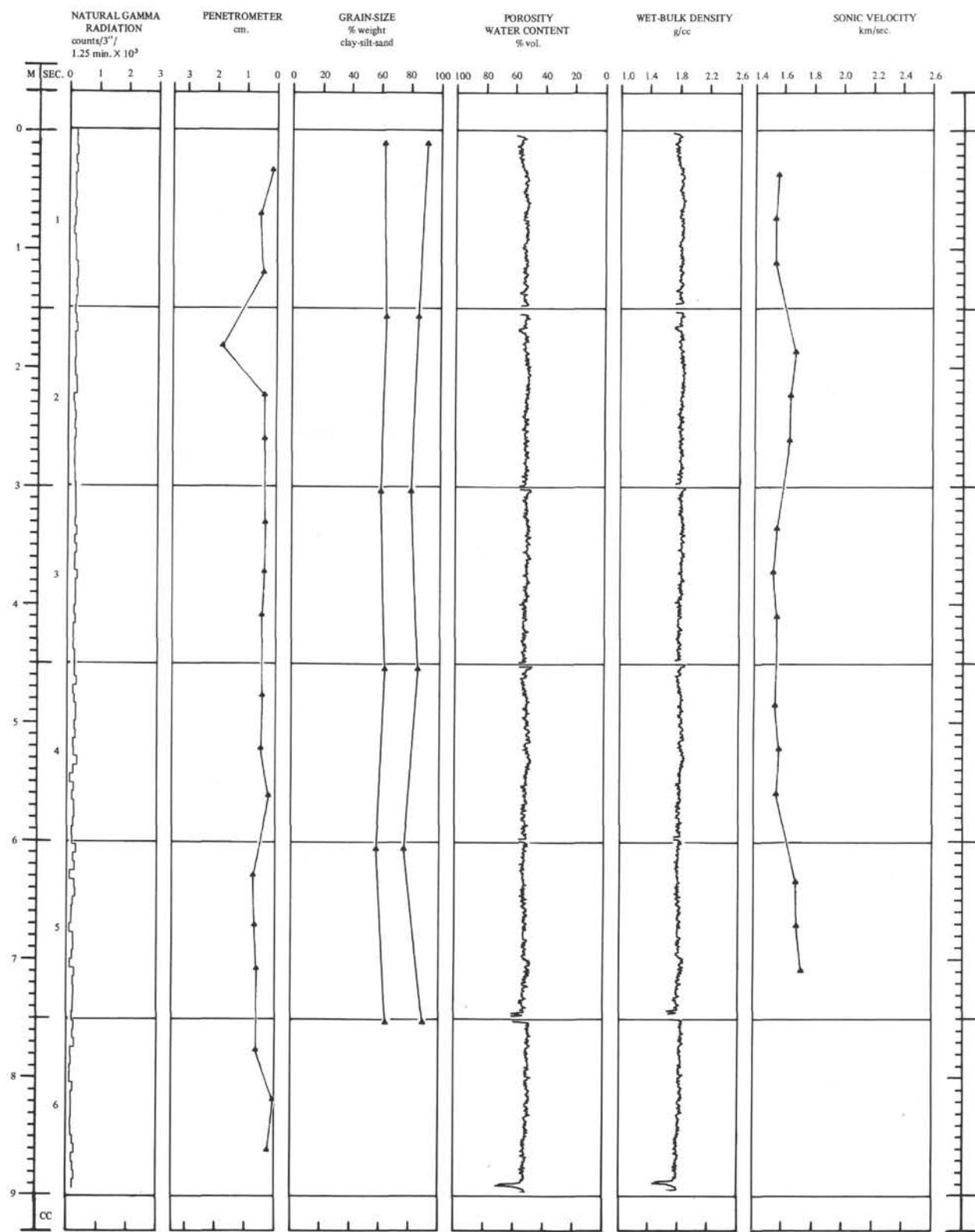
Hole 62.1 Core 22 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50		H		
75		H		
100		H		
125		H		
150		H		

Hole 62.1 Core 22 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				





Lithology and biostratigraphy of Core 23, Hole 62.1.



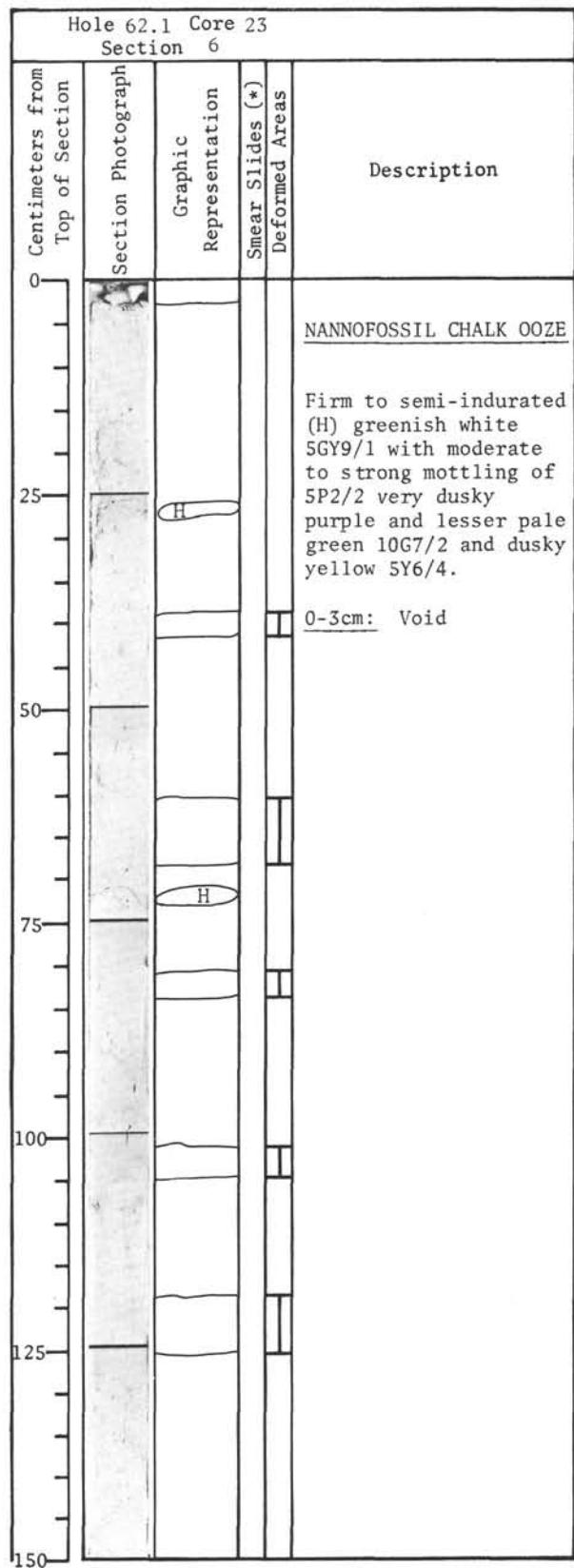
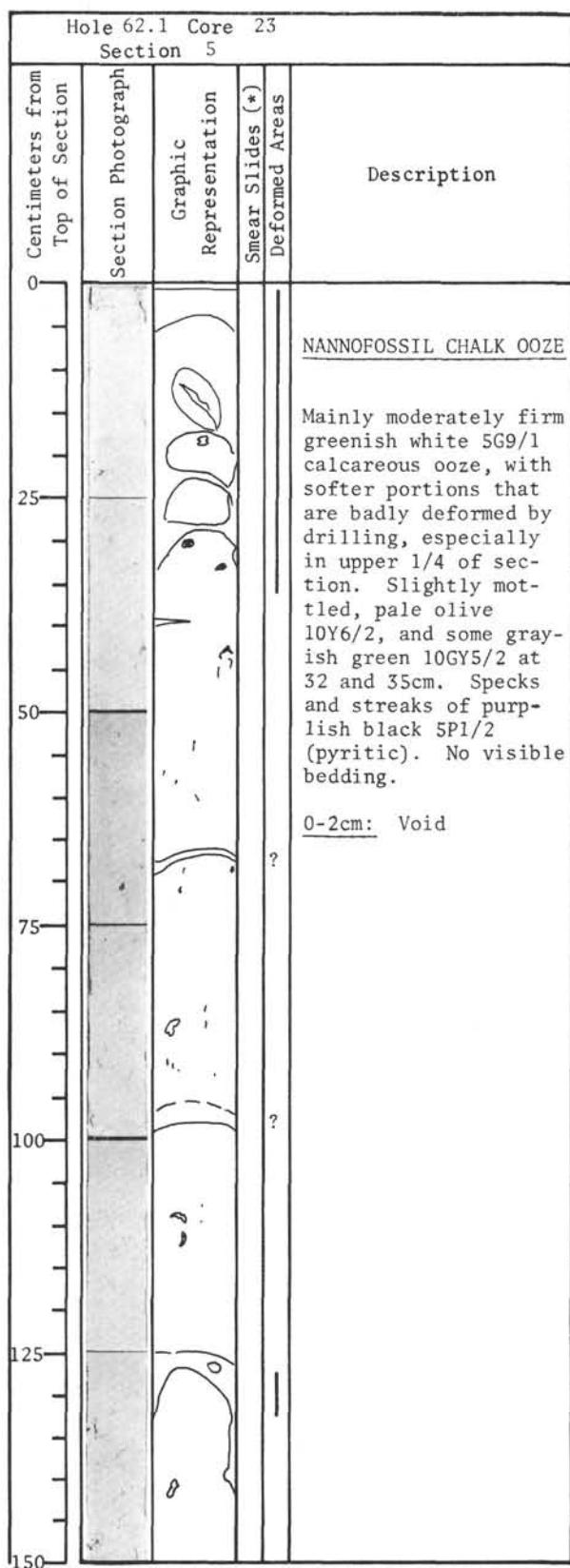
Physical properties of Core 23, Hole 62.1.

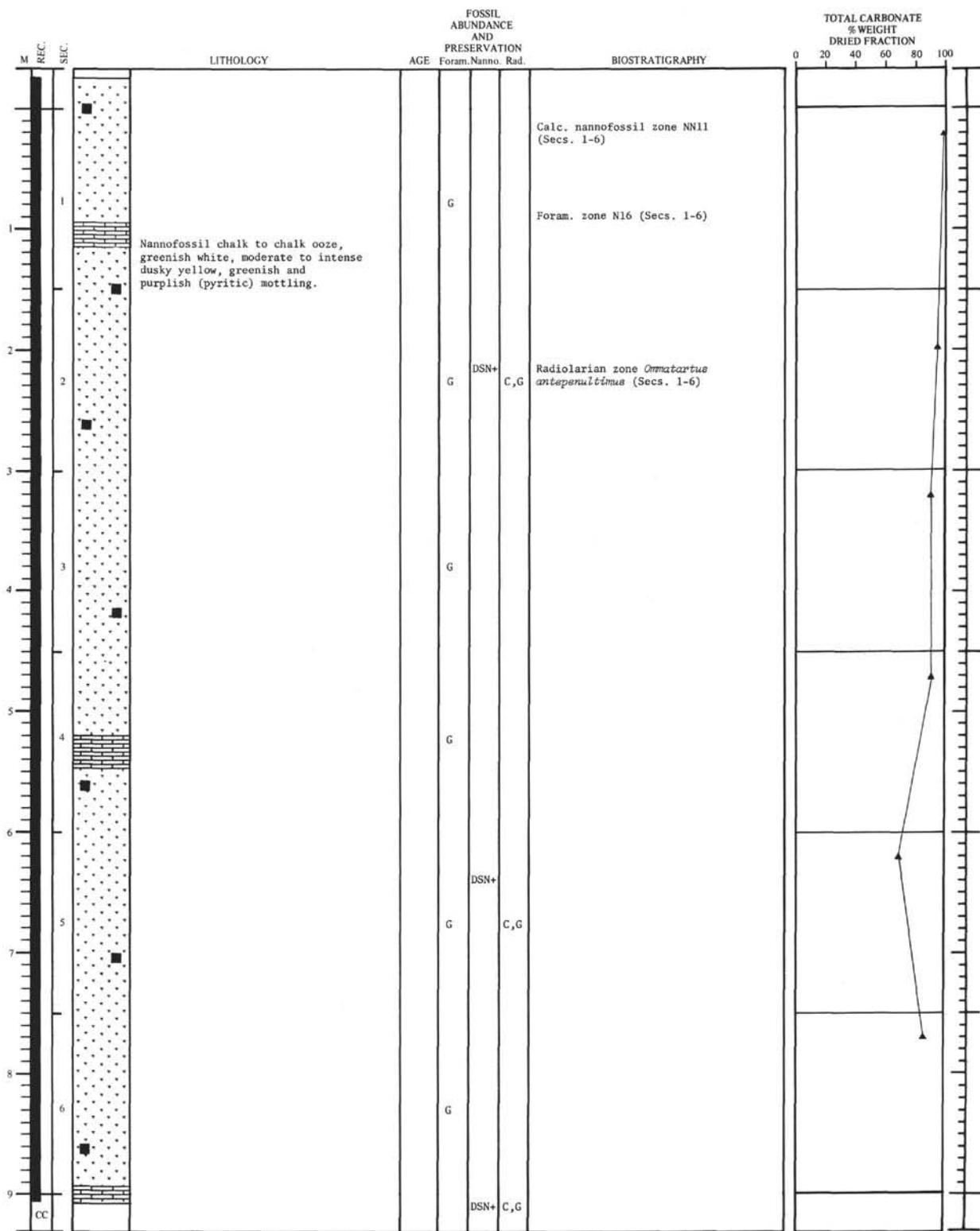
Hole 62.1 Core 23 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
				Description
0				
25				NANNOFOSSIL CHALK OOZE Greenish white 5GY9/1 with moderate 5P2/2 very dusky purple mottling. 0-4cm: Void
50				
75				
100				
125				Same pale green 10G7/2 mottling.
150				

Hole 62.1 Core 23 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
				Description
0				
25		Soft		NANNOFOSSIL CHALK OOZE Soft area disturbed by drilling. 0-4cm: Void
50				→ 1 Hard
75				→ 1 Hard
100				→ 2 Pyrite nodule
125				→ 1 Hard
150				Firm to locally semi-indurated bluish white 5B8.5/1 with moderate mottling of light greenish gray 5G8/1, pale olive 10Y6/2 and very dusky purple 5P2/2 (pyritic). No visible bedding.

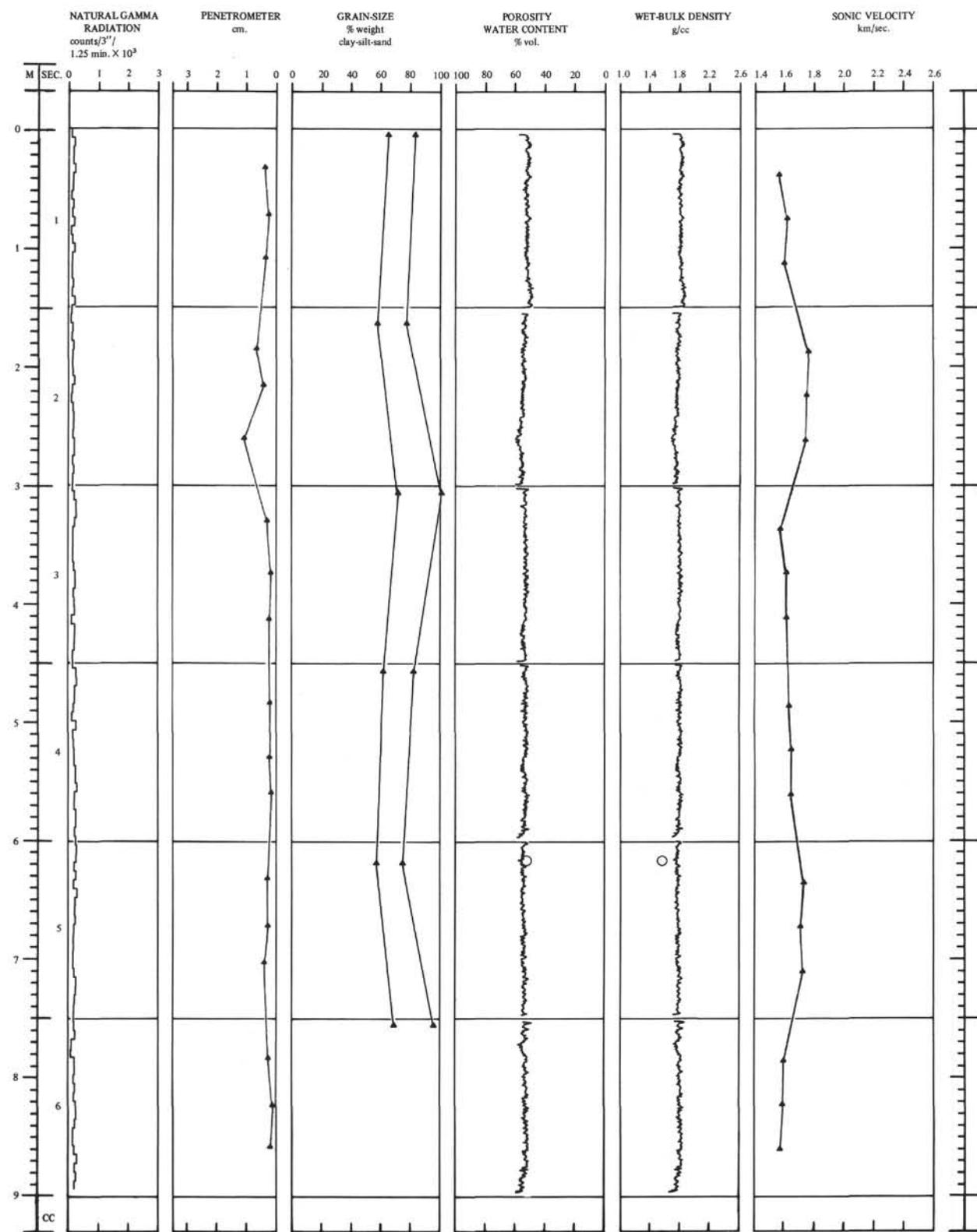
Hole 62.1 Core 23 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25				NANNOFOSSIL CHALK OOZE
50				→ 1 Pyrite concretions 1-2mm.
75				→ 1
100				Greenish white 5GY9/1 with moderate very dusky purple 5P2/2 and lesser dusky yellow 5Y6/4 and pale green 10G7/2 (mainly above 14cm and 98-103 cm) mottling.
125				
150				

Hole 62.1 Core 23 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25				NANNOFOSSIL CHALK OOZE
50				Greenish white 5GY9/1 with moderate mottling of 5P2/2 very dusky purple and lesser pale green 10G7/2 and dusky yellow 5Y6/4.
75				0-3cm: Void
100				
125				
150				

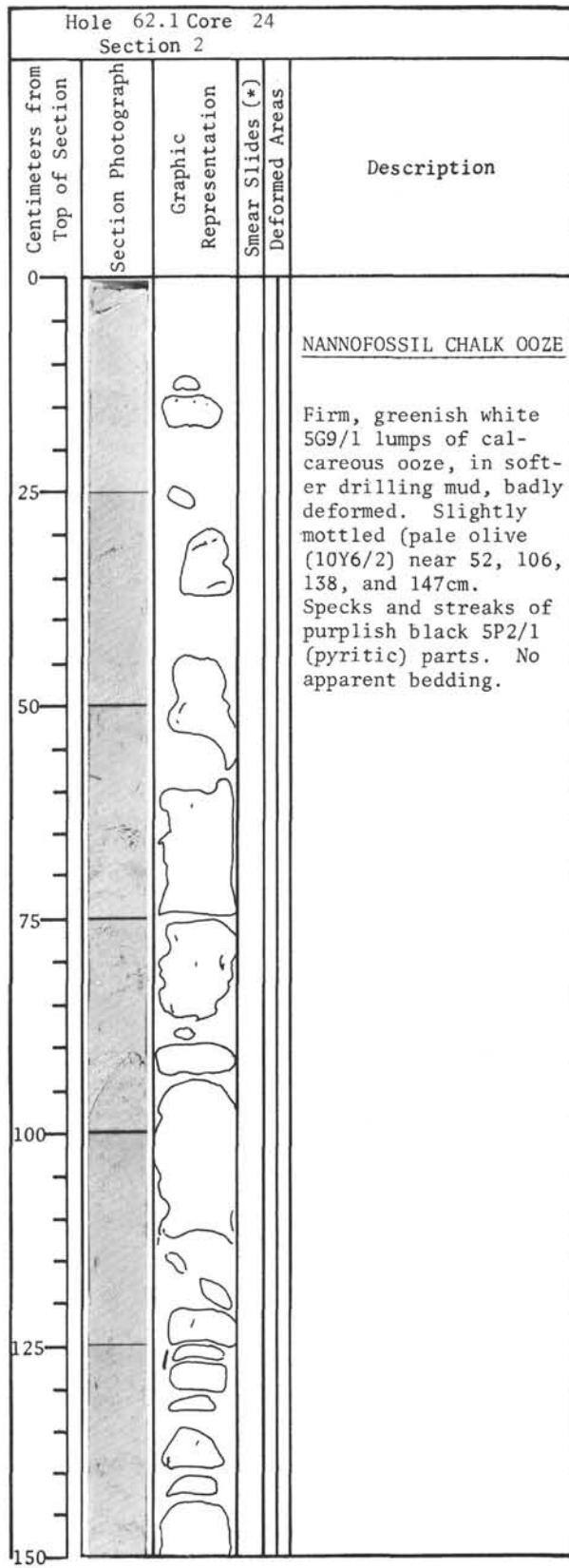
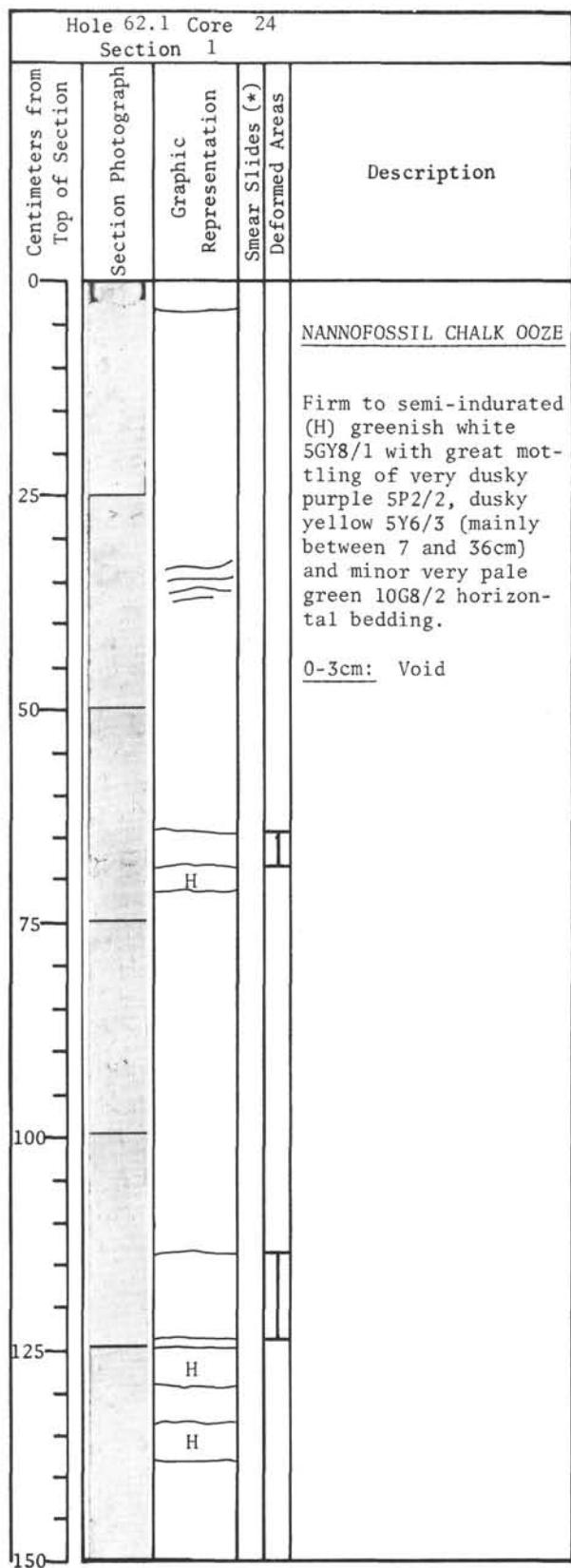


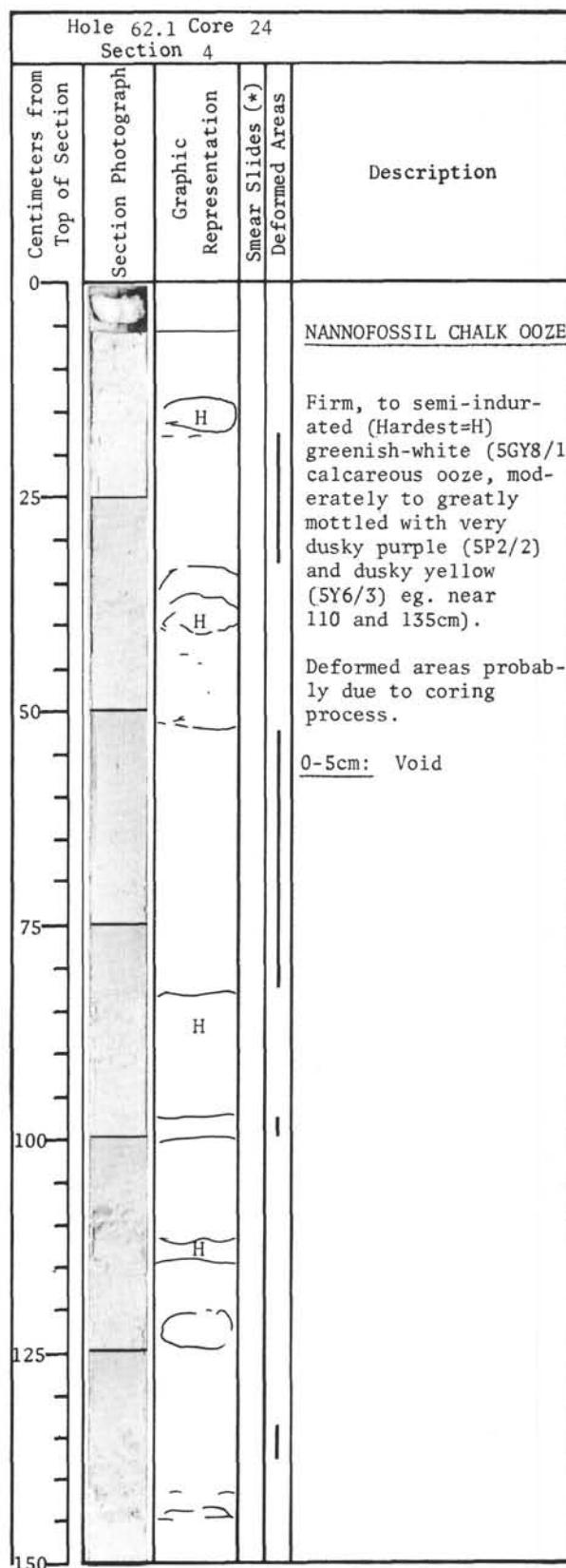
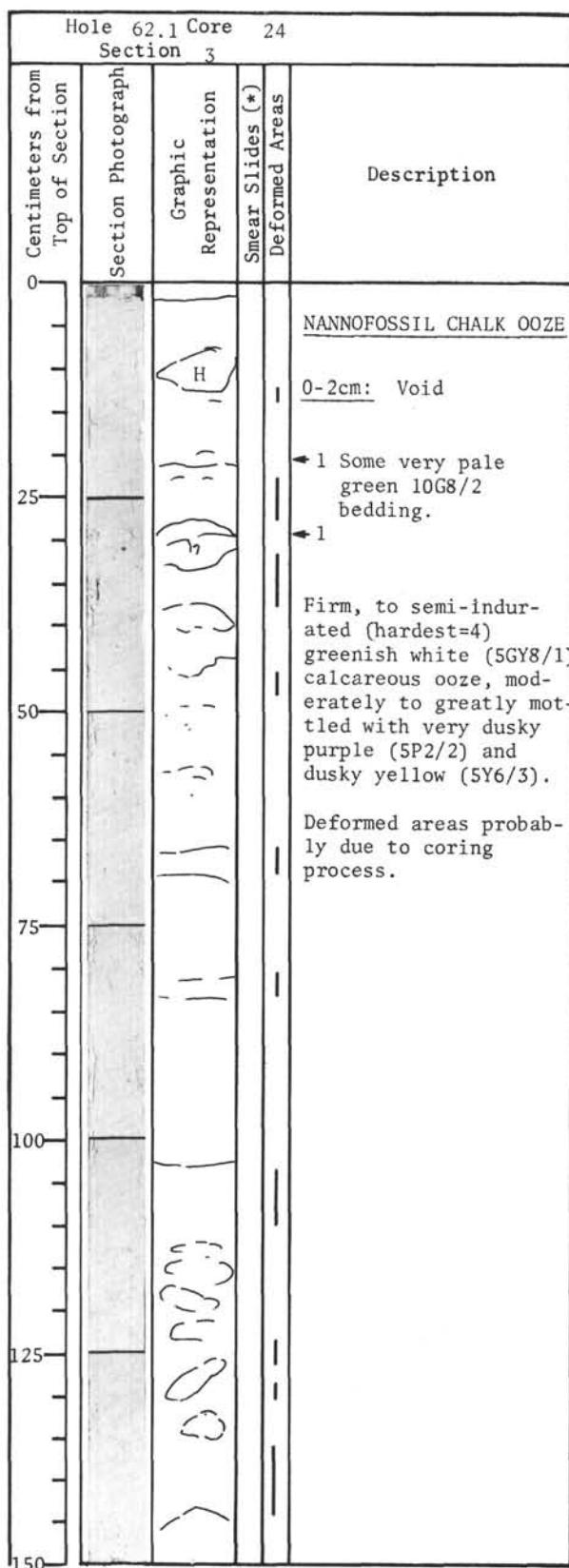


Lithology and biostratigraphy of Core 24, Hole 62.1.



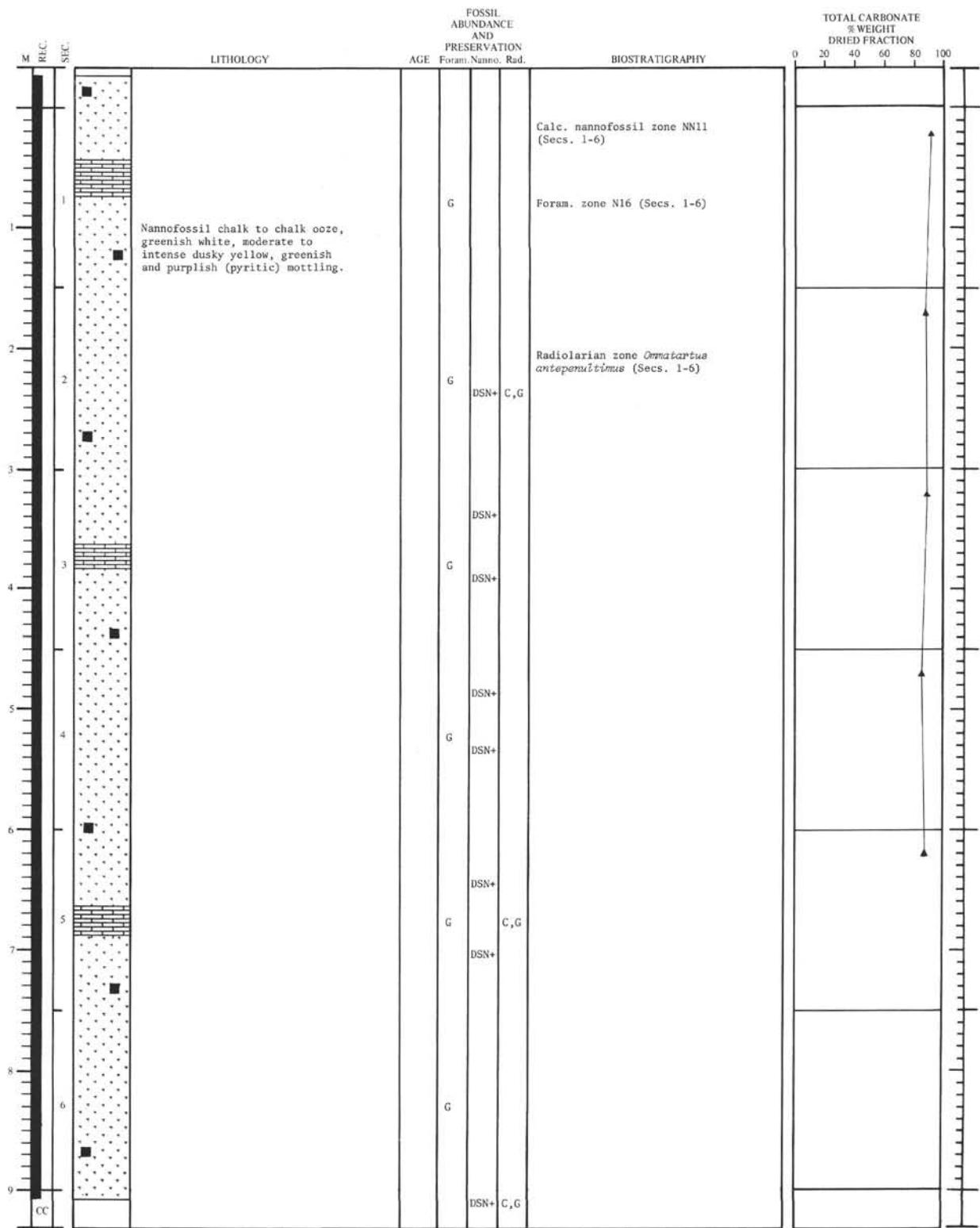
Physical properties of Core 24, Hole 62.1.



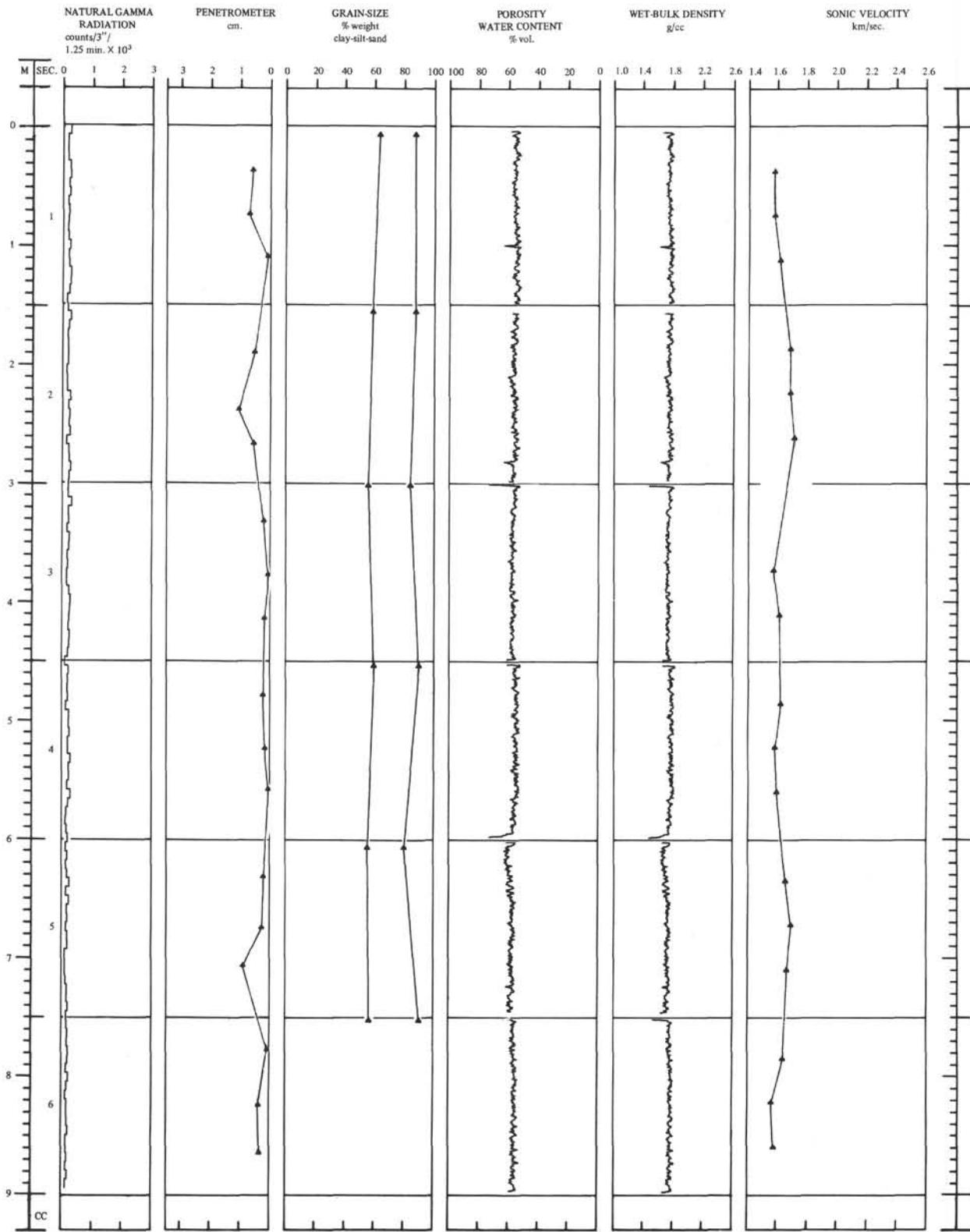


Hole 62.1 Core 24 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25			→ 2	NANNOFOSSIL CHALK OOZE
50			→ 1	
75			→ 4	
100			→ 5	Firm lumps (1) of ~ greenish white 5G9/1 calcareous ooze or chalk in (2) softer bluish white 5B9/1 or purplish white 5P9/1 paste from drilling. → 3
125			→ 5	Lumps slightly mottled (3) (pale olive 10Y6/2) and speckled and streaked from (4) pyrite (purplish black SP2/1).
150			→ 3	

Hole 62.1 Core 24 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25				NANNOFOSSIL CHALK OOZE
50			→ 1	Firm to semi-indurated pieces of greenish white (5GY8/1) calcareous ooze, with softer mud between (the mud probably churned and homogenized by the coring process); the ooze moderately to greatly
75			→ 1	mottled with very dusky purple (5P2/2), and especially near 30, 95, and 145cm with dusky yellow (5Y6/3). Some very pale green (10G8/2) beds and mottles (1).
100			→ 1	0-5cm: Void
125			→ 1	
150			→ 1	



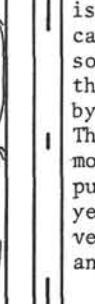
Lithology and biostratigraphy of Core 25, Hole 62.I.

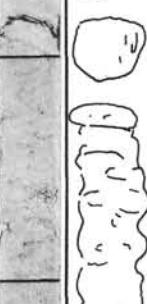
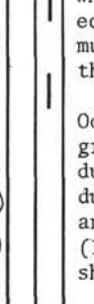
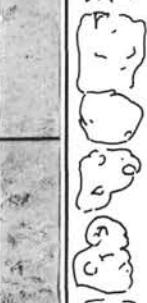
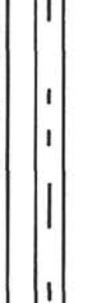
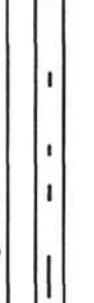
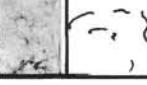


Physical properties of Core 25, Hole 62.1.

Hole 62.1 Core 25 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				NANNOFOSSIL CHALK OOZE 0-5cm: Void
50			→ 1 → 2	Pieces of (1) firm to semi-indurated greenish white (5G9/1) calcareous ooze with (2) softer mud between (the mud probably made by the coring process). The ooze is moderately to greatly mottled very dusky purple (SP2/2), and (3) dusky yellow (5Y6/3); some (4) very pale green (10G8/2) beds and mottles.
75			→ 4	
100			→ 4	
125			→ 4	
150				

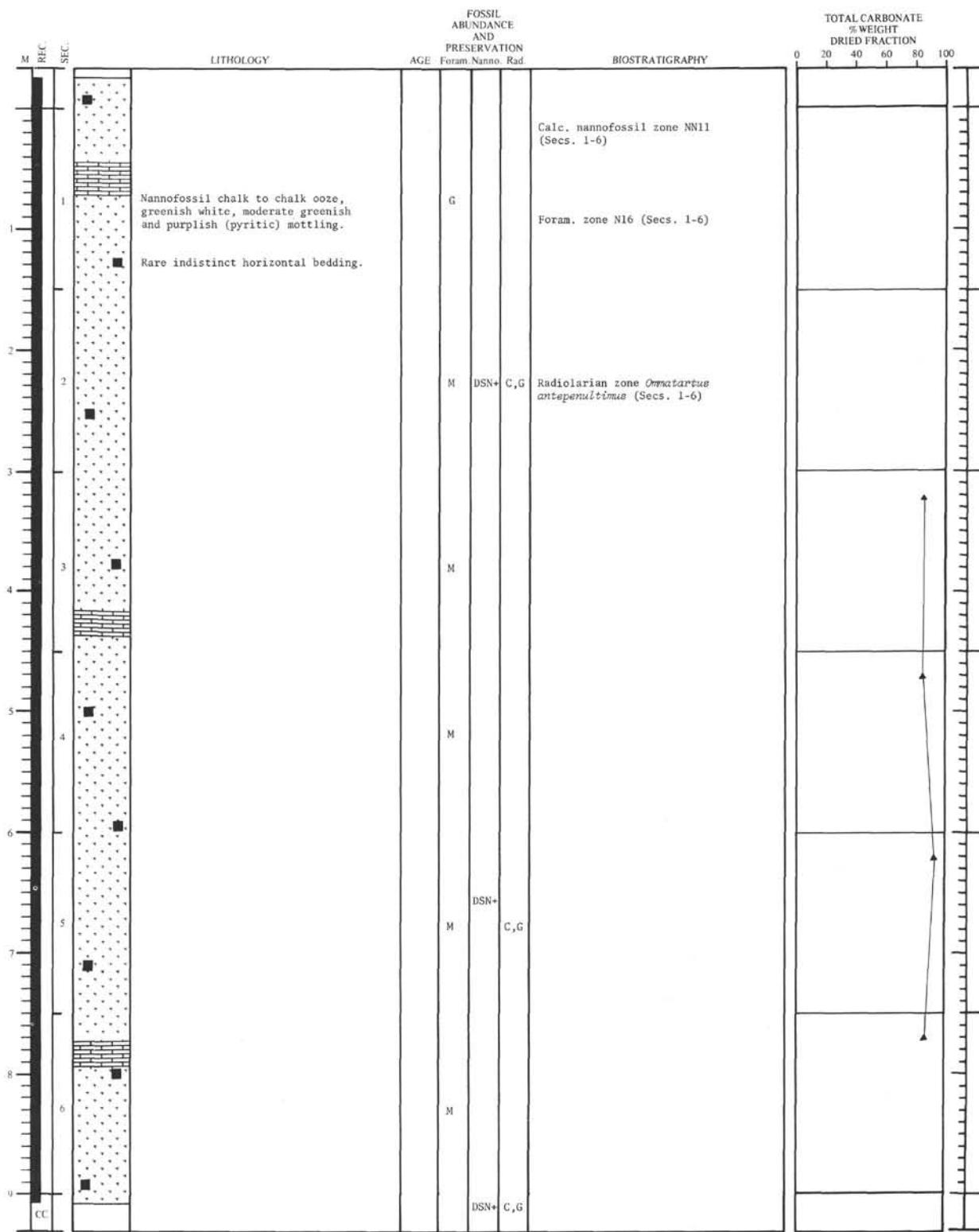
Hole 62.1 Core 25 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				NANNOFOSSIL CHALK OOZE
50			→ 3 → 3	Core deformed during drilling (and during splitting). Firmer lumps (1) of ~ greenish white 5G9/1 calcareous ooze or chalk in a softer (2) bluish white 5B9/1 paste from drilling. Slightly mottled with (3) pale olive 10Y6/2 at 12, 42, 58-75, 81-120, 132-136, and 145cm. Specks and streaks of (4) purplish black 5P2/1, from pyritic areas.
75			→ 1 → 2	
100				0-5cm: Void
125			→ 3	
150			→ 5	

Hole 62.1 Core 25 Section 3			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			NANNOFOSSIL CHALK OOZE Pieces of (1) firm to semi-indurated greenish white (5GY8/1) calcareous ooze, with (2) softer mud between; the mud probably made by the coring process. The ooze is greatly mottled very dusky purple (5P2/2), dusky yellow (5Y6/3), at very pale green 10G8/2, and nearby shades.
50			<u>0-3cm:</u> Void →1 →2
75			
100			
125			
150			

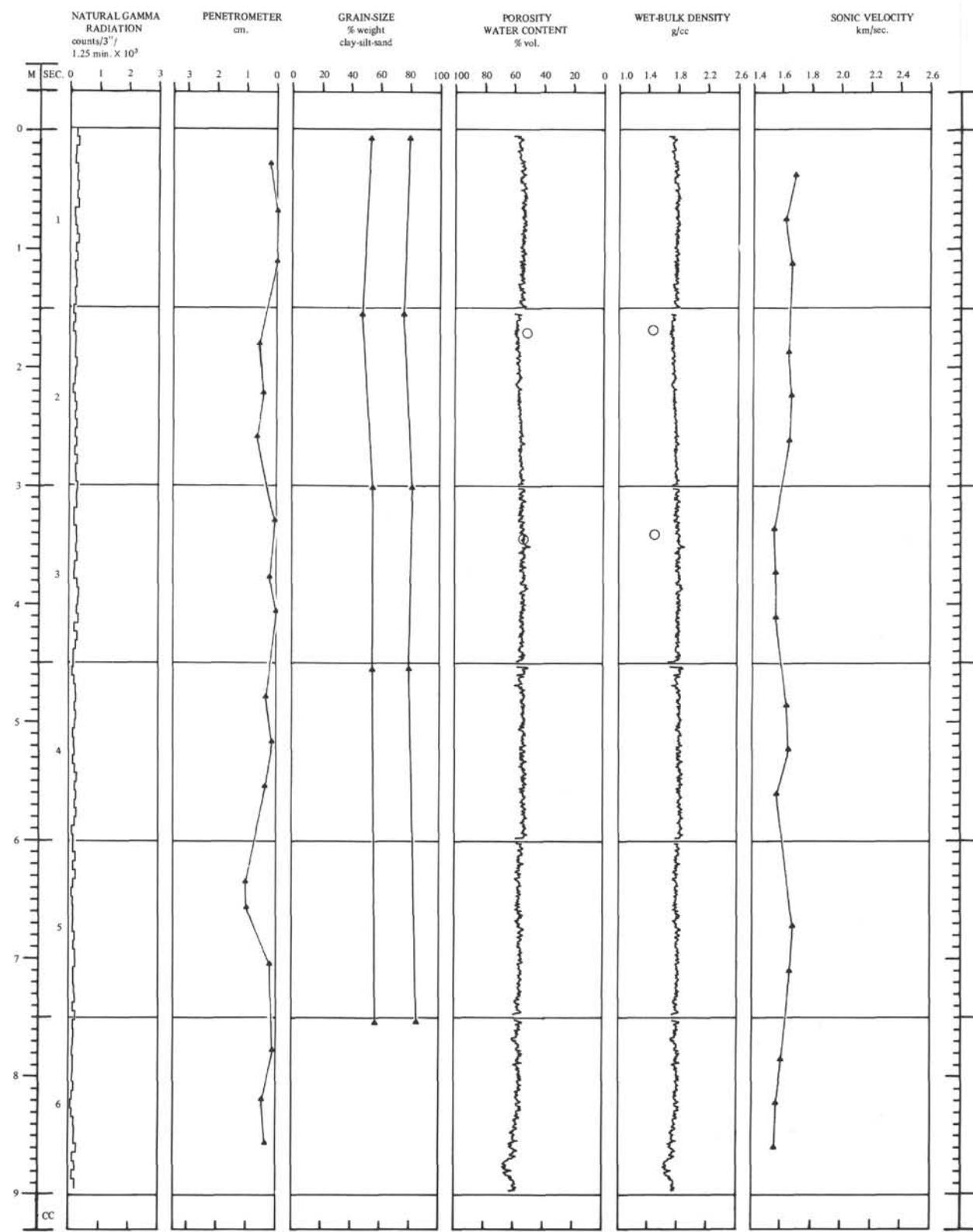
Hole 62.1 Core 25 Section 4			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			
25			NANNOFOSSIL CHALK OOZE Pieces of firm to semi-indurated greenish white (5GY8/1) calcareous ooze, with softer mud probably made by the coring process.
50			Ooze moderately to greatly mottled very dusky purple (5P2/2), dusky yellow (5Y6/3) and very pale green (10G8/2) and nearby shades. <u>0-4cm:</u> Void
75			
100			
125			
150			

Hole 62.1 Core 25 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

Hole 62.1 Core 25 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				



Lithology and biostratigraphy of Core 26, Hole 62.1.



Physical properties of Core 26, Hole 62.1.

Hole 62.1 Core 26 Section 1			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
		Smear Slides (*) Deformed Areas	
0			
25			
50			
75			
100			
125			
150			
0			
25			
50			
75			
100			
125			
150			

Hole 62.1 Core 26 Section 2			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
		Smear Slides (*) Deformed Areas	
0			
25			
50			
75			
100			
125			
150			
0			
25			
50			
75			
100			
125			
150			

Hole 62.1 Core 26 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

← 2
Pieces of firm to semi-indurated greenish white (5GY8/1) calcareous ooze, broken and displaced but not badly deformed by coring with softer mud between pieces, the mud probably made out of the ooze during the drilling process.

← 1
← 1
Great and moderate mottles and beds of (1) Yellowish gray SY7/2.
(2) Very pale green 10G8/2.

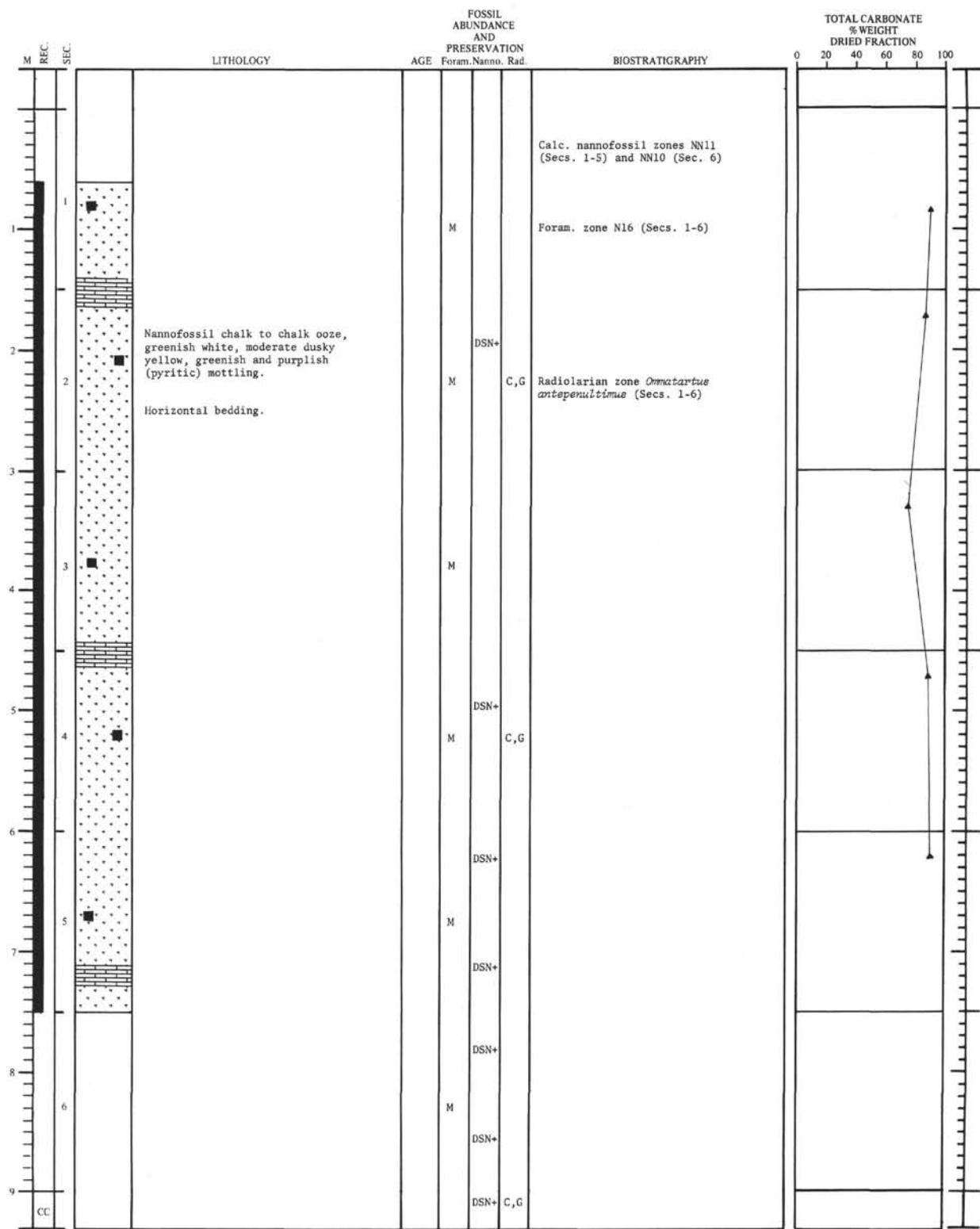
← 1
← 2
← 2
← 2
← 1
0-3cm: Void

Hole 62.1 Core 26 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

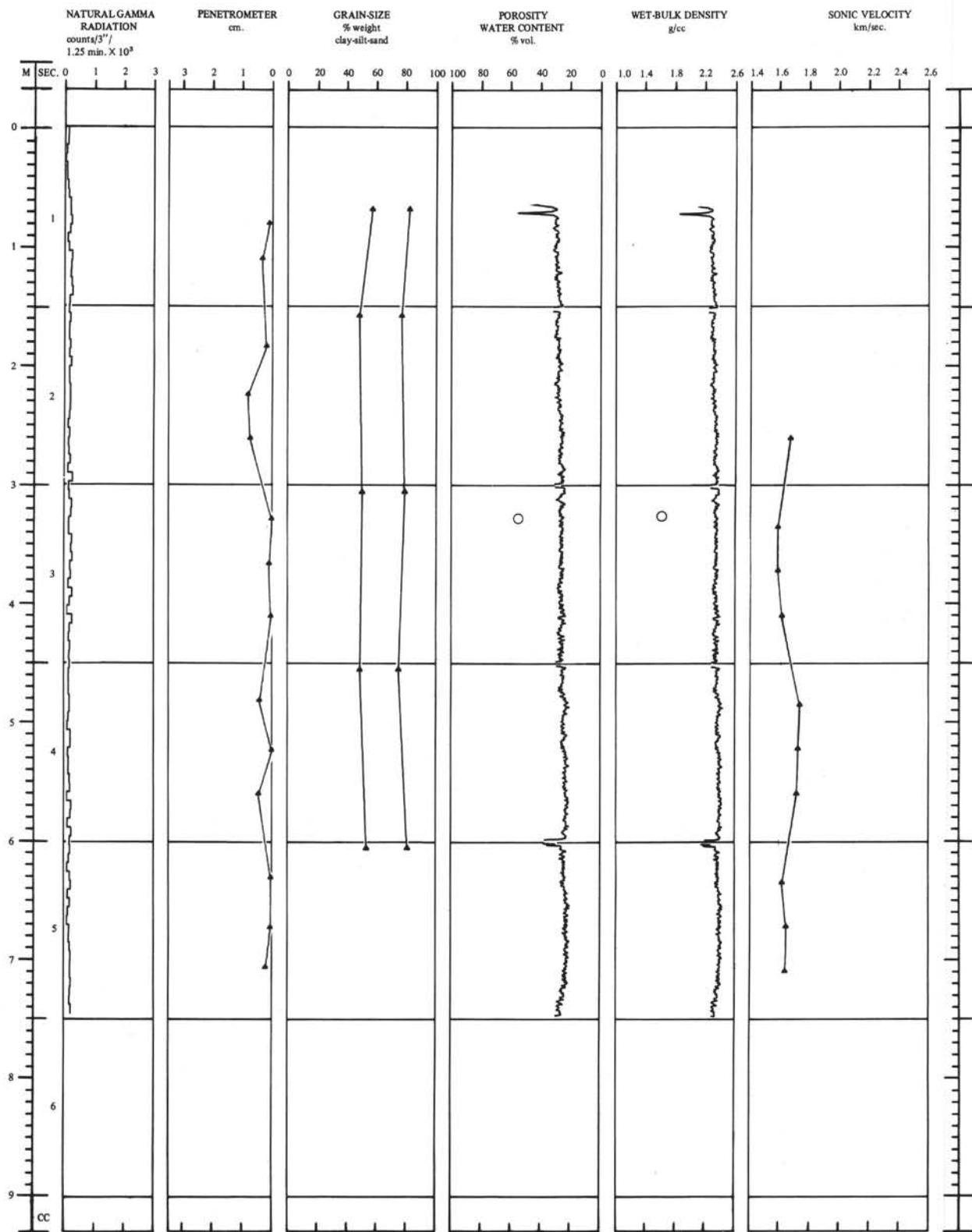
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Hole 62.1 Core 26 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				NANNOFOSSIL CHALK OOZE to NANNOFOSSIL CHALK Core deformed during drilling.
50				Firmer pieces of mainly greenish white 5G 9/1 to purplish white 5P9/1 calcareous ooze to chalk in a softer purplish white 5P9/1 to very light gray N8 paste from drilling. Slightly mottled (to moderately mottled at ~ 40 and 130cm). Pale olive 10Y6/2. Streaks and specks of purplish black 5P2/1; (pyritic) lighter purplish tints where smeared into the rest of the ooze.
75				
100				
125				→ 1 → 1 Large olive mottles → 1 → 1
150				

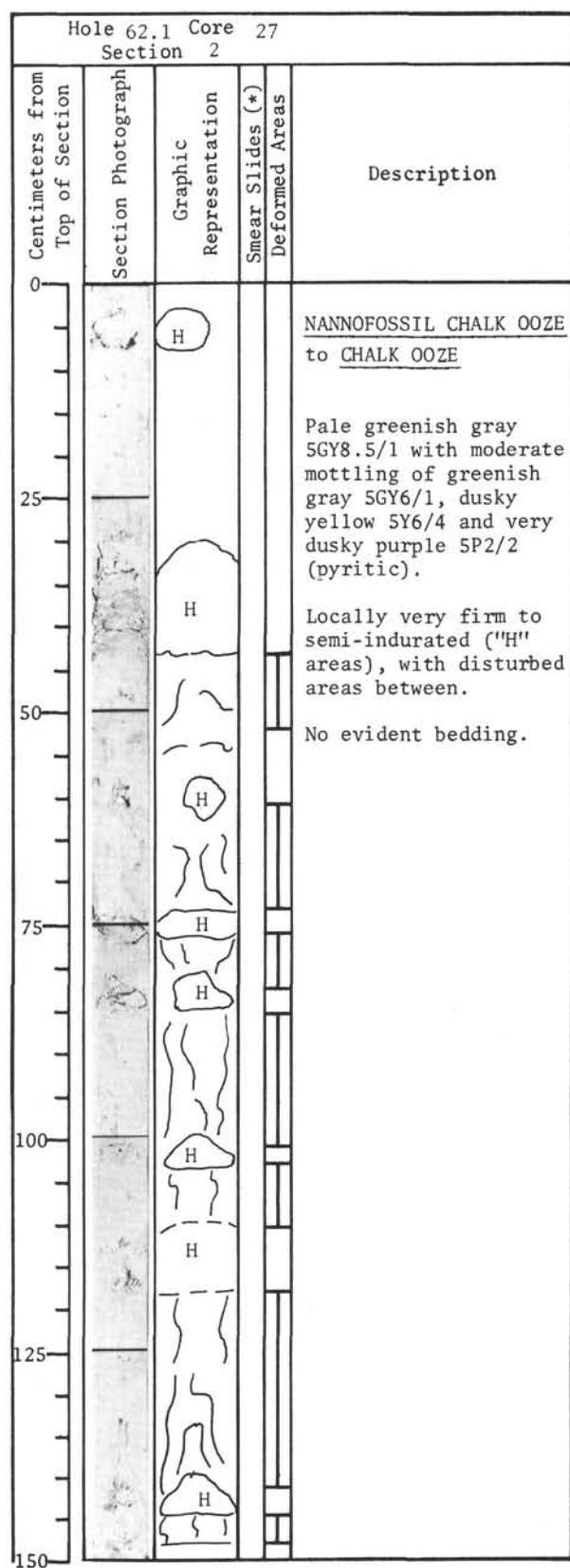
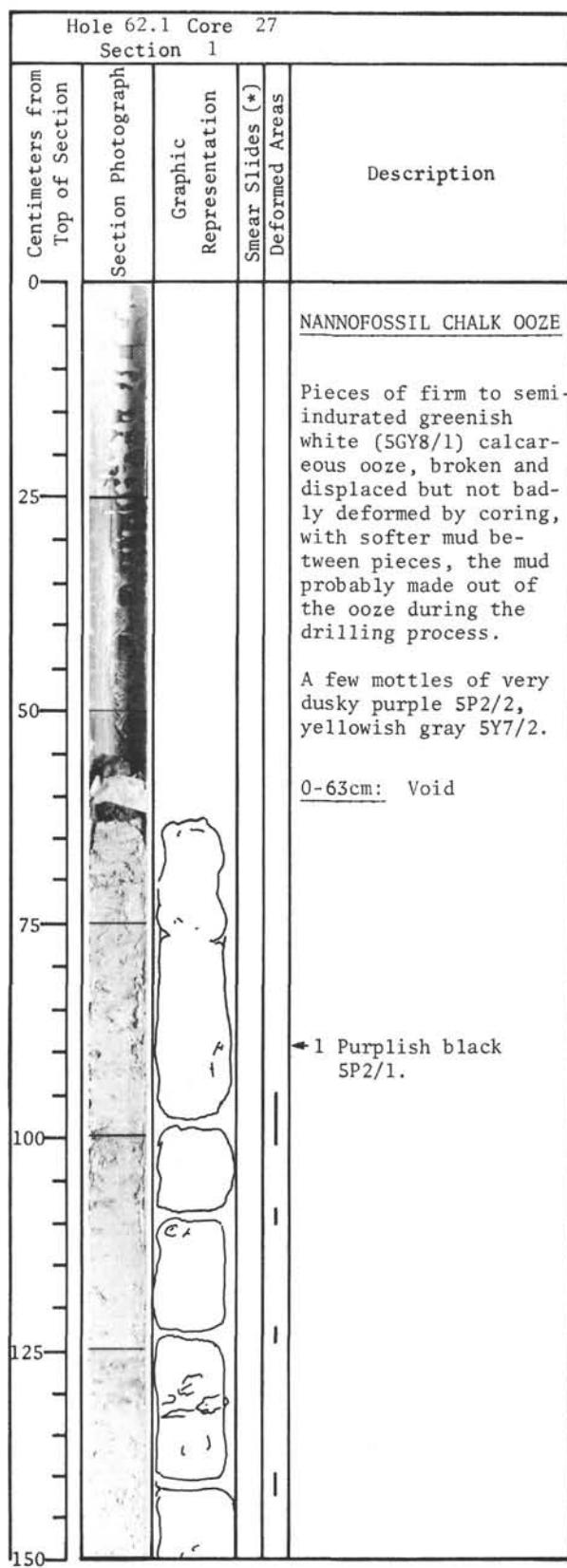
Hole 62.1 Core 26 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				NANNOFOSSIL CHALK OOZE 0-3cm: Void
50				→ 1 Pieces of firm to semi-indurated greenish white (5GY8/1) calcareous ooze, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.
75				Mottles of: (3) Very pale purple 5P7/2. (1) Yellowish gray 5Y7/2 and beds. (2) Very pale green 10G8/2 and beds.
100				→ 2 → 3 → 1 → 1 → 1
125				→ 1 → 1
150				

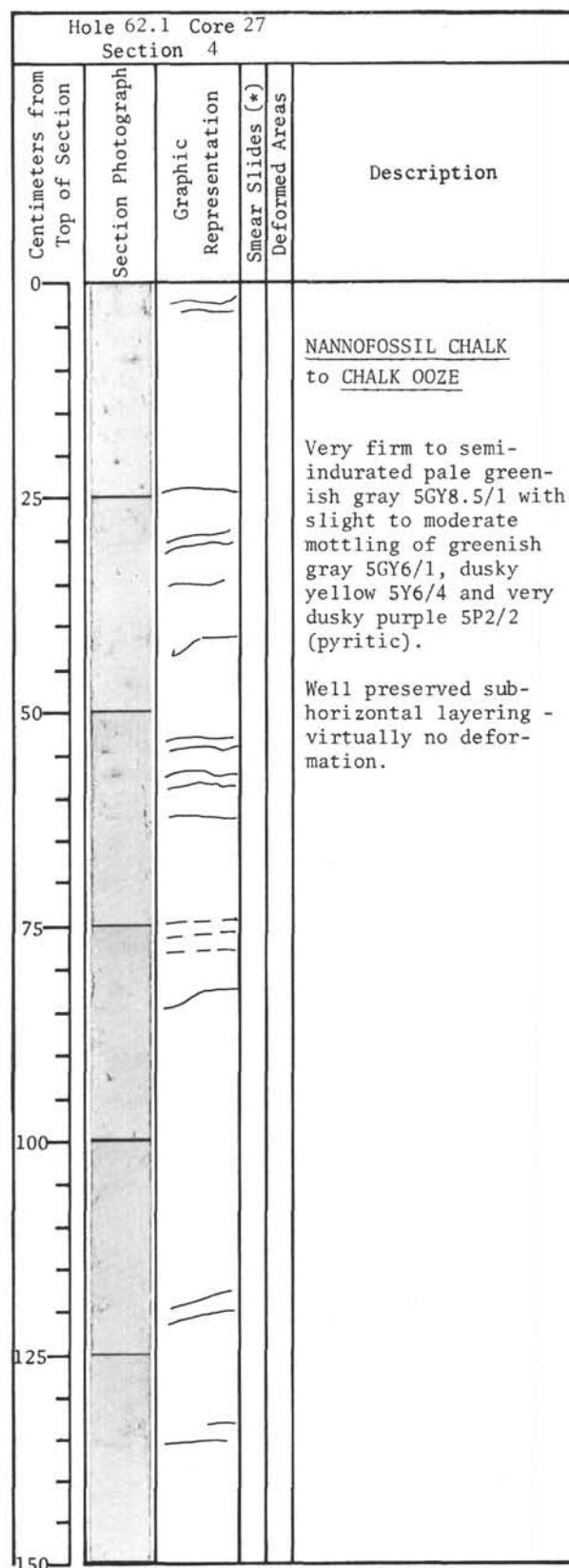
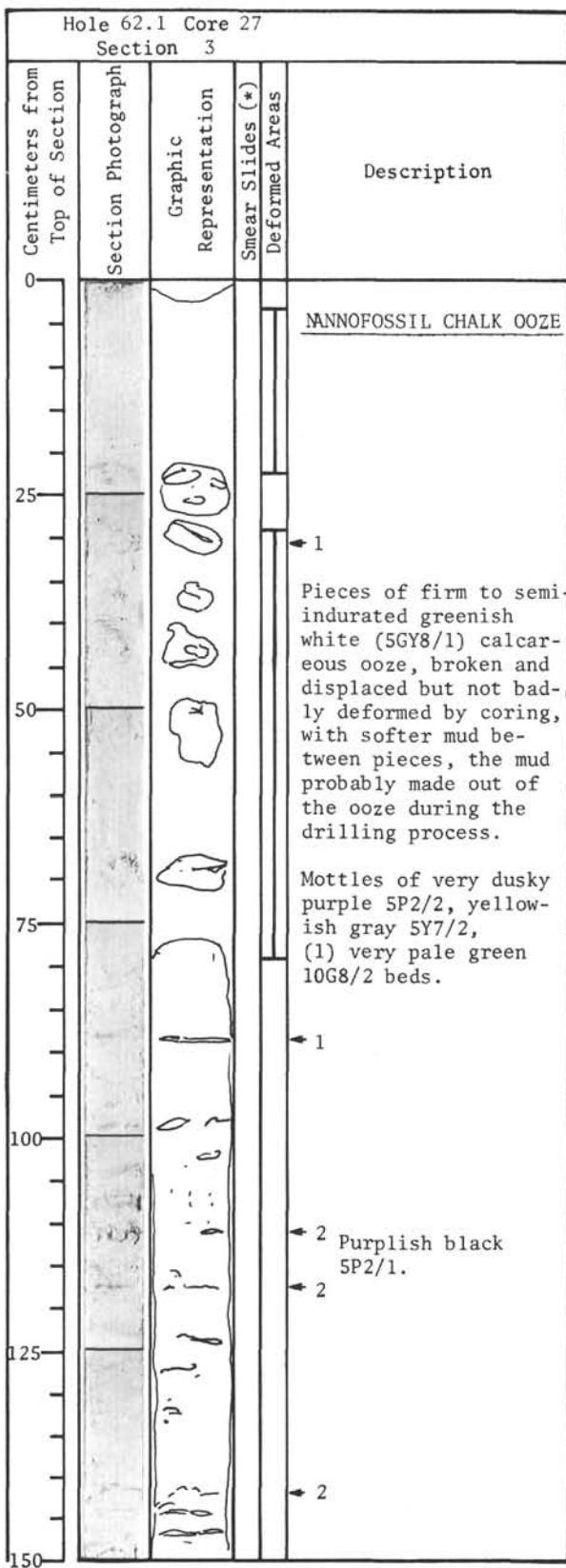


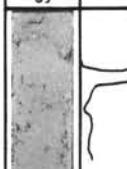
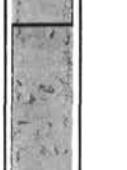
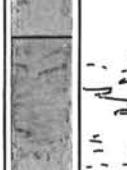
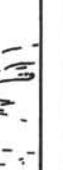
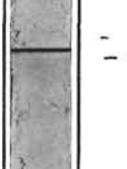
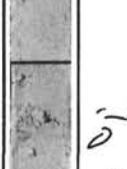
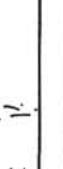
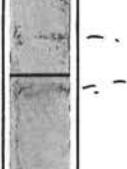
Lithology and biostratigraphy of Core 27, Hole 62.1.

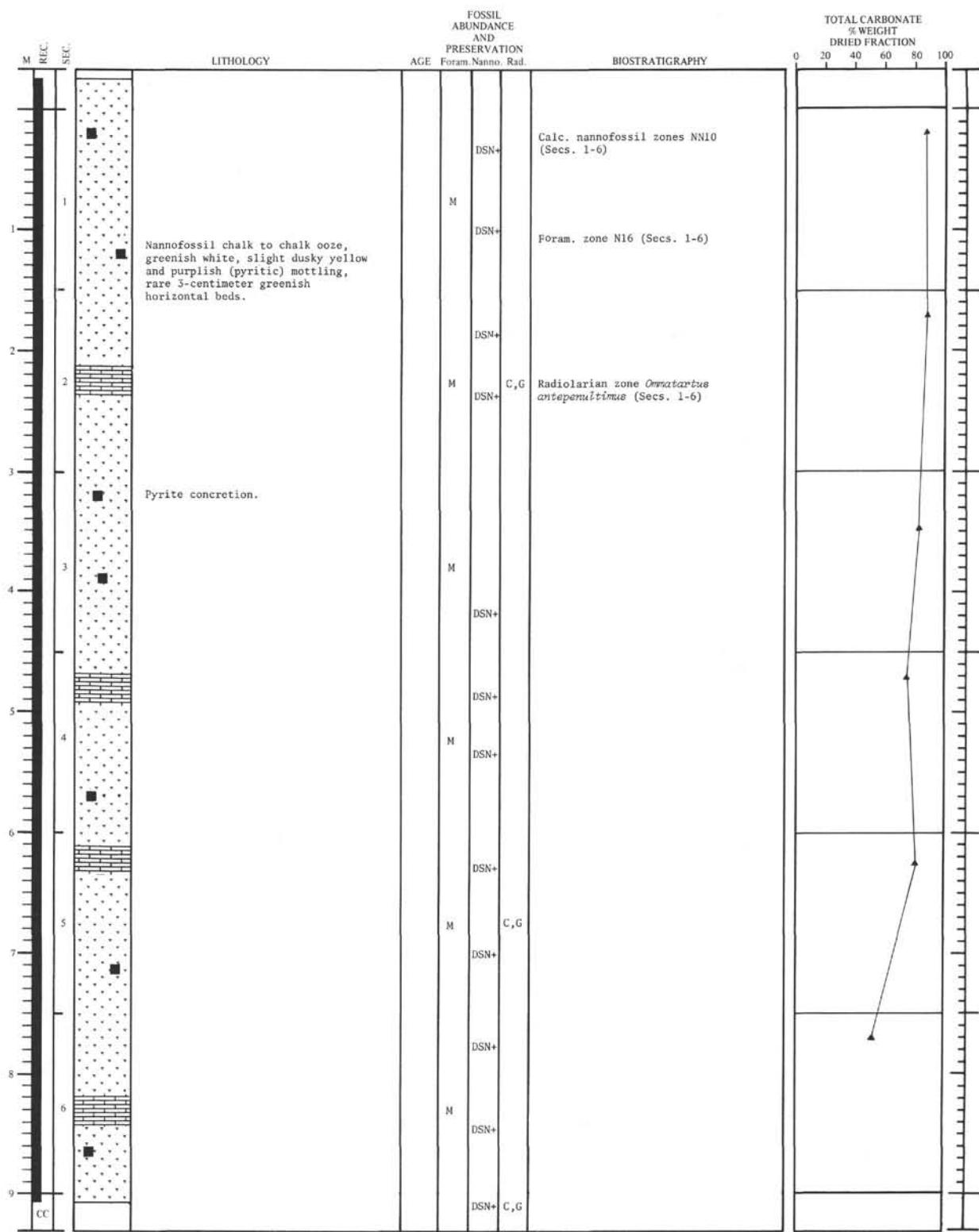


Physical properties of Core 27, Hole 62.1.

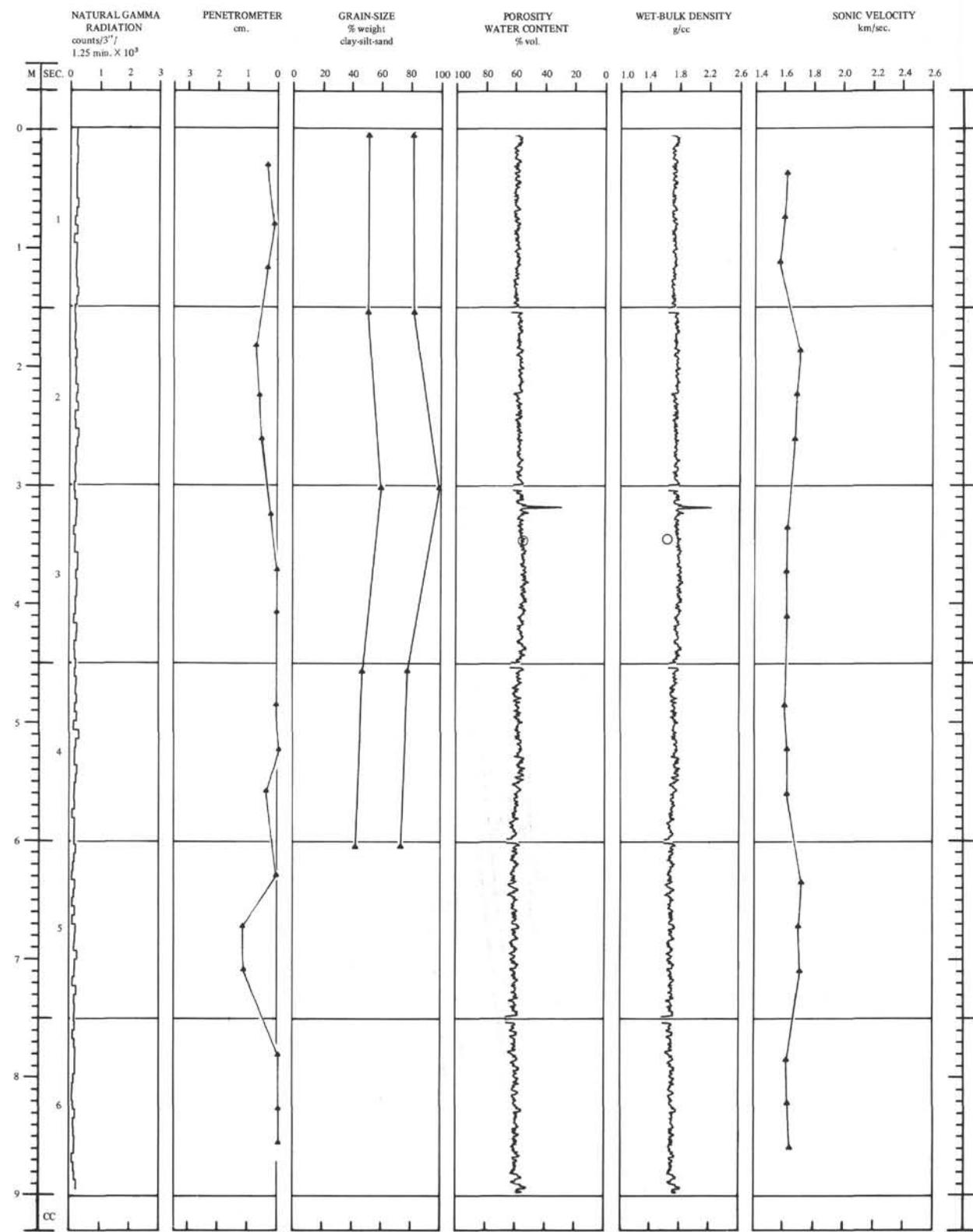




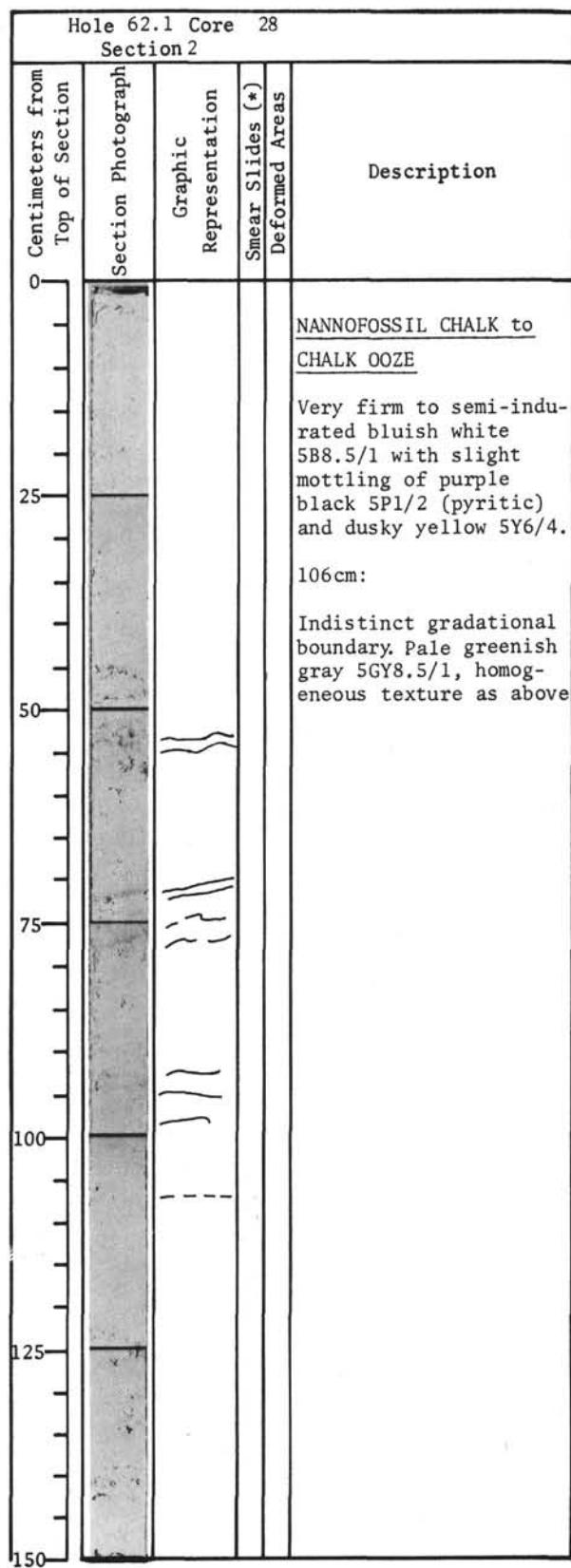
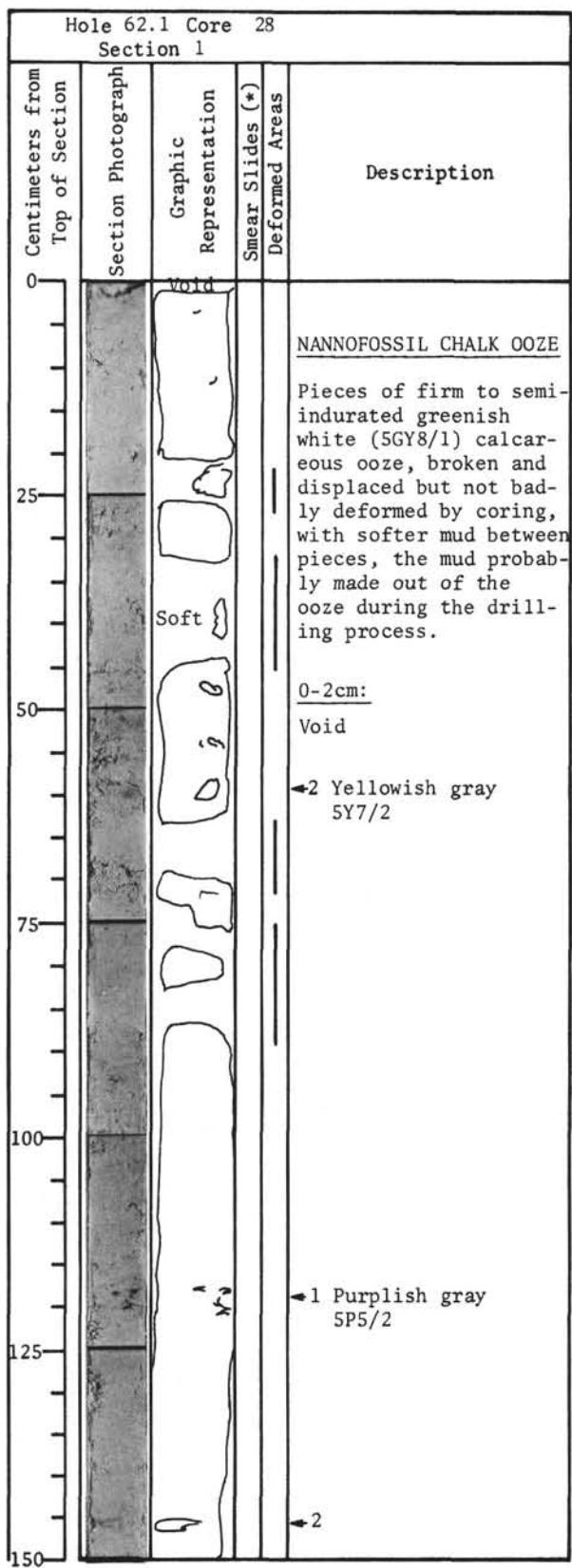
Hole 62.1 Core 27 Section 5			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			← 1 Soft <u>NANNOFOSSIL CHALK OOZE</u>
25			Upper ~50cm, and 85-151cm, nearly featureless.
50			50-63cm: moderate mottles of very dusky purple 5P2/2, very pale green mottles and beds.
75			Firm to semi-indurated greenish white (5GY8/1) calcareous ooze, broken and displaced but not badly deformed by coring.
100			
125			← 2 Yellowish gray 5Y7/2 mottles.
150			



Lithology and biostratigraphy of Core 28, Hole 62.1.



Physical properties of Core 28, Hole 62.1.



Hole 62.1 Core 28 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

Probably part of this disturbance is from sawing through the pyrite nodule.

2 Pyrite nodule, ~ 1.2 cm diameter x 4.2 cm long.

3 Pale purple 5P7/2.

3

Pieces of firm to semi-indurated greenish white (5GY8/1) calcareous ooze, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.

Mottles of purplish gray 5P5/2 very pale green 10G8/2 beds ~ 3 mm thick at 75 and 131 cm.

Hole 62.1 Core 28 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

Pieces of firm to semi-indurated greenish white (5GY8/1) calcareous ooze, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.

Mottles of very dusky purple 5P2/2 yellowish gray 5Y7/2.

1 Pale green 10G6/2 beds and mottles.

1

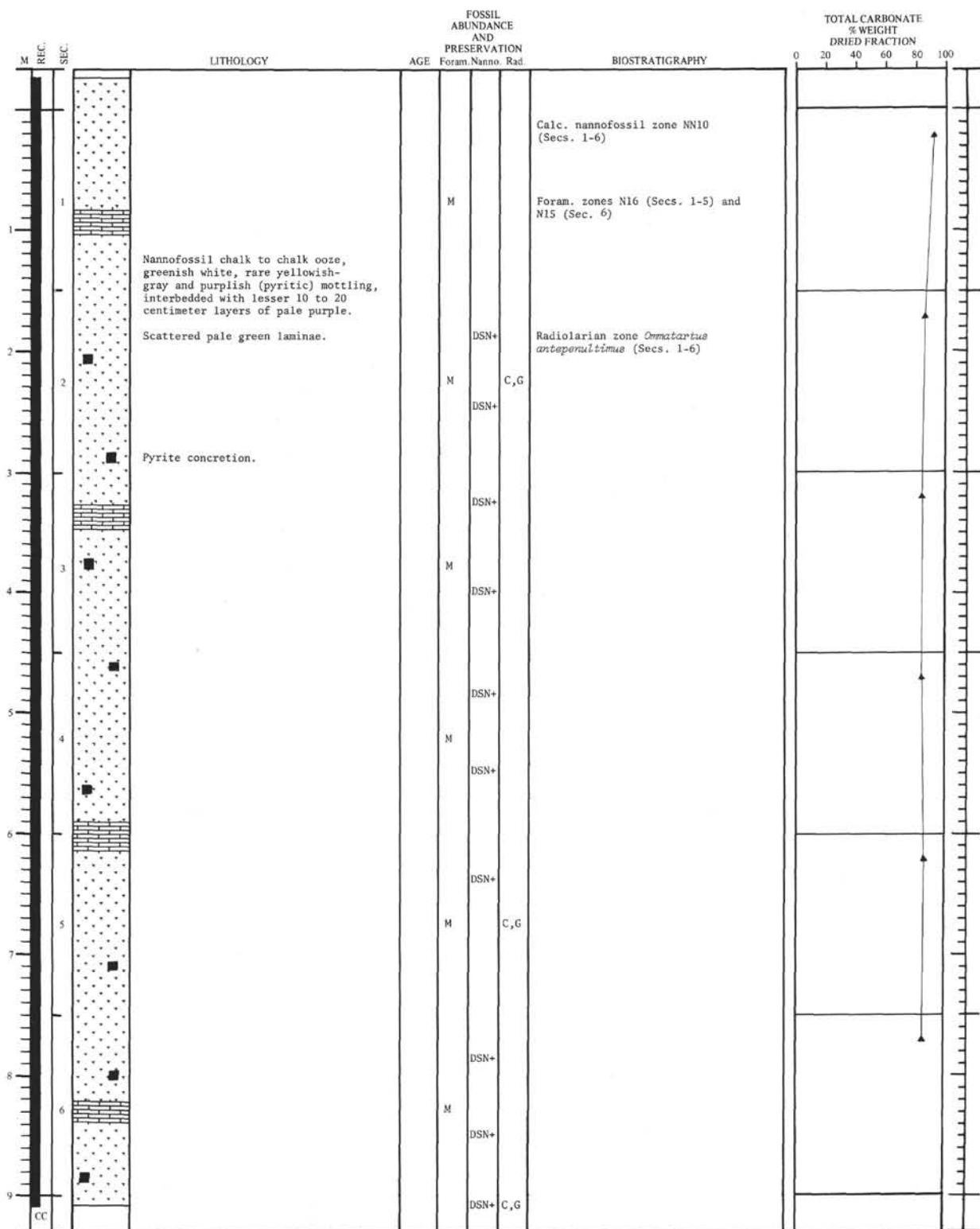
1

1

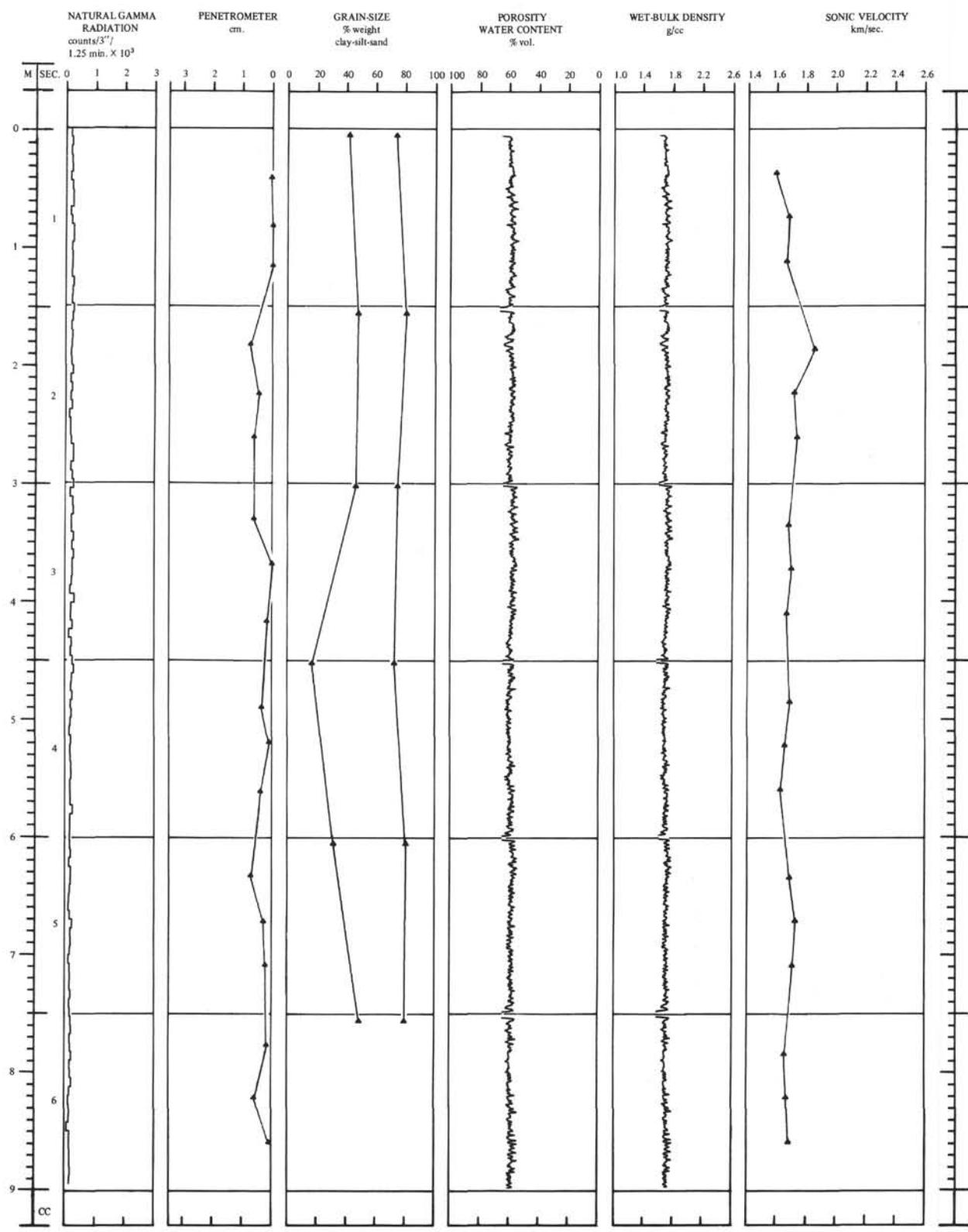
2 Purplish black (5P2/1).

Hole 62.1 Core 28 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

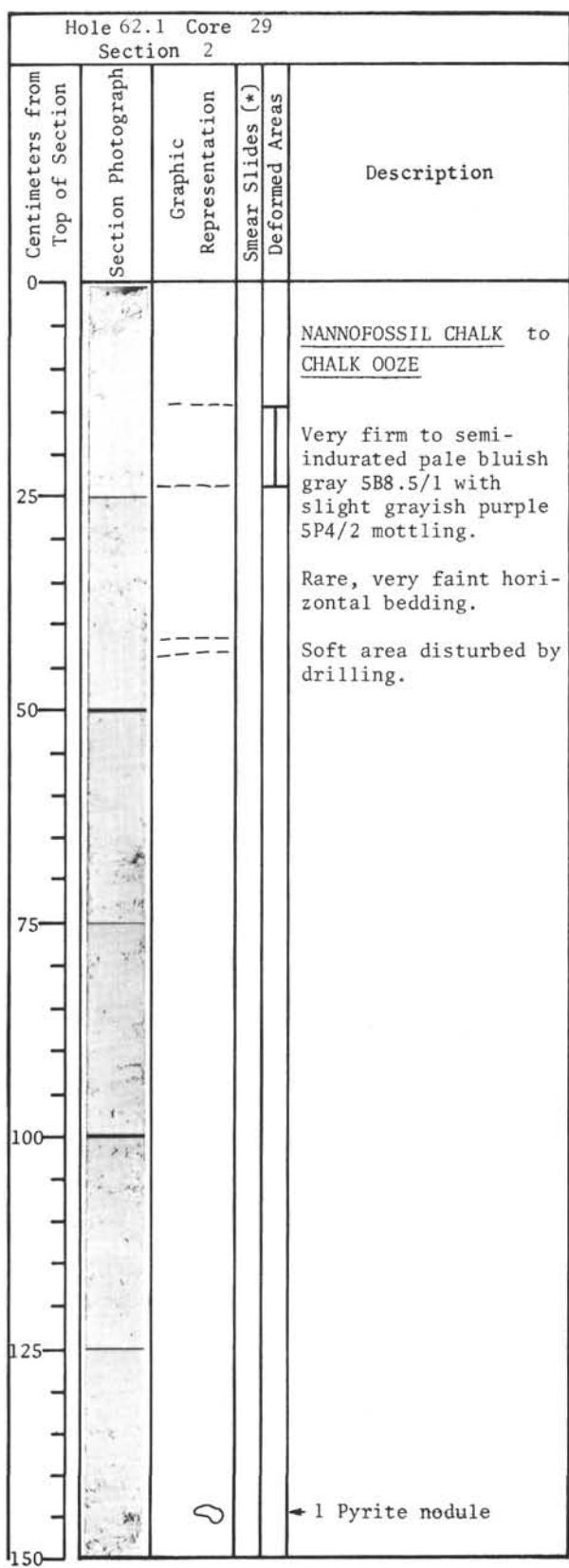
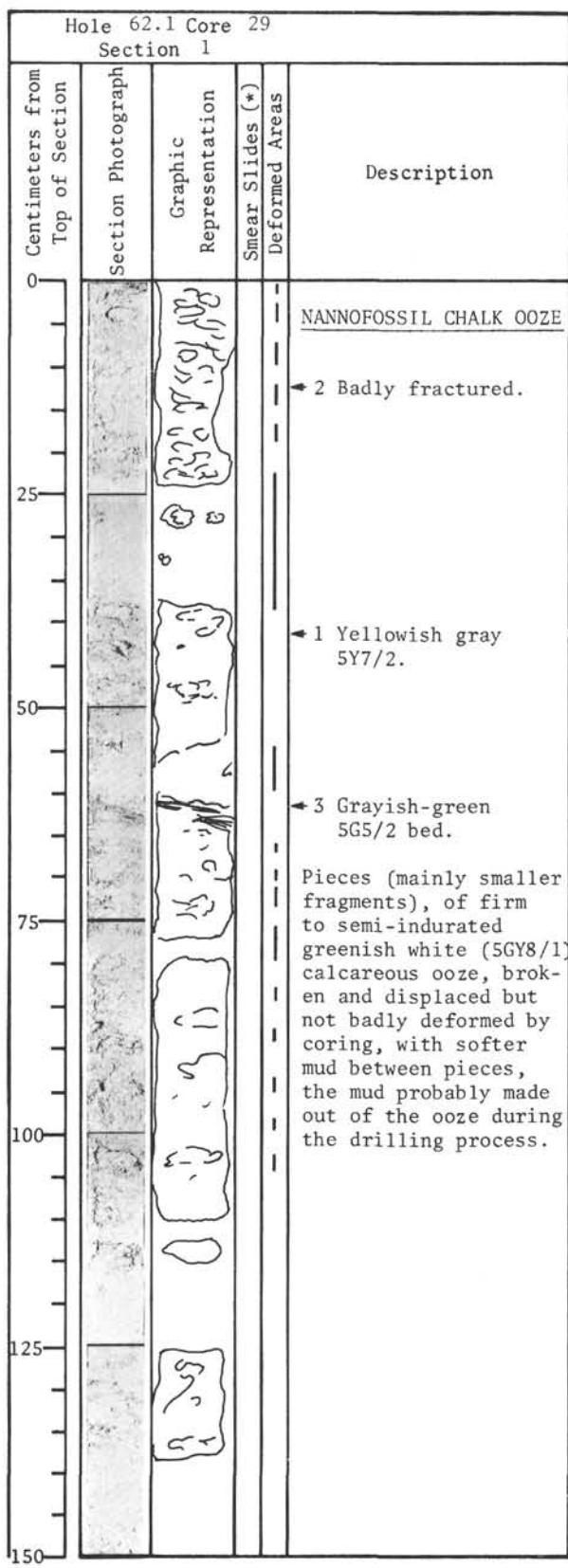
Hole 62.1 Core 28 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25		Soft		
50		Hard		
75				
100				
125				
150				

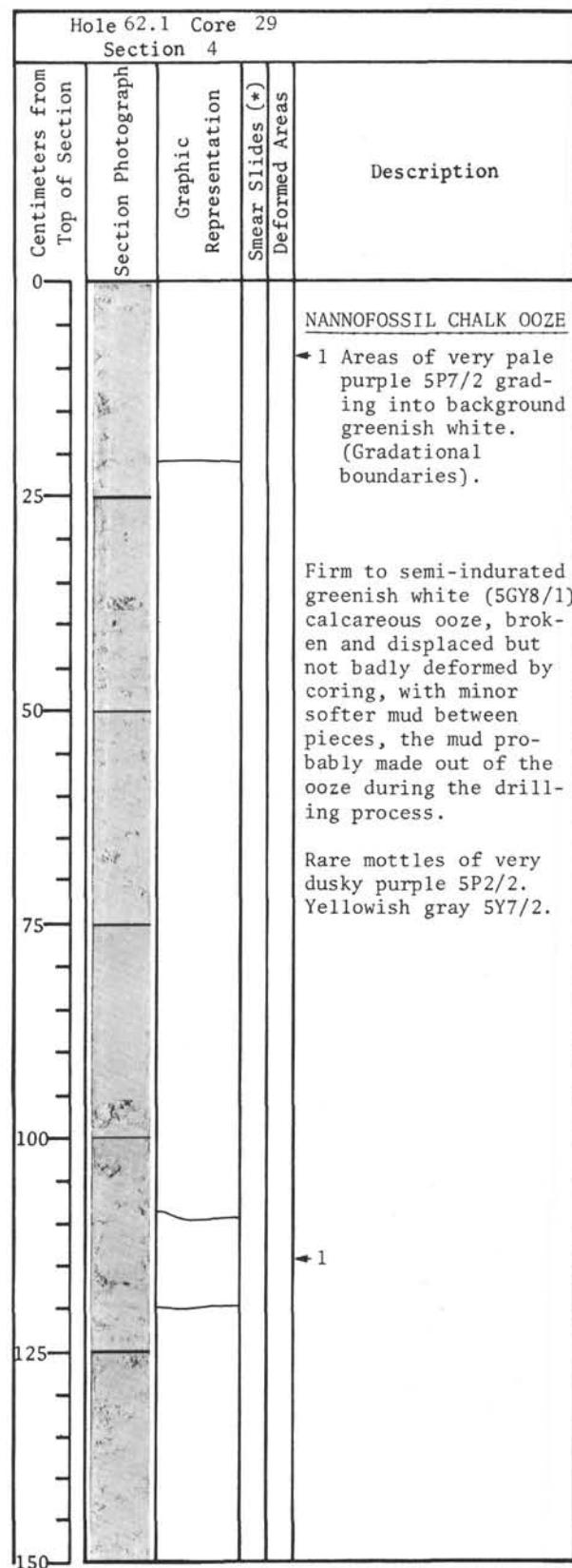
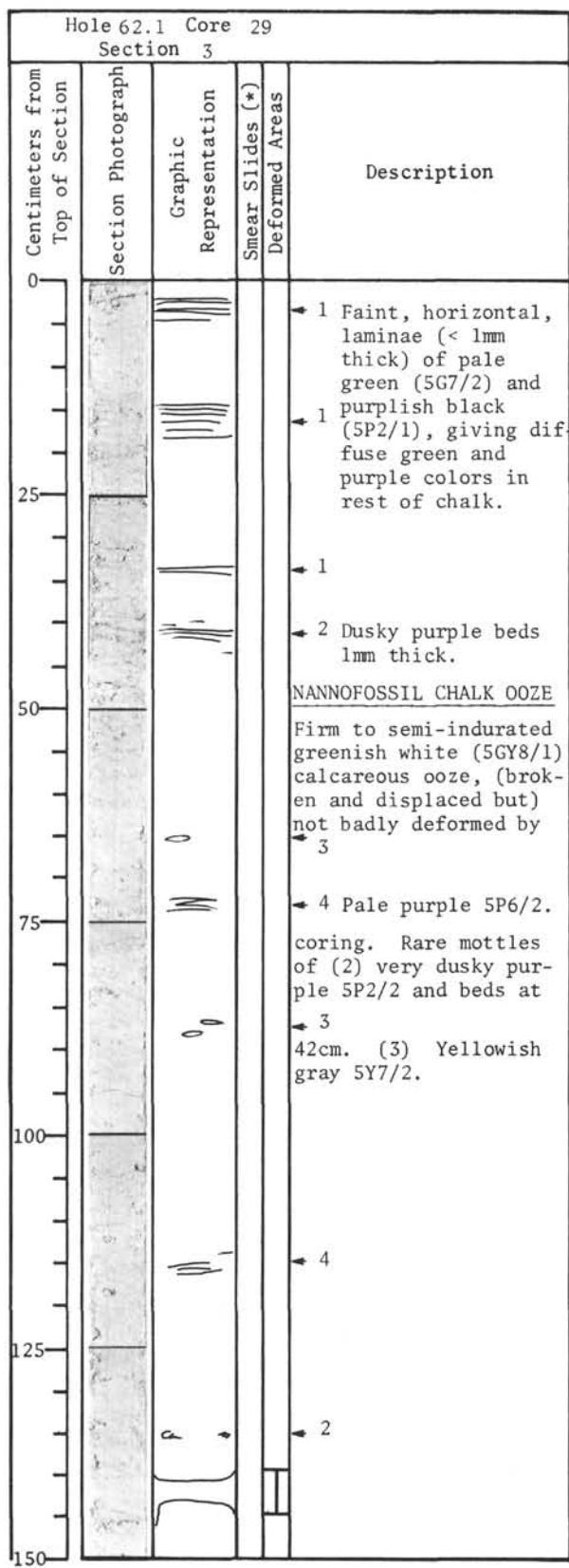


Lithology and biostratigraphy of Core 29, Hole 62.1.



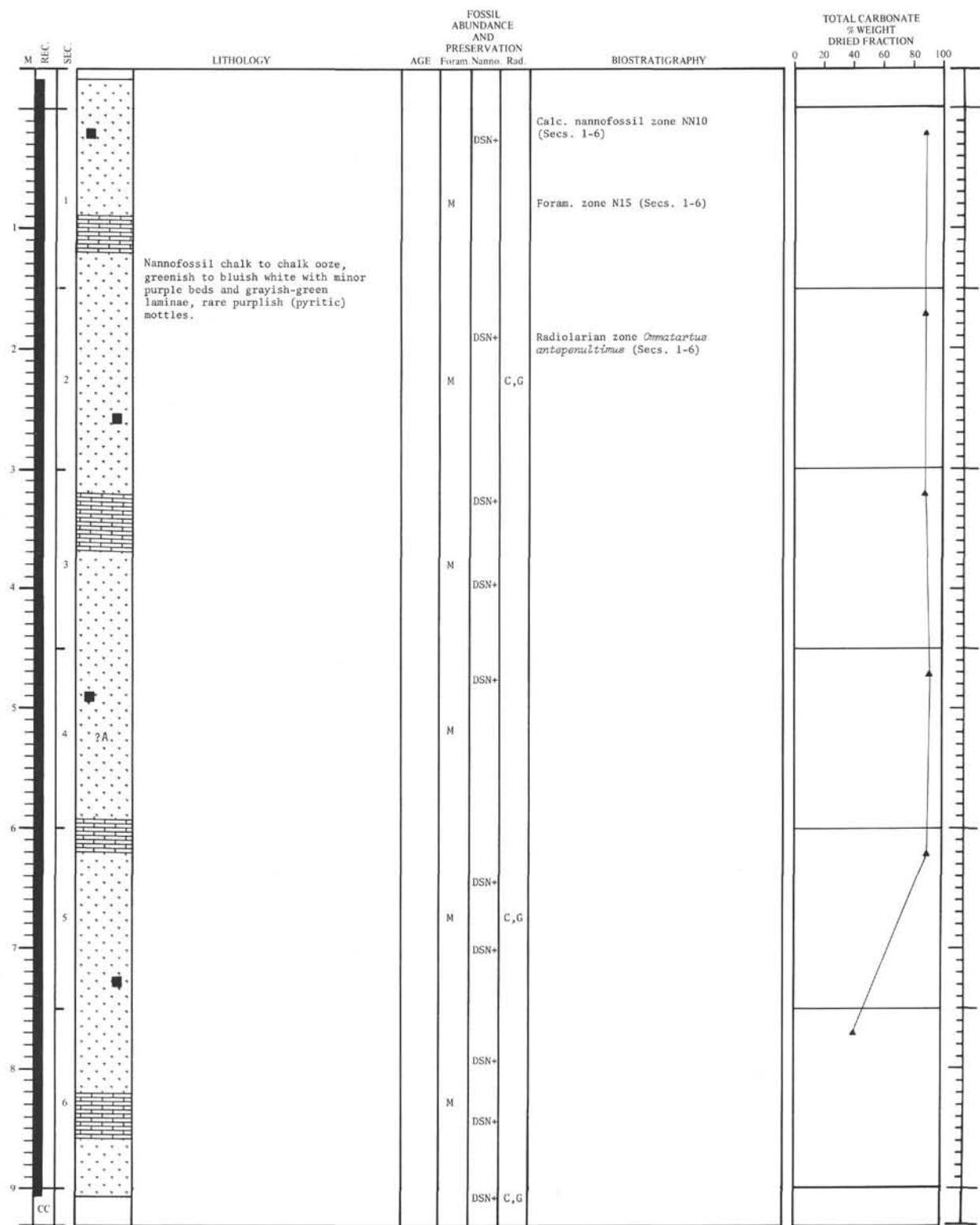
Physical properties of Core 29, Hole 62.1.



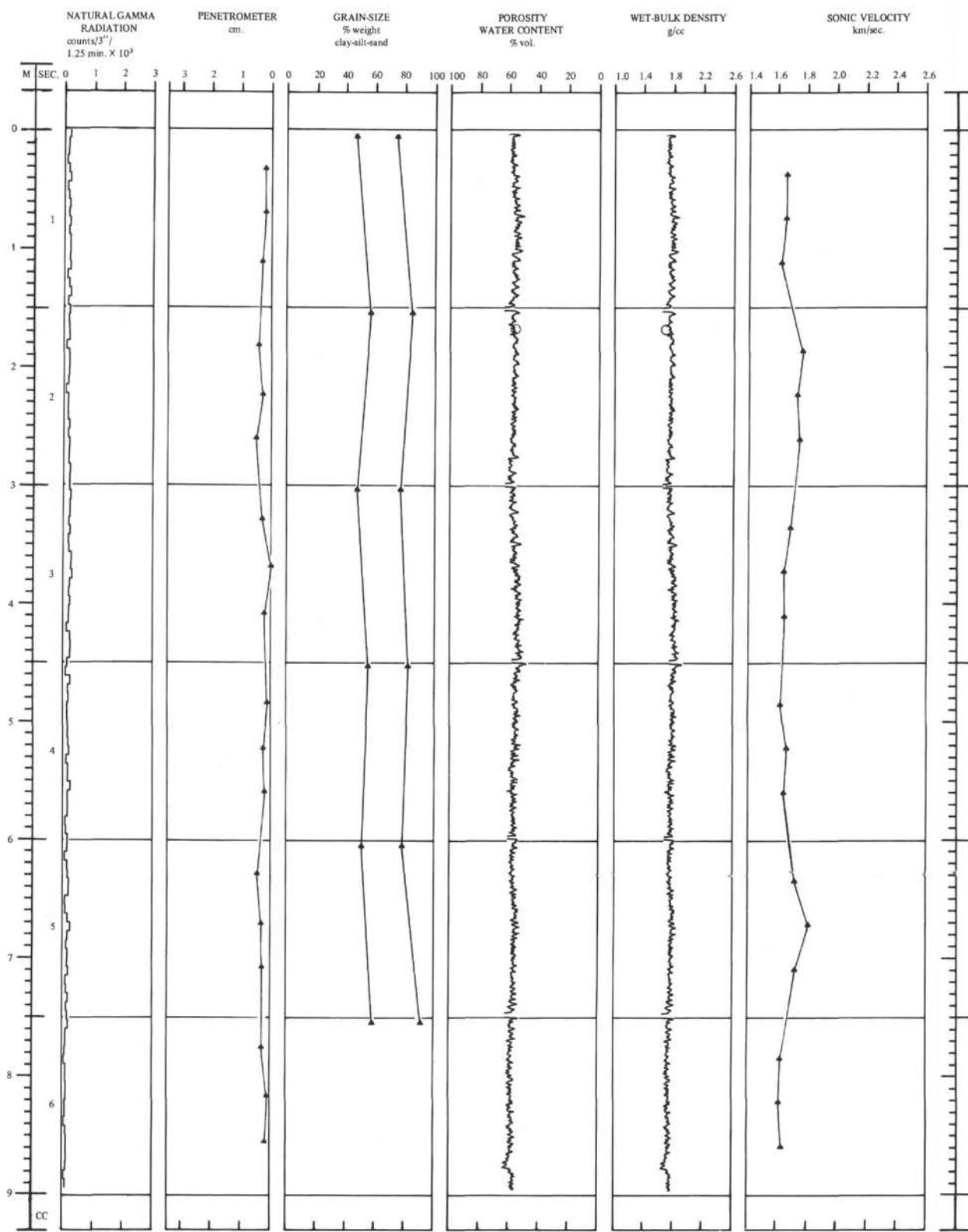


Hole 62.1 Core 29 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				NANNOFOSSIL CHALK OOZE
25				0-110cm: Homogeneous semi-indurated pale greenish gray 5GY8.5/1.
50				110-137cm: Pale red purple 5RP7/2 pyritic ooze as above.
75				131-150cm: As 0-110cm.
100				
125				→ 1 Indistinct gradational boundaries.
150				→ 1

Hole 62.1 Core 29 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				NANNOFOSSIL CHALK OOZE
25				→ 1 → 1 Sharp boundaries 1
50				2-13cm: Greenish white 5GY9/1.
75				13-17cm: Greenish gray 5G6/1 with laminae of dark greenish gray 5G4/1.
100				17-70cm: Pale purple 5P7/2 grading very gradually to greenish white 5GY9/1 at base.
125				Very gradual boundary at 70cm.
150				70-105cm: Greenish white 5GY9/1.
				Sharp faint boundary at 105cm.
				105-150cm: As 17-70cm:
				Very firm to semi-indurated. Fractured by drilling.
				0-2cm: Void



Lithology and biostratigraphy of Core 30, Hole 62.1.



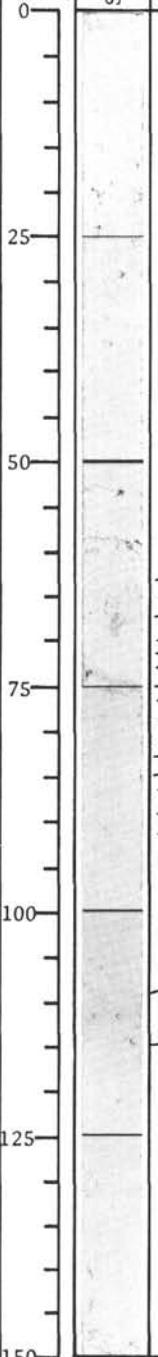
Physical properties of Core 30, Hole 62.1.

Hole 62.1 Core 30 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				NANNOFOSSIL CHALK OOZE
25				0-68cm: Pale bluish gray 5B8/1.
50				68-73cm: Greenish gray 5G5/1, thinly laminated.
75		↔ 1 Gradational ↔ 1 boundaries. ↔ 1		73-150cm: Greenish white 5GY8/1. Firm to semi-indur- ated, shattered by drilling. Indistinct fine horizontal lamin- ation, (~1mm).
100				
125				
150				

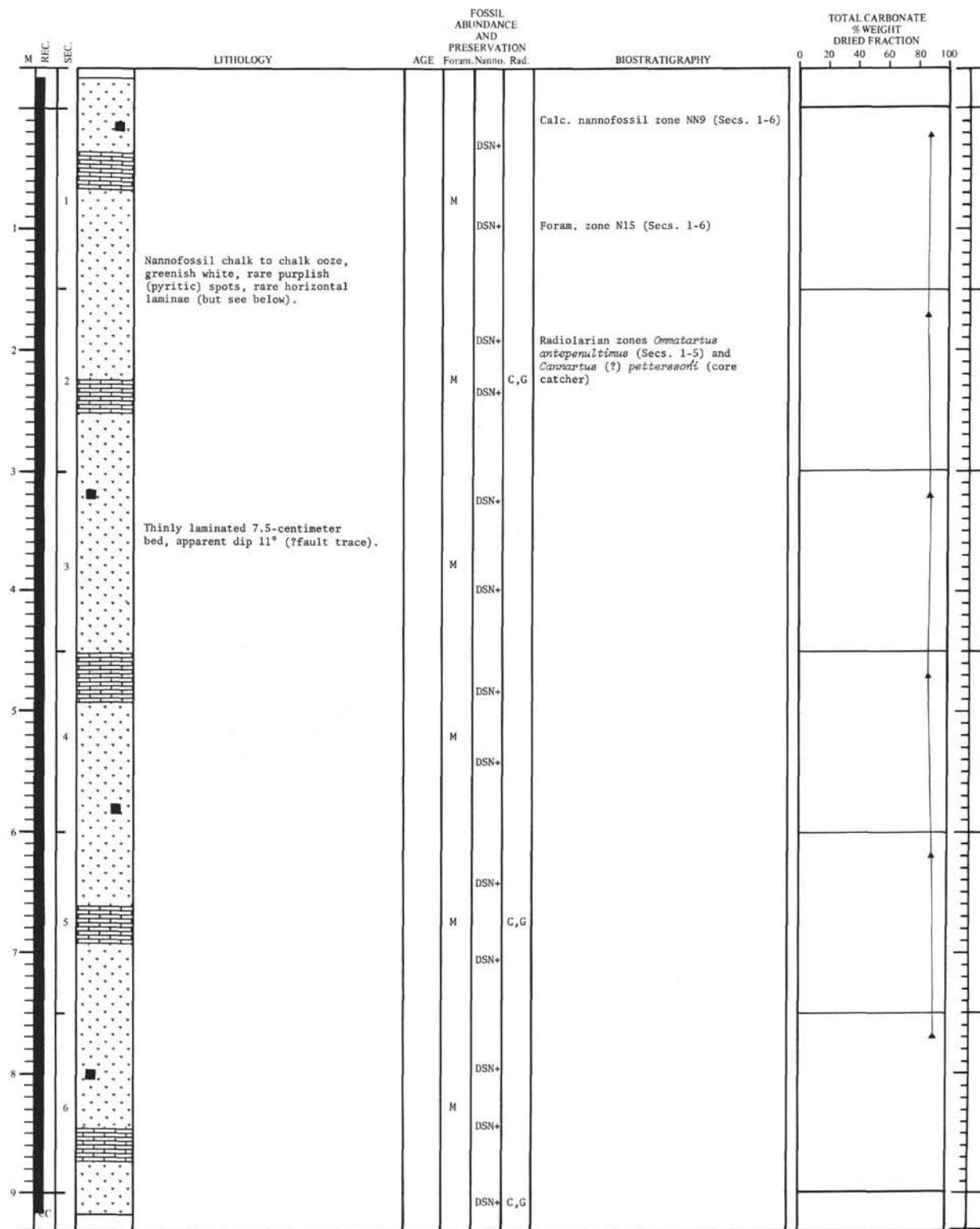
Hole 62.1 Core 30 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				NANNOFOSSIL CHALK OOZE
25				Pale bluish gray 5B 8.5/1 semi-consolidat- ed, very uniform.
50		()		No structures.
75		O O		Rare hard lumps.
100				
125				
150				

Hole 62.1 Core 30 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

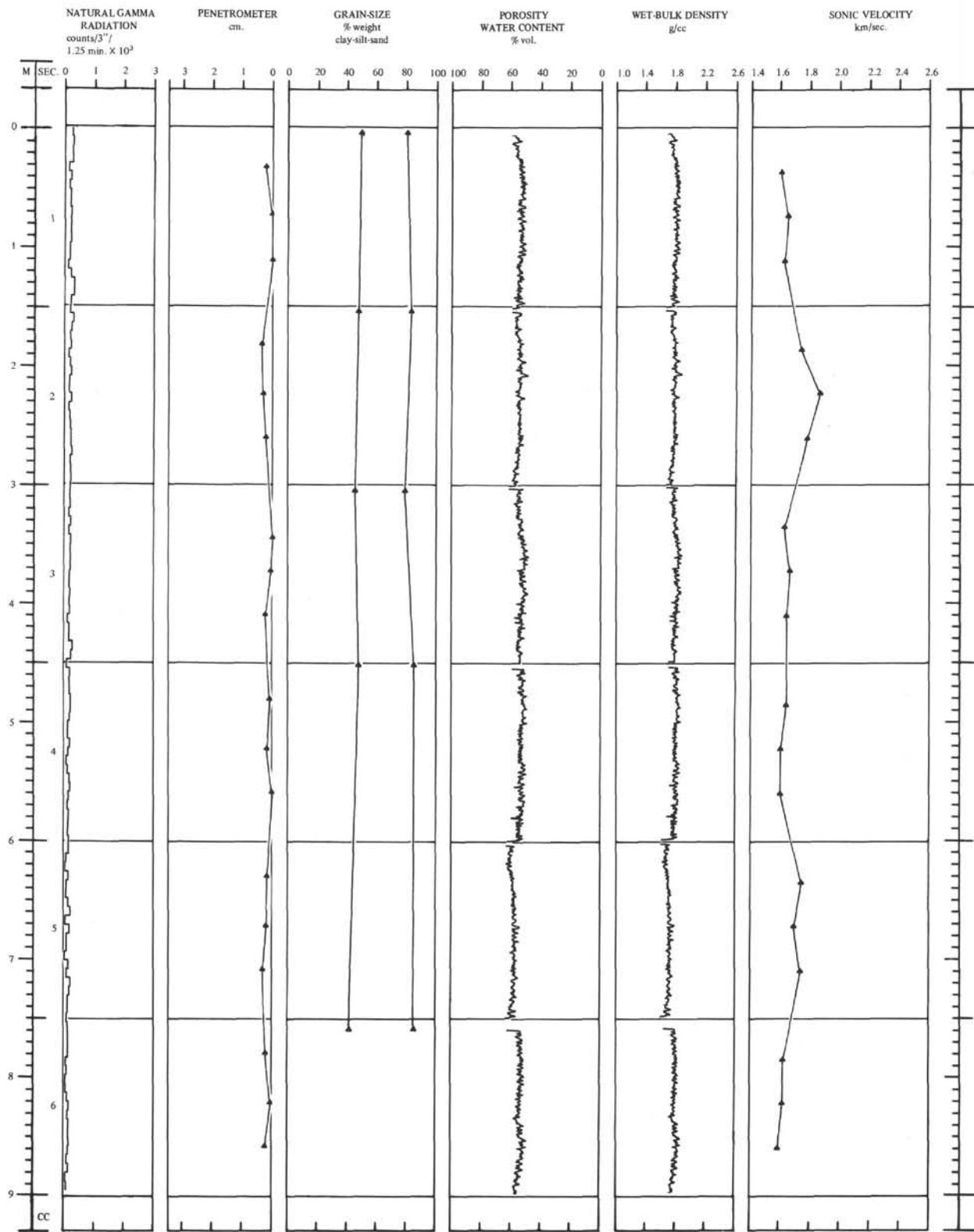
Hole 62.1 Core 30 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

Hole 62.1 Core 30			
Section 5			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			<u>NANNOFOSSIL CHALK to CHALK OOZE</u>
25			0-109cm: Pale bluish gray SB 8.5/1 semi-indurated with faint horizontal 1/2-lcm layers of pale purple 5P7/2, mainly between 62 and 92cm.
50			75-77cm: SG5/2 grayish green nannofossil ooze. More clayey than above.
75			109-115cm: Pale purple 5P7/2 ooze as above, appar- ently slightly more pyritic.
100			→ 1 Gradational → 1 boundaries.
125			115-150cm: Pale bluish gray SB8.5/1, texture as above.
150			Gradational horizontal boundary sharp hori- zontal boundary at 115cm.

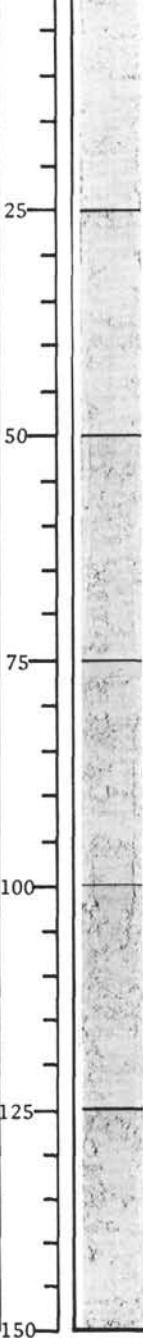
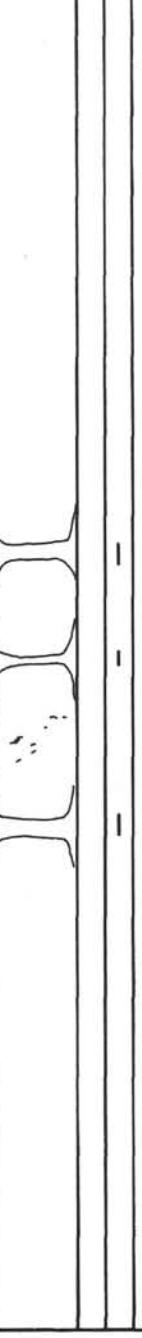
Hole 62.1 Core 30			
Section 6			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
			Smear Slides (*) Deformed Areas
0			<u>NANNOFOSSIL CHALK OOZE</u>
25			Pieces of firm to semi indurated greenish white (SGY8/1) calcar- eous ooze, broken and displaced but not badly deformed by coring, with softer mud be- tween pieces, the mud probably made out of the ooze during the drilling process.
50			Rare mottles of very dusky purple 5P2/2.
75			
100			
125			
150			



Lithology and biostratigraphy of Core 31, Hole 62.1.



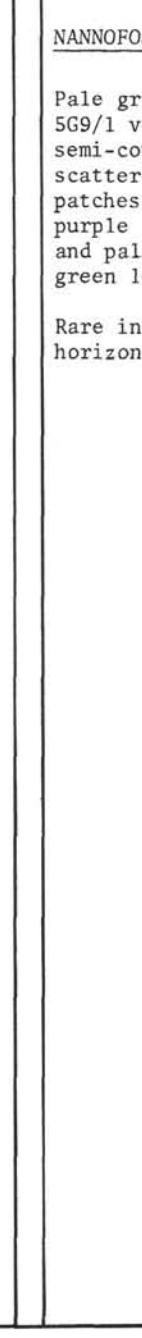
Physical properties of Core 31, Hole 62.1.

Hole 62.1 Core 31 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

Pieces of firm to semi indurated greenish white (5GY8/1) calcarous ooze, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.

Rare mottles of very dusky purple 5P2/2 at 82-86cm.

Hole 62.1 Core 31 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK OOZE

Pale greenish gray 5G9/1 very firm to semi-consolidated with scattered streaks and patches of very dusky purple 5P2/2 (pyritic) and pale yellowish green 10GY7/2.

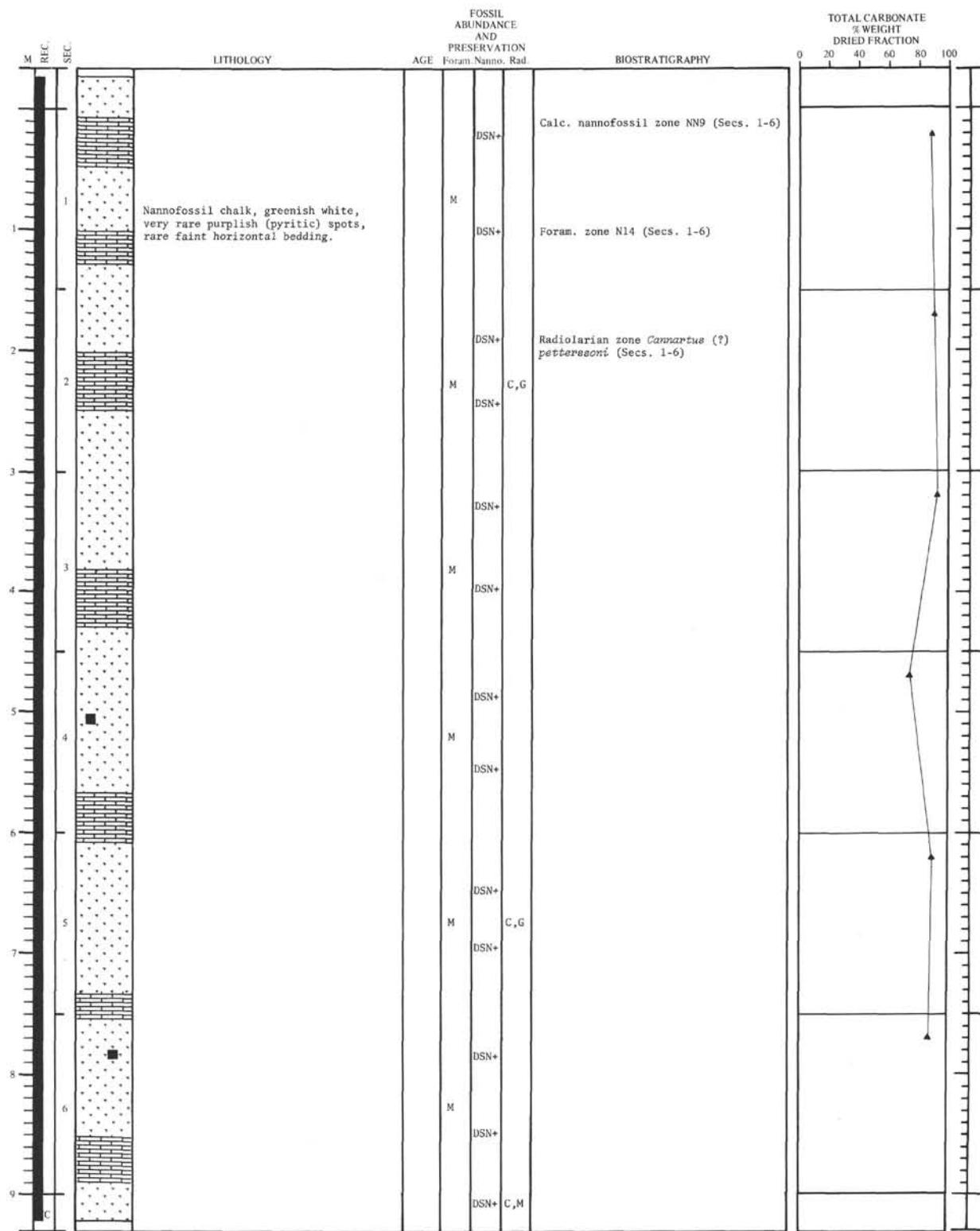
Rare indistinct horizontal bedding.

Hole 62.1 Core 31 Section 3					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK OOZE</u> and <u>NANNOFOSSIL CHALK</u>
25			*		
50			*		→ 1 7.5cm thick bed, apparent dip ~110, thinly laminated, coarse at top and ~5cm down. Where darkest, a pale green 10G6/2, but also as light as 8/2 or 8/1. Somewhat, harder than adjacent chalk (at base).
75					Pieces of firm to semi indurated greenish white (5GY8/1) calcar- eous ooze and chalk, broken and slightly displaced but not badly deformed by coring, a few mottles of very dusky purple 5P2/2 at ~ marks at left (e.g. 51cm, etc.).
100					
125					
150					

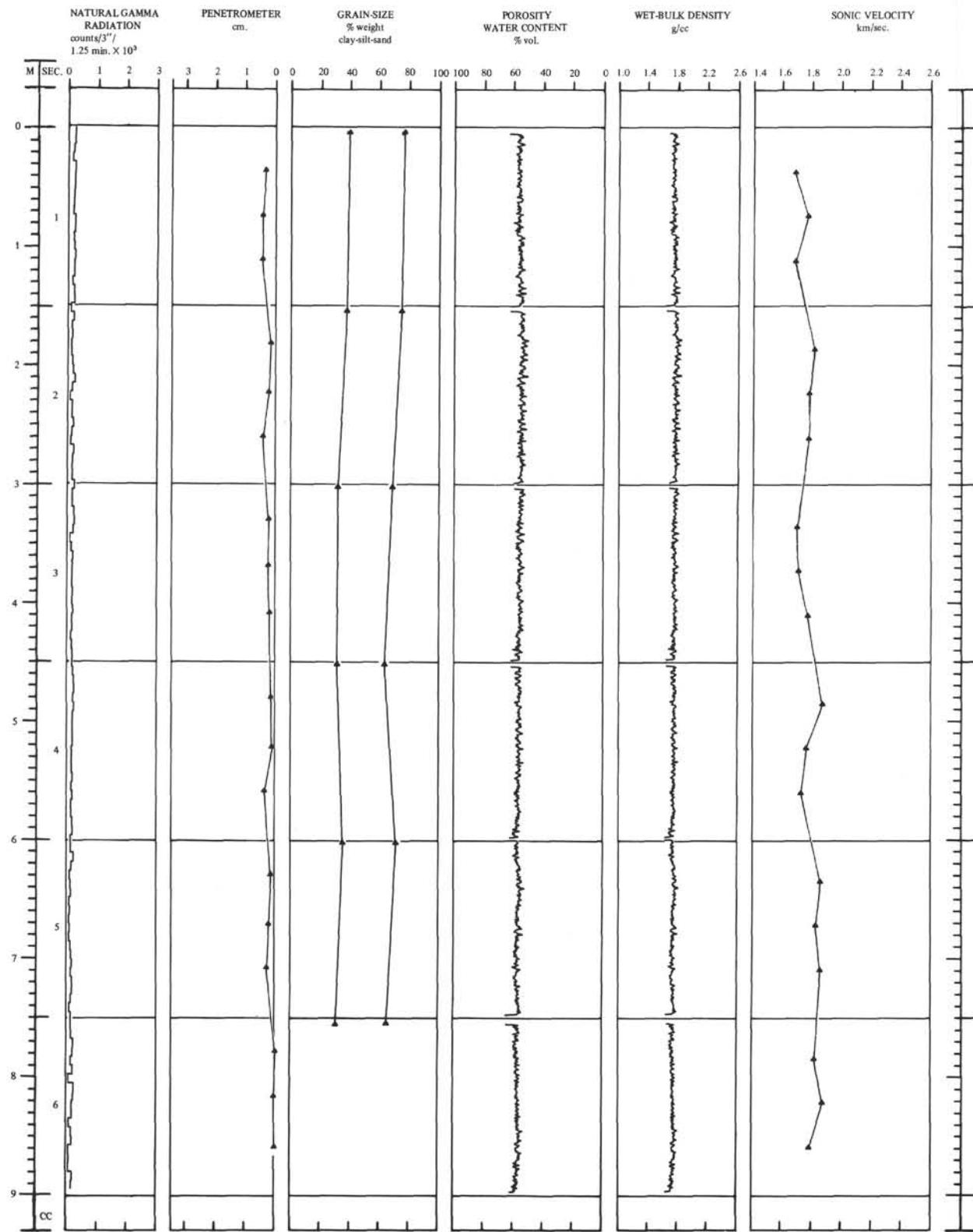
Hole 62.1 Core 31 Section 4					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK OOZE</u> to <u>NANNOFOSSIL CHALK</u>
25					
50					
75					
100					
125					
150					

Hole 62.1 Core 31 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0		/		<u>NANNOFOSSIL CHALK to CHALK Ooze</u>
25				0-133cm: Pale greenish gray SG9/1 very firm to semi-indurated with minor flecks of very dusky purple SP2/2 (pyritic). Sharp boundary at 133cm.
50				133-150cm: As above, but bluish white SB9/1.
75				
100				
125				
150				

Hole 62.1 Core 31 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0		/		<u>NANNOFOSSIL CHALK OOZE to NANNOFOSSIL CHALK</u>
25				Pieces of firm to semi indurated greenish white (5GY8/1) calcar- eous ooze, broken and displaced but not badly deformed by coring, with a few mottles of very dusky purple SP 2/2 e.g., 110cm.
50				
75				
100				
125				
150				



Lithology and biostratigraphy of Core 32, Hole 62.1.



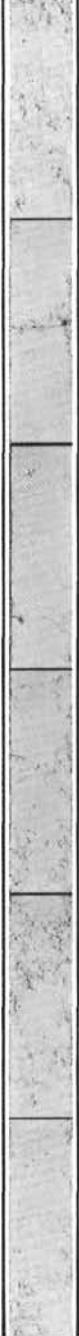
Physical properties of Core 32, Hole 62.1.

Hole 62.1 Core 32					
Section 1					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					
25					<u>NANNOFOSSIL CHALK</u> Apparently structureless. Pieces of semi-indurated greenish white (SGY8/1) chalk, broken and displaced but not badly deformed by coring.
50					
75					
100					
125					
150					

Hole 62.1 Core 32					
Section 2					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					
25					<u>NANNOFOSSIL CHALK or</u> <u>CHALK OOZE</u>
50					Very uniform very firm to semi-indurated pale greenish gray SG9/1.
75					Very faint horizontal bedding.
100					
125					
150					

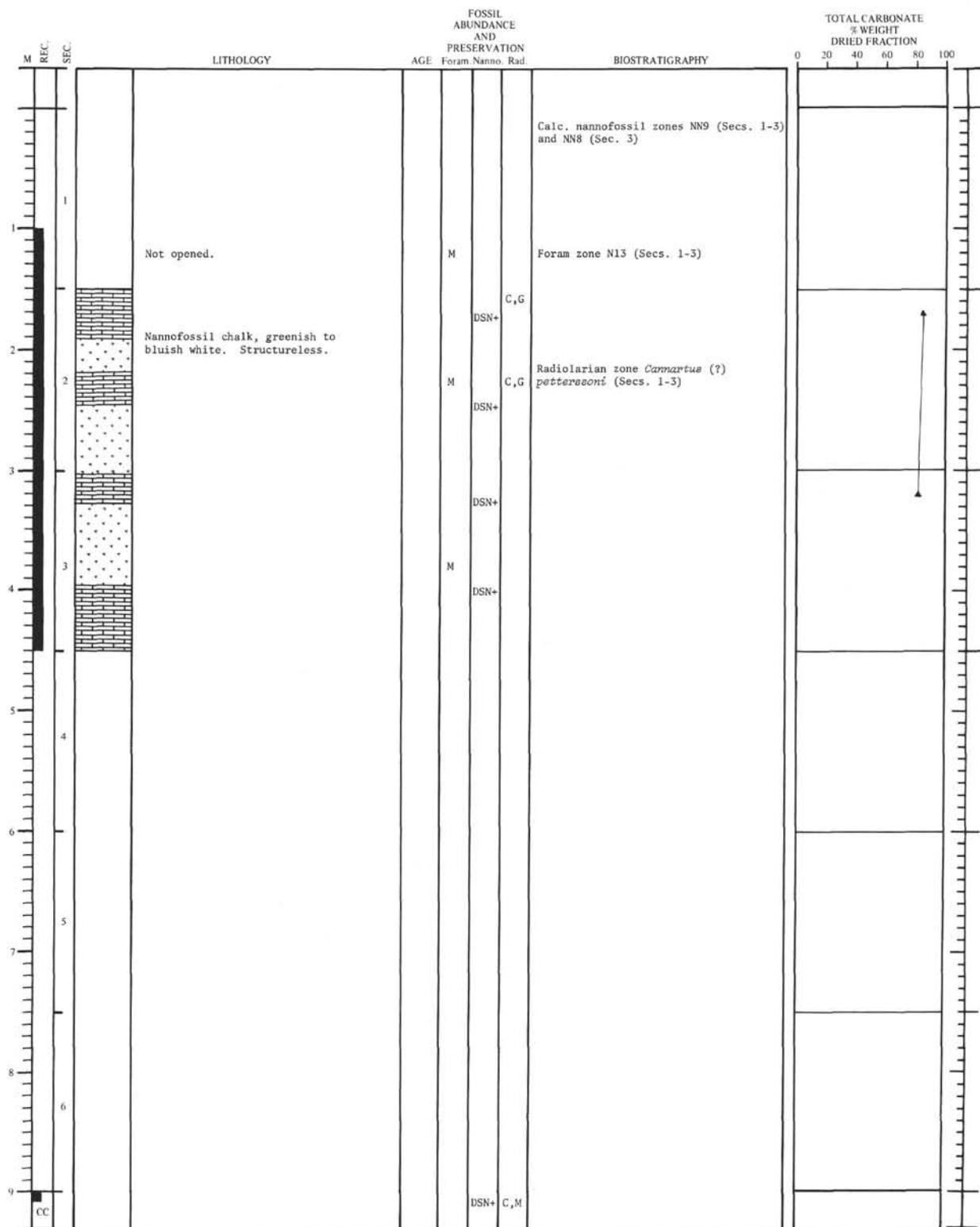
Hole 62.1 Core 32 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

Hole 62.1 Core 32 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

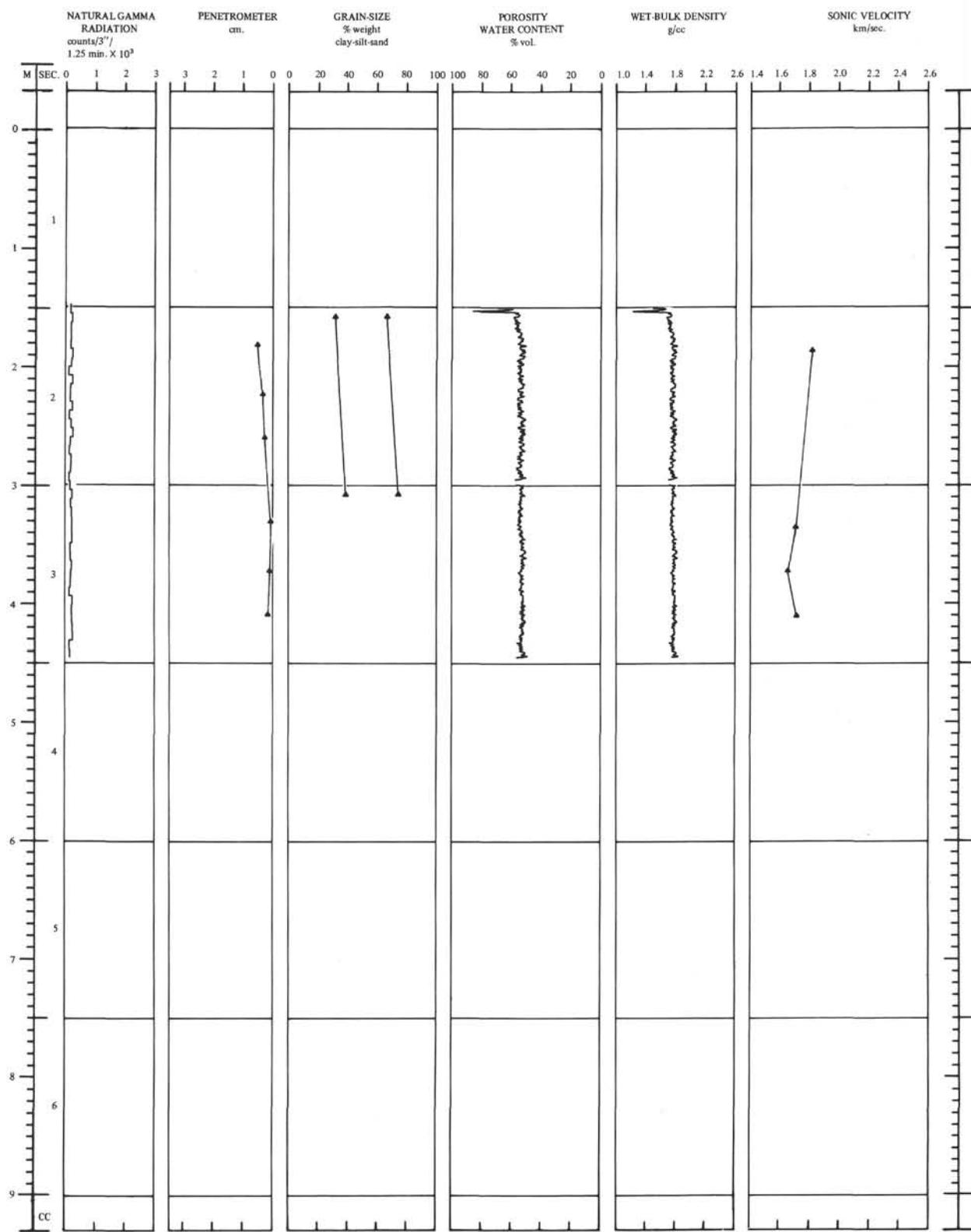
Hole 62.1 Core 32 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				<u>NANNOFOSSIL CHALK</u> Very uniform semi-indurated pale greenish gray 5G9/1. Locally indurated.
50				
75				
100				
125				
150				

Hole 62.1 Core 32 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				<u>NANNOFOSSIL CHALK</u> ← 1
50				Pieces of firm to semi-indurated greenish white (5GY8/1) chalk, broken and displaced but not badly deformed by coring, with some softer mud between pieces, the mud probably made out of the ooze during the drilling process.
75				← 1
100				← 1
125				← 1
150				← 1

(1) Rare mottles of very dusky purple SP2/2 e.g. at 7cm.



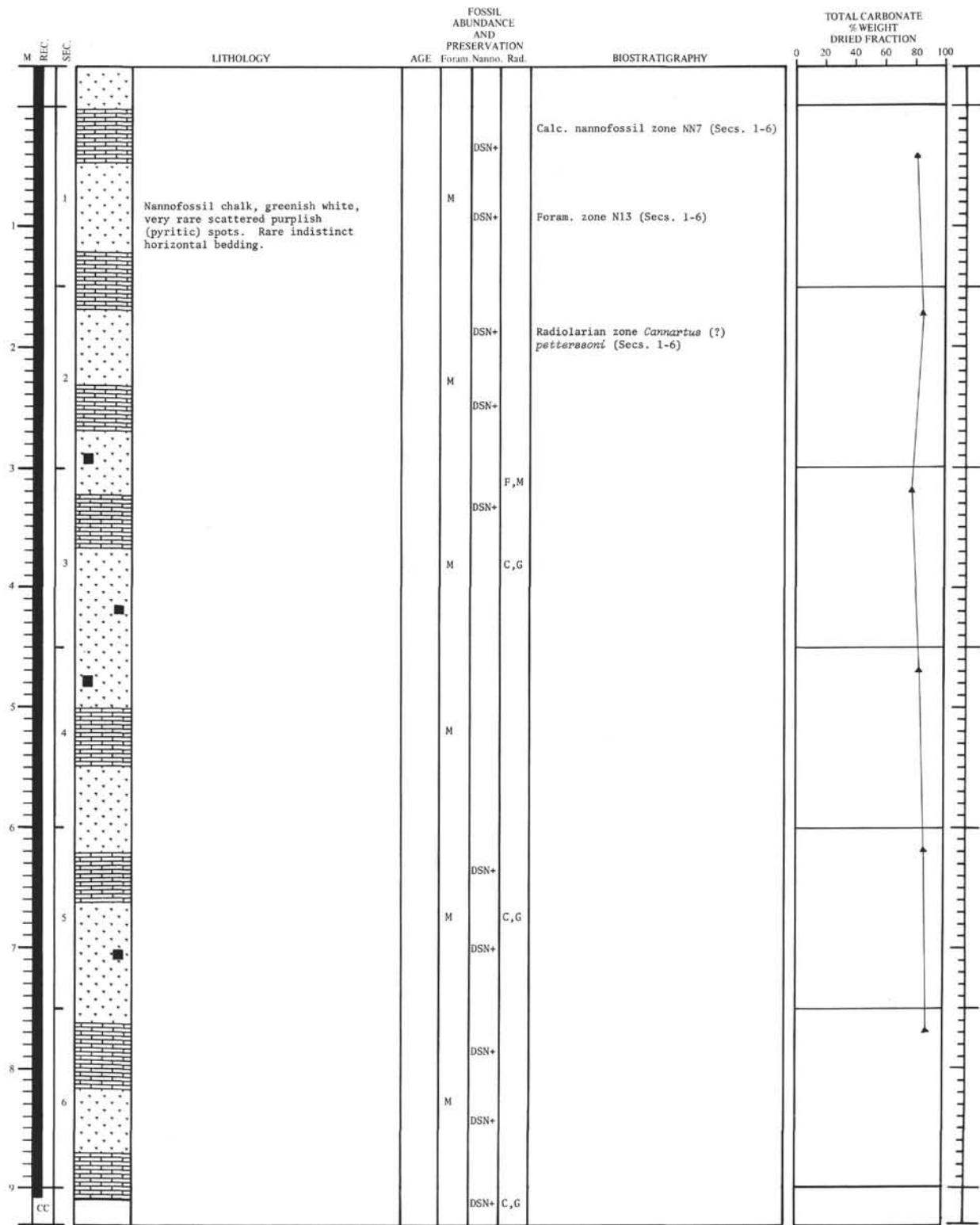
Lithology and biostratigraphy of Core 33, Hole 62.1.



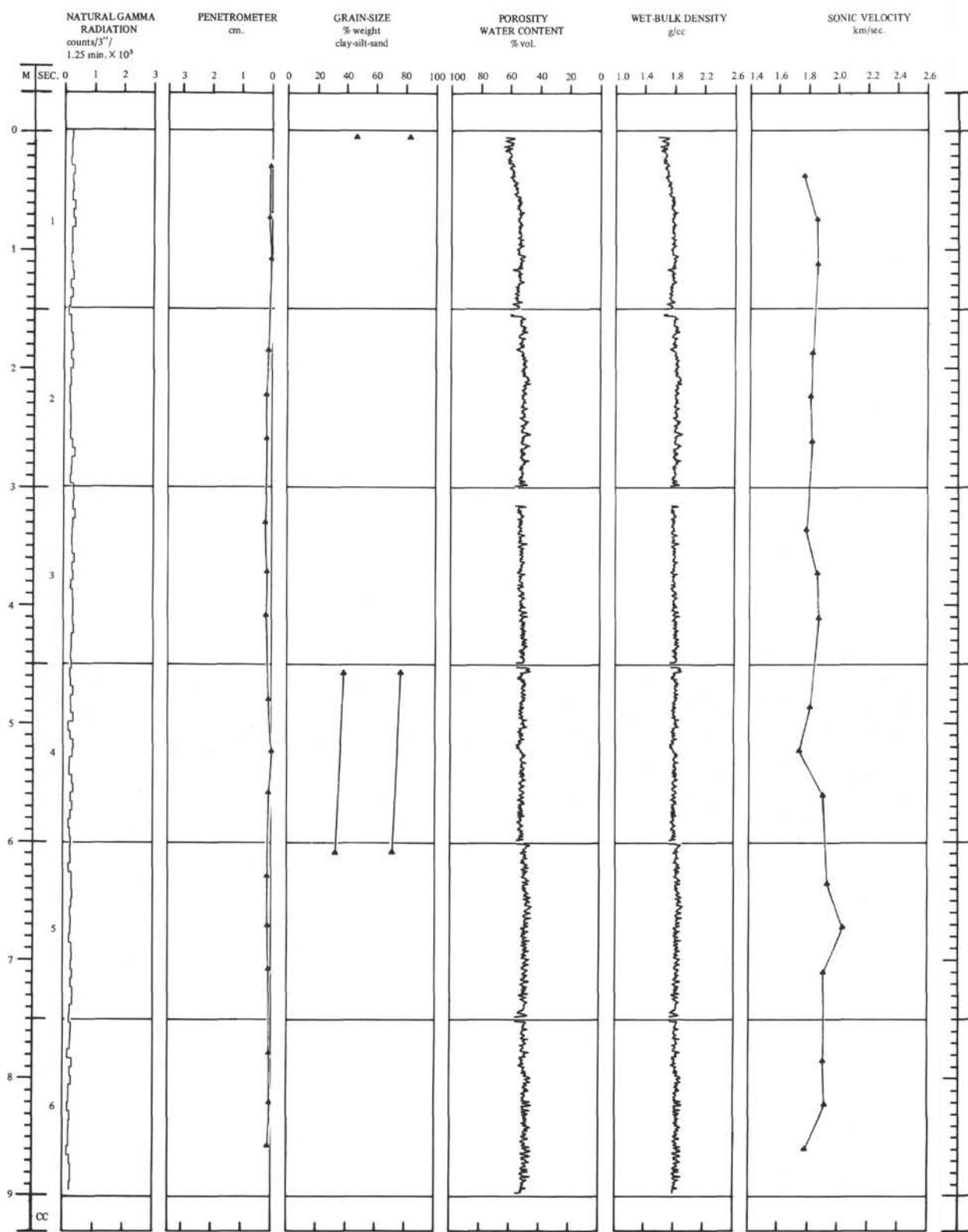
Physical properties of Core 33, Hole 62.1.

Hole 62.1 Core 33 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				<u>NANNOFOSSIL CHALK</u> Bluish white 5B9/1 chalk. No apparent color changes, mottling, bedding, or contacts.
25				
50				
75				
100				
125				
150				

Hole 62.1 Core 33 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				<u>NANNOFOSSIL CHALK</u>
25				Sections A are slightly darker (~5GY7.5/1) than Section B (5GY 8/1).
50				Pieces of firm to semi-indurated greenish white (5GY8/1) calcareous ooze, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.
75				(A) 0-47, 93-97cm. (B) 47-93, 97-150cm.
100				Very crumbly 113-150cm.
125				
150				



Lithology and biostratigraphy of Core 34, Hole 62.1.



Physical properties of Core 34, Hole 62.1.

Hole 62.1 Core 34 Section 1					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					NANNOFOSSIL CHALK
25					0-30cm: Badly fragmented (partly cavings?).
50					Pieces of semi-indurated greenish white (SGY8/1) chalk, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process. No structure seen.
75					
100					
125					
150					

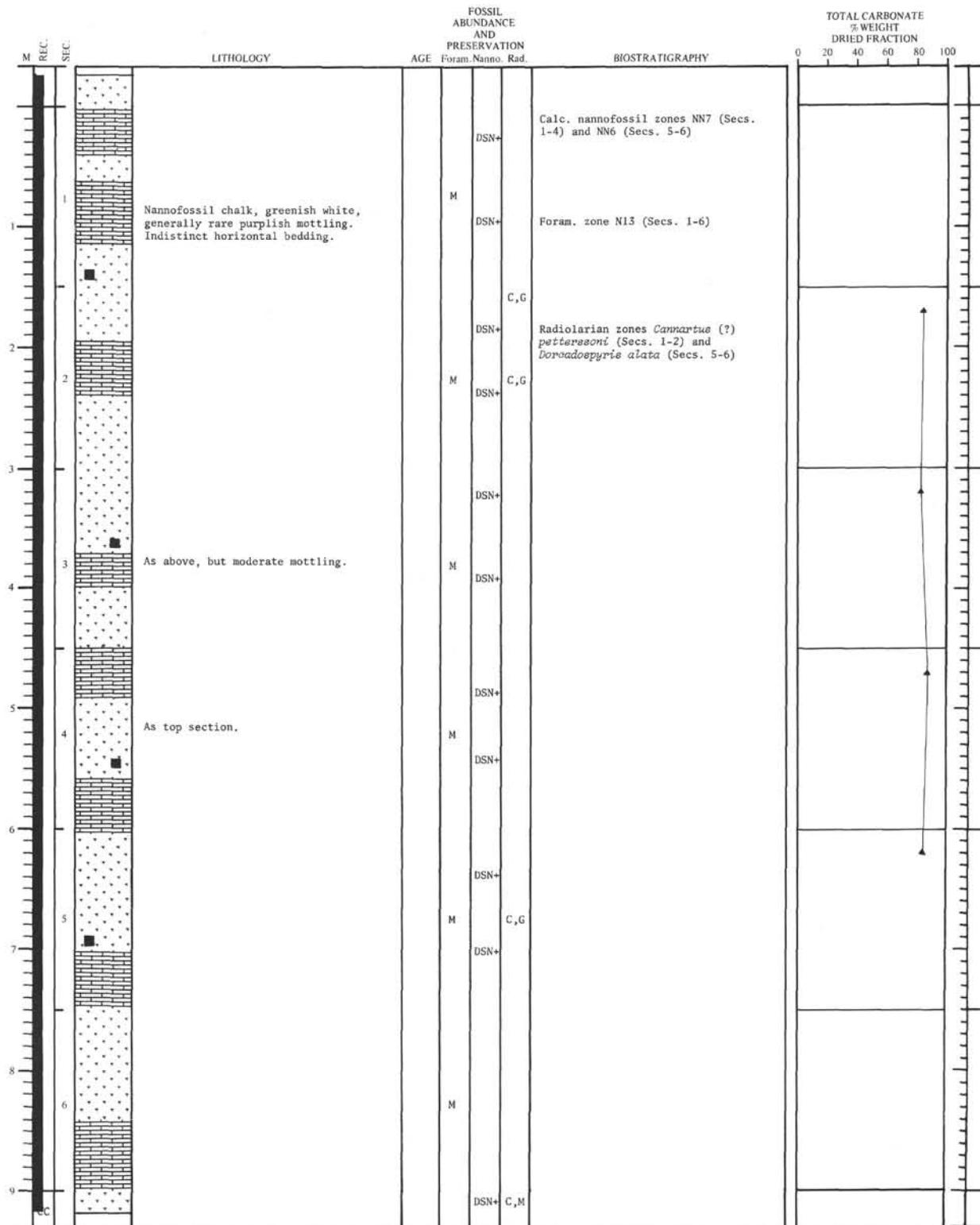
Hole 62.1 Core 34 Section 2					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					NANNOFOSSIL CHALK
25					Pieces of semi-indurated greenish white (SGY8/1) chalk, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.
50					Section is 151.5cm long.
75					
100					
125			- - -		1 Rare mottles of very dusky purple SP2/2.
150			- - -		1

Hole 62.1 Core 34 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0		-		
25		-		NANNOFOSSIL CHALK Bluish white (5B9/1) chalk. Except for a few (1) purplish black (5P2/1) specks and streaks (pyritic), no color zoning, mottling bedding, or contacts are apparent.
50		-		
75		-	-	
100		-	-	
125		-	-	
150		-	-	

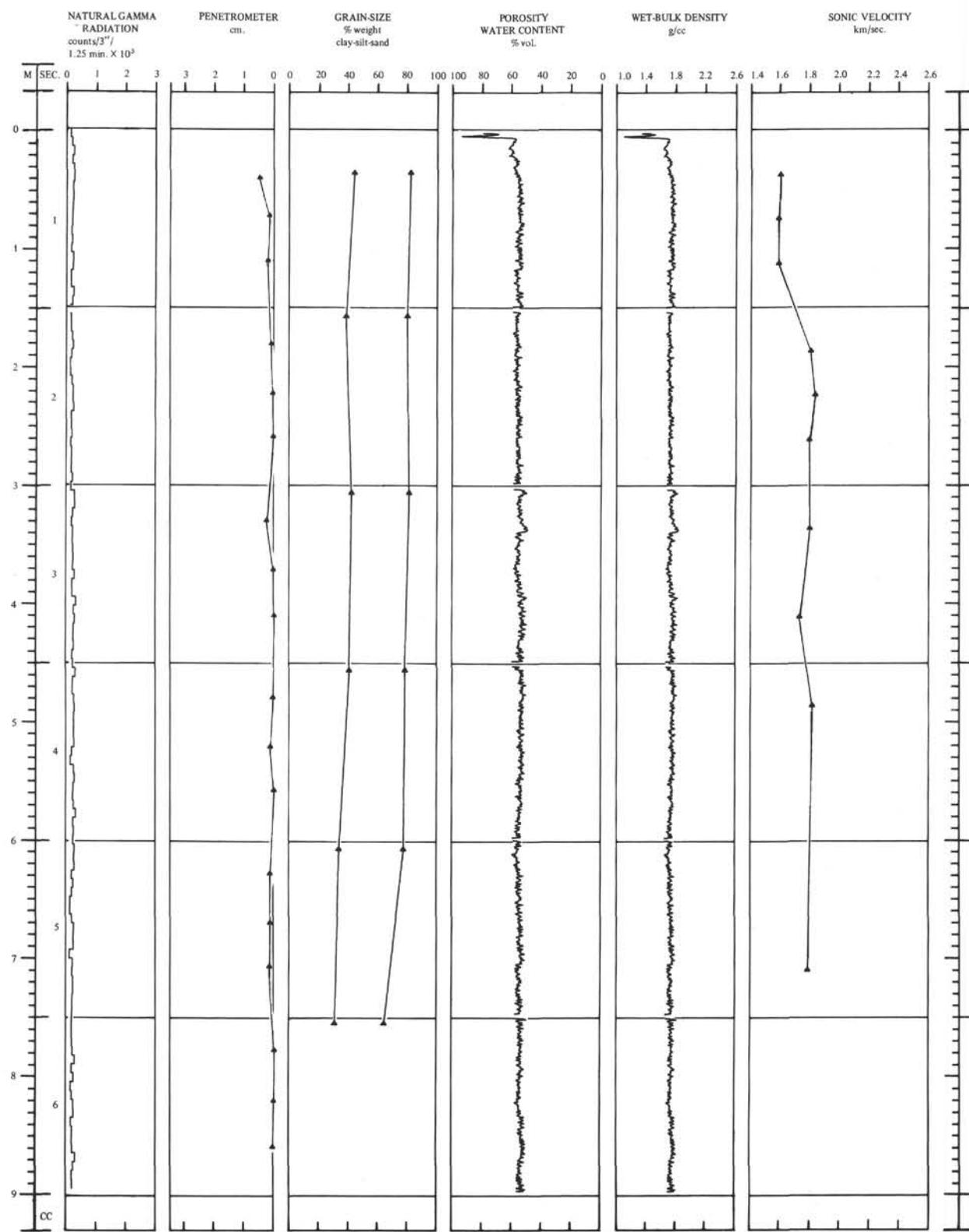
Hole 62.1 Core 34 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0		-		
25		-		
50		-		
75		-		
100		-		
125		-		
150		-		

Hole 62.1 Core 34 Section 5					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK</u>
25					Bluish white (5B9/1) chalk. A few streaks (1) (from sectioning) where specks of purplish black (5P2/1) pyritic areas have been smeared. Otherwise, no visible color zones, bedding, mottling, or contacts. (Core dry and crumbly).
50					Photograph of 50-75cm part is underexposed.
75					
100					
125					
150					

Hole 62.1 Core 34 Section 6					
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas	Description
0					<u>NANNOFOSSIL CHALK</u>
25					Pieces of firm to semi-indurated greenish white (5GY8/1) calcareous ooze, broken and displaced but not badly deformed by coring with minor softer mud between pieces, the mud probably made out of the ooze during the drilling process.
50					Rare mottles of very dusky purple 5P2/2.
75					Faint horizontal bedding.
100					
125					
150					



Lithology and biostratigraphy of Core 35, Hole 62.1.

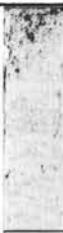


Physical properties of Core 35, Hole 62.1.

Hole 62.1 Core 35 Section 1				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				<u>NANNOFOSSIL CHALK</u>
25				Pieces of semi-indurated greenish white (5GY8/1) chalk, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.
50				A few small mottles of very dusky purple SP2/2.
75				Upper 60cm badly fragmented (including cavings?).
100				
125				
150				

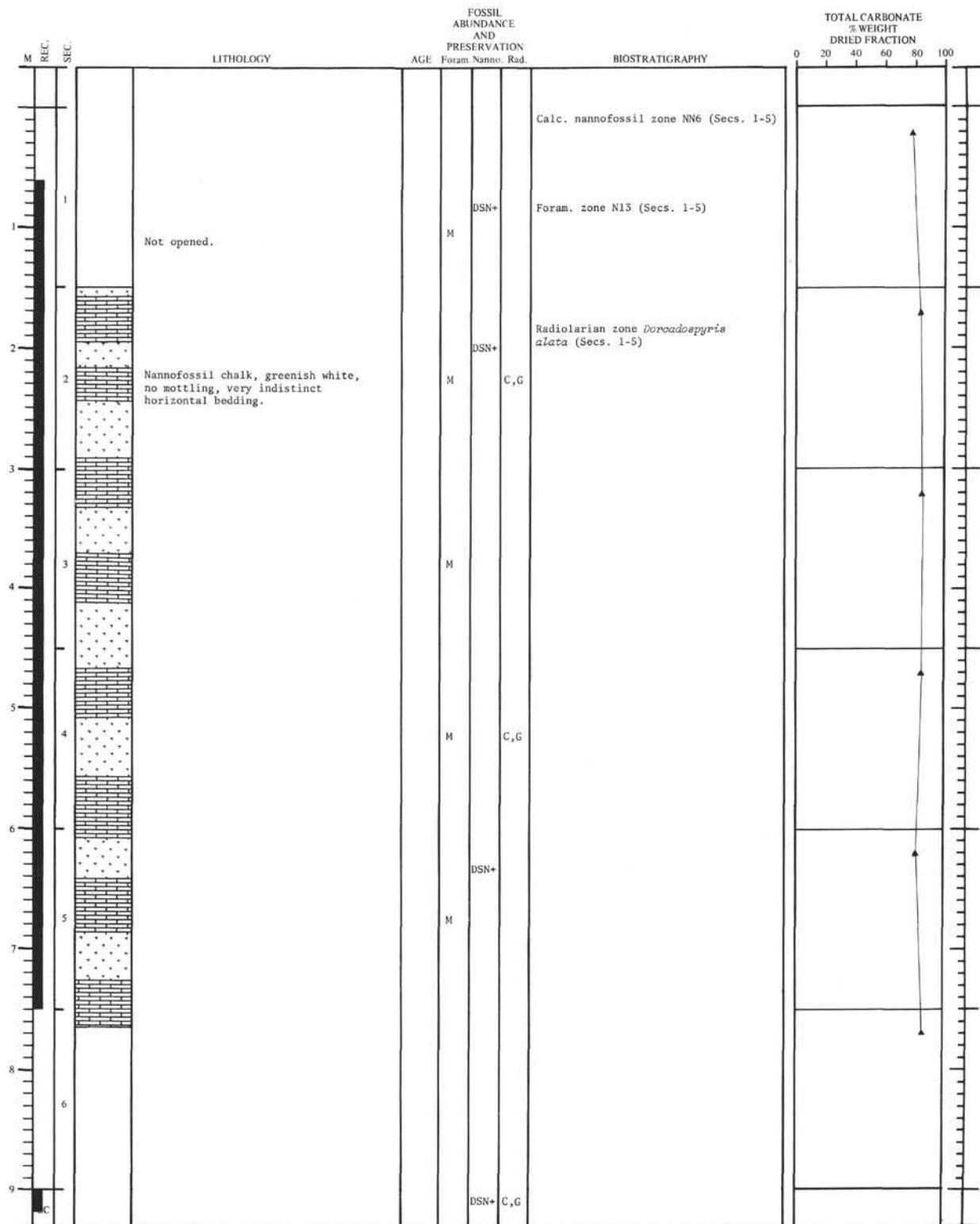
Hole 62.1 Core 35 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				<u>NANNOFOSSIL CHALK</u>
25				Greenish white (5G9/1) chalk. Rare (1) pyritic specks (e.g., 78cm) purplish black (5P2/1). Otherwise, no color zones, mottling, bedding, or contacts can be seen.
50				
75				
100				
125				
150				

Hole 62.1 Core 35 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				<u>NANNOFOSSIL CHALK</u>
25				Pieces of semi-indurated greenish white (5GY8/1) chalk, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.
50				Moderate mottles of very dusky purple SP2/2.
75				Gradational color change at ~30cm. Below core is slightly darker (light greenish gray 5GY7/1) and, in the areas of mottles, mixed with grayish purple 5PS/2.
100				
125				
150				

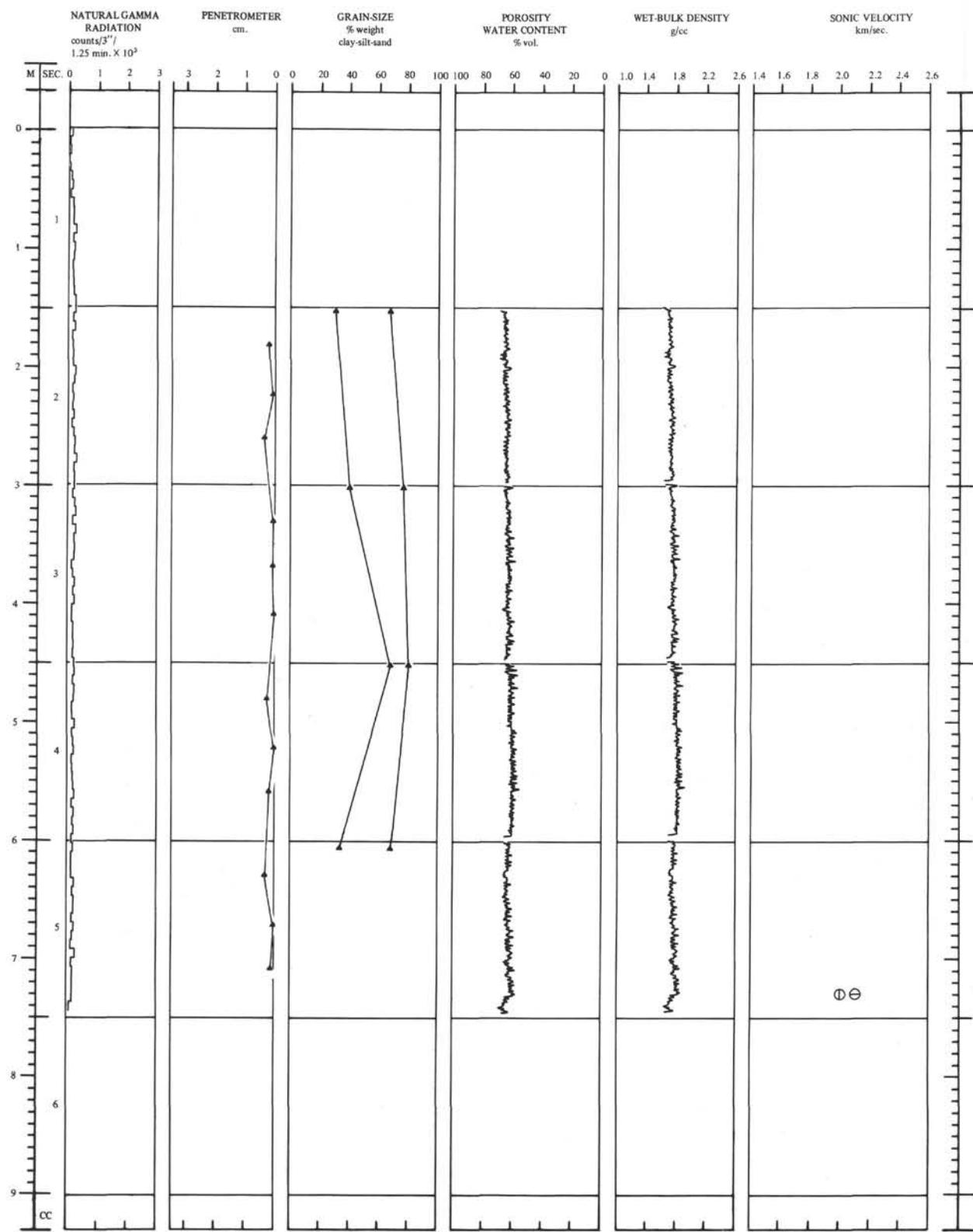
Hole 62.1 Core 35 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				<u>NANNOFOSSIL CHALK</u>
25				Pieces of semi-indurated greenish white (5GY8/1) chalk, broken and displaced but not badly deformed by coring, with softer mud between pieces, the mud probably made out of the ooze during the drilling process.
50				Very rare mottles (1) of very dusky purple SP2/2.
75				Some of the harder fragments show faint lamination, but generally they are too crumbly to clean the surfaces very well (in order to see structures).
100			1	
125				
150				

Hole 62.1 Core 35 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				<u>NANNOFOSSIL CHALK</u> Greenish white (5G9/1) chalk. A few specks and streaks (1) of purplish black (5P2/1) pyritic areas. Otherwise, no color zones, mottling, bedding, or contacts can be seen.
50				
75			← 1	
100				
125				
150				

Hole 62.1 Core 35 Section 6				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*) Deformed Areas	Description
0				
25				<u>NANNOFOSSIL CHALK</u> Pieces of firm to semi-indurated greenish white (5G8/1) calcareous ooze, broken and displaced but not badly deformed by coring, with minor softer mud between pieces, the mud probably made out of the ooze during the drilling process.
50				Very faint horizontal bedding.
75				
100				
125				
150				



Lithology and biostratigraphy of Core 36, Hole 62.1.



Physical properties of Core 36, Hole 62.1.

Hole 62.1 Core 36 Section 2				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25				<u>NANNOFOSSIL CHALK</u> Greenish white (5G9/1) chalk. Core is very crumbly. No color zones, mottling, bedding, or contacts.
50				
75				
100				
125				
150				

Hole 62.1 Core 36 Section 3				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Description
			Deformed Areas	
0				
25				
50				
75				
100				
125				
150				

Hole 62.1 Core 36 Section 4				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125				
150				

NANNOFOSSIL CHALK

(Core dry and crumbly; not scraped).

Greenish white (5G9/1) chalk. No color zones, mottling, bedding, or contacts seen.

(not even the usual purple spots).

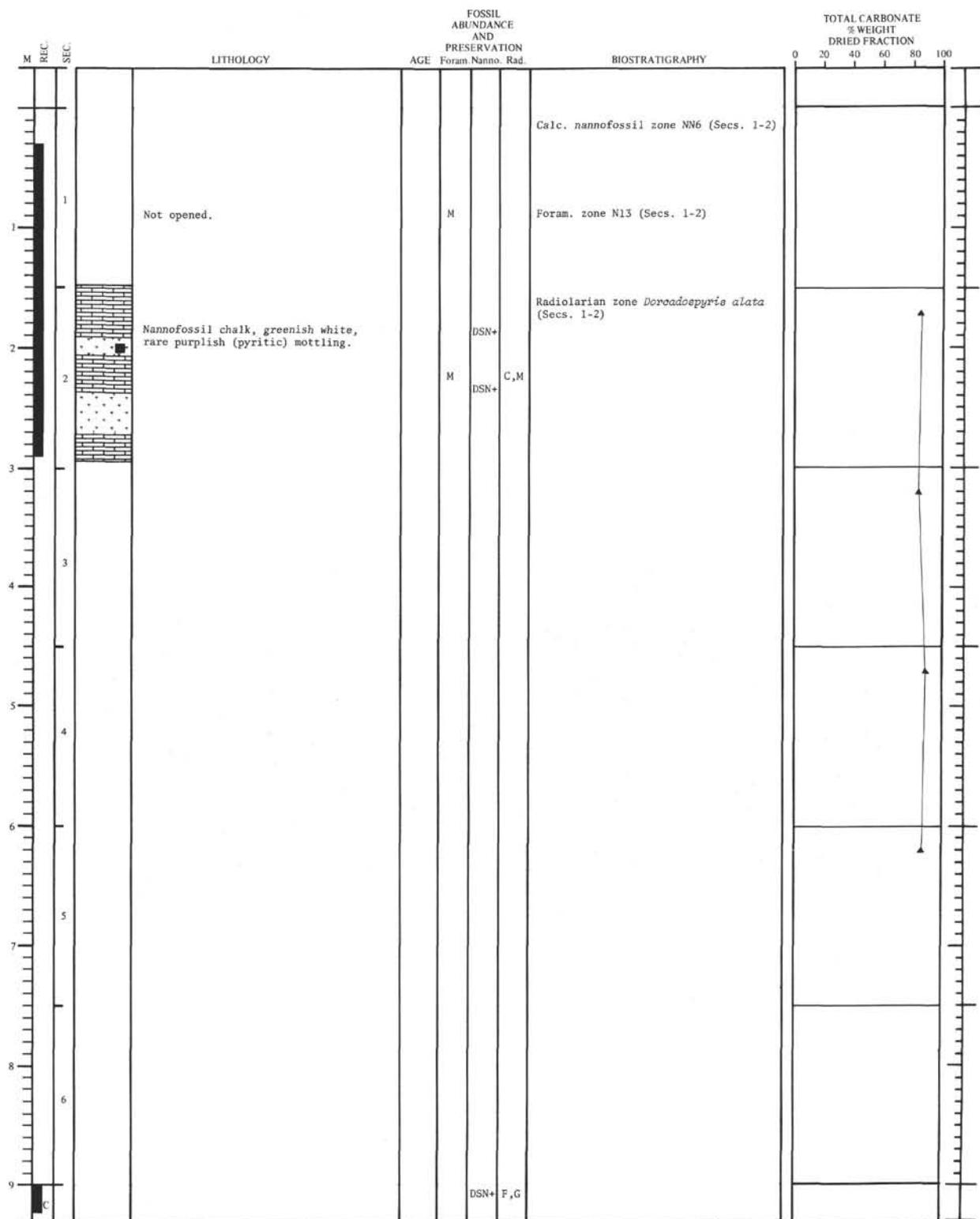


Hole 62.1 Core 36 Section 5				
Centimeters from Top of Section	Section Photograph	Graphic Representation	Smear Slides (*)	Deformed Areas
Description				
0				
25				
50				
75				
100				
125			H	H
150				

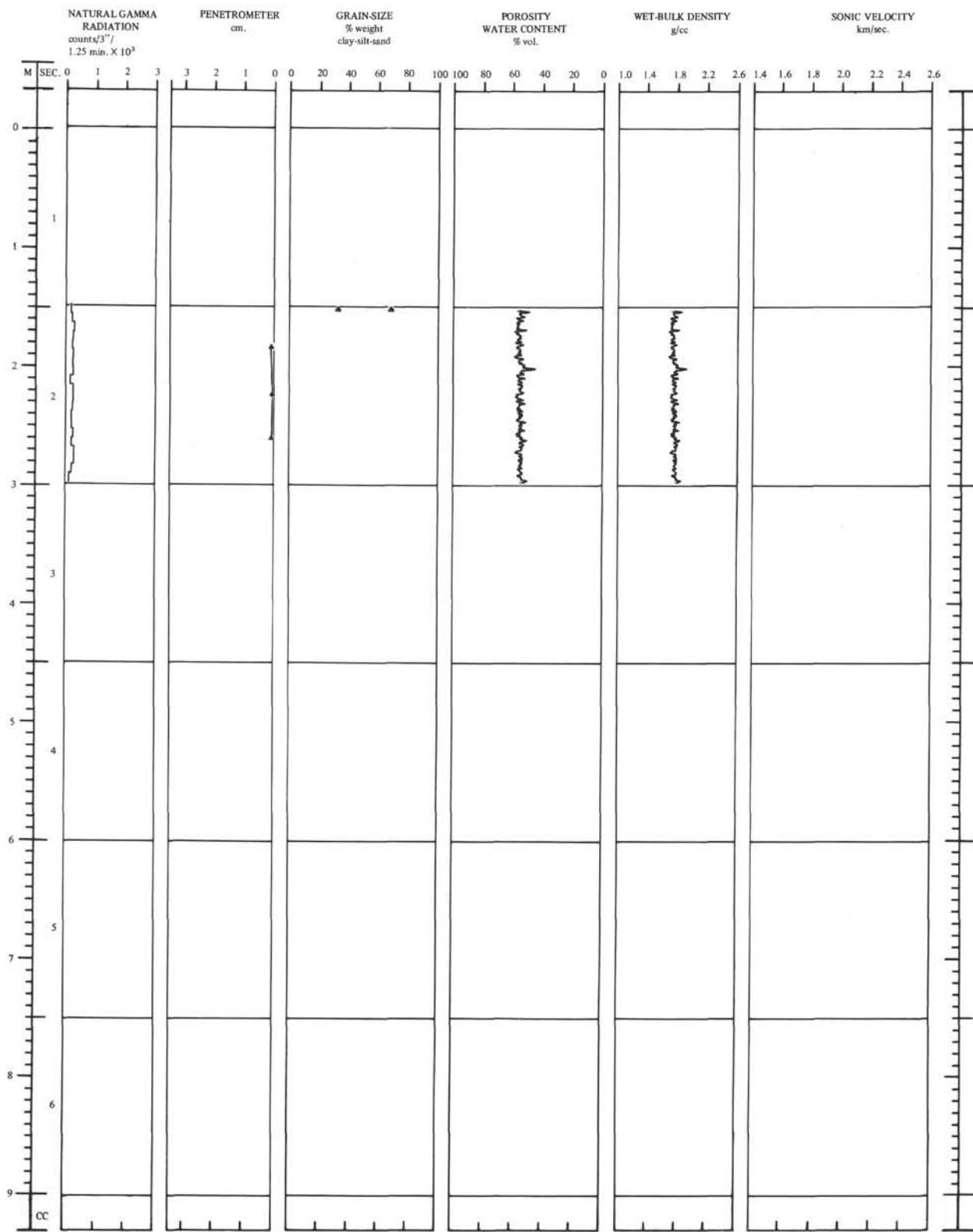
NANNOFOSSIL CHALK OOZE

Pieces of firm to semi indurated and rarely well indurated (H) greenish white (5G8/1) calcareous ooze, broken and displaced but not badly deformed by coring.



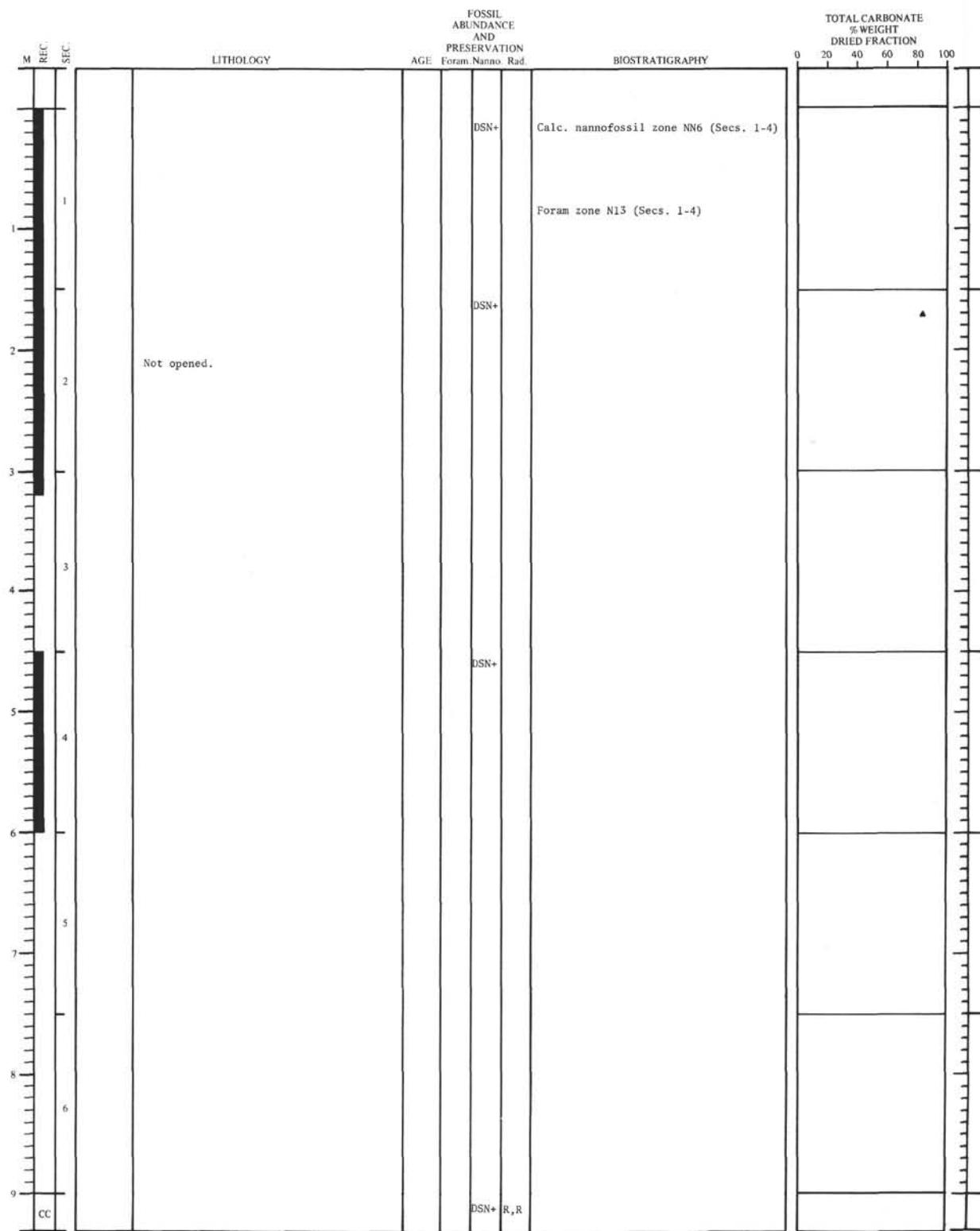


Lithology and biostratigraphy of Core 37, Hole 62.1.

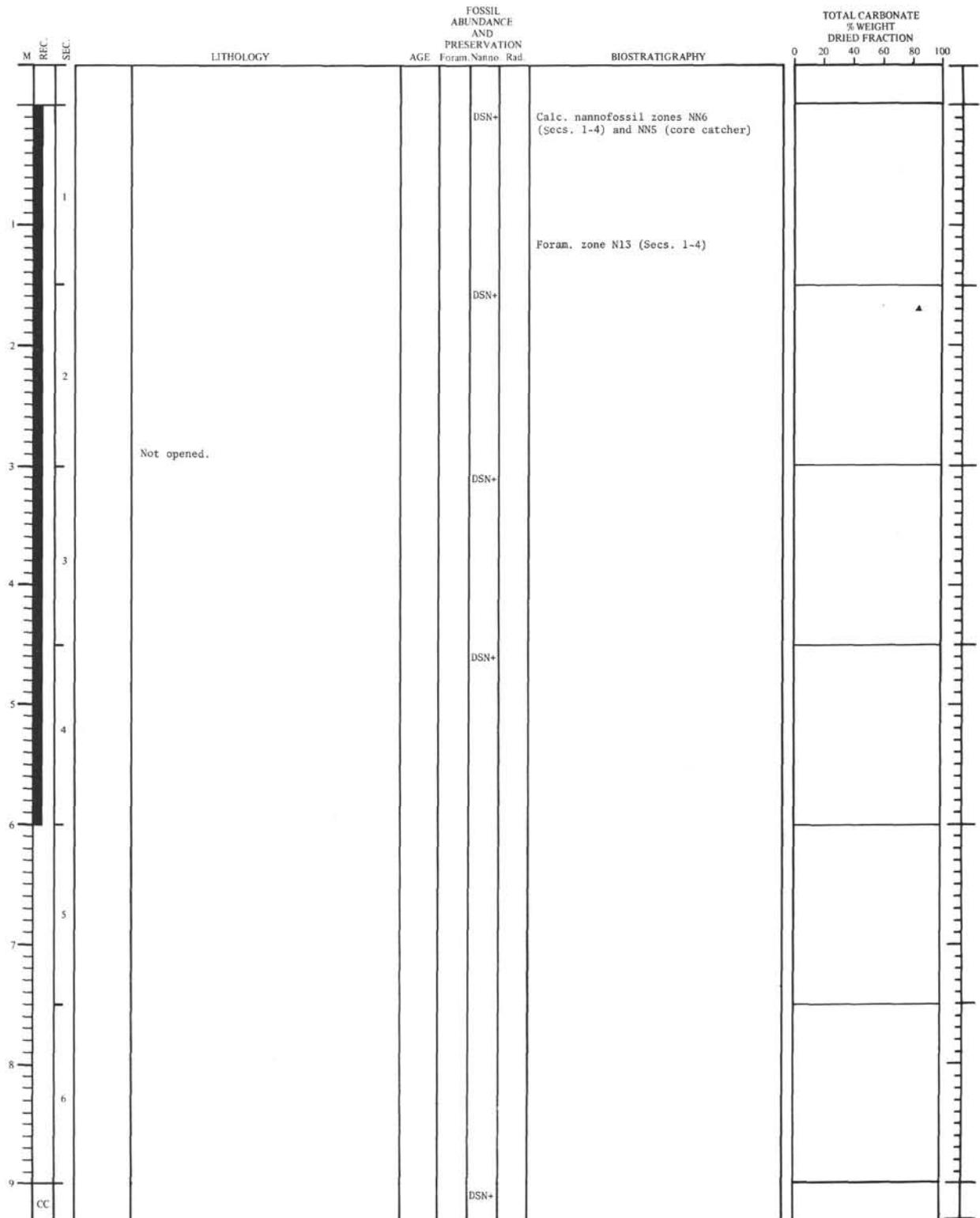


Physical properties of Core 37, Hole 62.1.

Hole 62.1 Core 37 Section 2			
Centimeters from Top of Section	Section Photograph	Graphic Representation	Description
0			<u>NANNOFOSSIL CHALK</u>
25		- - -	Greenish white (5G9/1) chalk; a few (1) specks of purplish black (5P2/1) pyritic areas, streaked and smeared when splitting the core.
50		— — —	(Core is dry and crumbly; didn't brush or scrape). → 1
75		—	No apparent bedding, mottling, or contacts.
100			
125		— —	
150			



Lithology and biostratigraphy of Core 38, Hole 62.1.



Lithology and biostratigraphy of Core 39, Hole 62.1.