

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|---------------|------------------------------|--------|---|
| 0-1 | | | | Mn | | | | | | | SILICEOUS CARBONATE OOZE WITH CLAY |
| 1-2 | | | | | | | | | | | 97-101 cm: unknown void |
| 2-3 | | | | | | D | | middle Eocene | SS | pal YE | pieces of siliceous sponge up to 1 cm in length. |
| 3-4 | | | | Mn | | | | | | | General Description: The core is mostly constituted of monotonous and structureless pale yellow (5Y 8/2) SILICEOUS CARBONATE OOZE WITH CLAY. Mn-oxide spots less than 1 cm across rarely occur throughout the core. |
| 4-5 | | | | | | | | | IW | | |
| 5-6 | | | | | | | | | XRD SS SS SS PAL | | dusky red (7.5R 3/4) ALTERED VOLCANIC GLASS occurs in Interval 11-12 cm as pieces with a nodular outline. |
| | | | | | | | | | | | yellow (5Y 7/6) VITRIC ASH WITH BIOTITE occurs in Interval 12-14cm. Sharp base towards underlying light gray ash layer. Top less sharp. |
| | | | | | | | | | | | light gray (5Y 7/1) VITRIC ASH WITH CARBONATE GRAINS AND SPONGE SPICULES occurs in Interval 14- 16 cm. Base is sharp with one burrow propagating 1 cm into the underlying ooze. |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTNOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|-----|---------|--------|---|
| 1 | | | | | | | | | | | <p>SILICEOUS NANNOFOSSIL OOZE WITH FORAMS</p> <p>pale yellow (5Y 8/2) Homogeneous lithology throughout core</p> <p>Black spots throughout core, in Section 2 limonitic speck (27-28 cm)</p> |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | SS | | |
| 5 | | | | | | | | | IW | | |
| 6 | | | | | | | | | | pal YE | |
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| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|---------------|---------|--------|---|
| 0 | 1 | | | | | | | | SS | | NANNOFOSSIL OOZE WITH CLAY Section 1, 0-32 cm, moderate drilling disturbance pale yellow (5Y 8/2) |
| 2 | 2 | | | | | | | | | | Section 1, 129-130 cm, single Mn nodule |
| 4 | 3 | | | | | | | | | | scattered black flecks throughout core |
| 6 | 4 | | | | | | | middle Eocene | IW | pal YE | |
| 8 | 5 | | | | | | | | | | |
| 10 | 6 | | | | | | | | | | |
| | 7 | | | | | | | | | | |
| | | | | | | | | | PAL | | |

SITE 1050 HOLE A CORE 4H

CORED 29.1-38.6 mbsf

1050A-4H

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|---------------|---------|--------|--|
| 0 | | | | Mh | | | | | | | NANNOFOSSIL OOZE WITH CLAY several larger (0.5-1 cm) Mn-oxide blebs |
| 1 | | | | | | | | | SS | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | IW | pal YE | undetermined mollusc fragment of 1 cm diameter |
| 5 | | | | Py | | | | middle Eocene | | | |
| 6 | | | | Py | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | PAL | | |

General description: Entire core consists of monotonous and structureless pale yellow (6Y 8/2) NANNOFOSSIL OOZE WITH CLAY. A few pyrite blebs smaller than 1 mm are scattered throughout the core. Oblique and subhorizontal layering in Section 2, 110-120 cm and Section 3, 110-140 cm are artifacts introduced by the core splitting process.

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|----------------------------------|----------|-------|--|
| | | | | | | | | middle Eocene IW SS PAL | lt gy GN | | <p>— NANNOFOSSIL OOZE WITH CLAY AND SPICULES</p> <p>Grayish green (10G 8/1) Pyrite scattered throughout core. Slightly bioturbated in Sections 5-7.</p> <p>Note: all of CC to Paleo lab</p> |

SITE 1050 HOLE A CORE 6H

CORED 48.1-57.6 mbsf

1050A-6H

| METERS CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|----------------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|----------|--|
| 0 | | | | | | | | | | |
| 1 | | | Py | | | | | | | NANNOFOSSIL OOZE WITH RADIOLARIANS AND SPICULES Light Greenish Gray (5GY 8/1) Minor components: sponge spicules, foraminifers and diatoms Pyrite micronodules scattered through core. |
| 2 | | | Py | | | | | | | |
| 3 | | | Py | | | | | SS | | |
| 4 | | | Py | | | | | IW | | |
| 5 | | | Py | | | | | SS | lt gn GY | |
| 6 | | | Py | | | | | | | |
| 7 | | | Py | | | | | | | |
| 8 | | | Py | | | | | PAL | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHIHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|-----|---------|-------|---------|
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| 10 | | | | | | | | | | | |

SILICEOUS NANNOFOSSIL OOZE
 (diatoms, radiolarians, sponge spicules)
 Light greenish gray (5G 8/1)
 burrow mottled with Zoophycos, Planolites and
 Chondrites
 Pyrite (micronodules) throughout

middle Eocene

IW

lt gn GY

PAL

| METERS CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|----------------------------|-----------|---------------------|-------------|-------------|---------|------------------|---------------|---------|-------|---|
| 0 | | | Mh | | | | | | | SILICEOUS NANNOFOSSIL CHALK WITH CARBONATE GRAINS burrow mottled throughout with Zoophycos, Planolites, and Chondrites Pyrite micronodules in upper part rare glauconite |
| 1 | | | Mh | | | | | | | |
| 2 | | | Mh | | | | | | | |
| 3 | | | Mh | | | | | SS | | SM: Section 3, 18 cm QUARTZ NANNOFOSSIL CHALK with SILICEOUS MICROFOSSILS |
| 4 | | | | | | | middle Eocene | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | SS | | SM: Section 6, 87 cm SPICULE NANNOFOSSIL CHALK |
| 7 | | | | | | | | SS | | SM: Section 7, 50 cm |
| 8 | | | | | | | | PAL | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|----------------------|------------|--------------|---|
| | | | | | | | | <p>middle Eocene</p> | <p>PAL</p> | <p>gy GN</p> | <p>SILICEOUS NANNOFOSSIL CHALK WITH CLAY grayish green (5G 8/1); biscuitied throughout. Biscuits are 5-10 cm long with drilling slurry between.</p> <p>— thin ash lamina</p> |

SITE 1050 HOLE A CORE 12X

CORED 105.2-114.8 mbsf

1050A-12X

1050A-13X

| | | | | | | | | | | | |
|--|-------------|------------------|---------------------|-------------|-------------|---------|------------------|---------------|---------|----------|--|
| | METERS | CORE AND SECTION | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
| | 0 1 2 | | | | | | | middle Eocene | SS | lt gy GN | CARBONATE CHALK WITH NANNOFOSSILS AND SPONGE SPICULES light grayish green (10GY 8/1) biscuiting throughout core; biscuits 5-10 cm with drilling slurry between. |

SITE 1050 HOLE A CORE 13X

CORED 114.80-124.40 mbsf

| | | | | | | | | | | | |
|--|---------------------------------|------------------|---------------------|-------------|-------------|---------|------------------|---------------|----------|----------|---|
| | METERS | CORE AND SECTION | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
| | 0 1 2 3 4 5 6 | | | | | | | middle Eocene | SS IW | lt gy GN | CARBONATE NANNOFOSSIL CHALK WITH SPICULES AND FORAMINIFERS and CARBONATE NANNOFOSSIL CHALK WITH SPONGE SPICULES light grayish green (10GY 8/1) Biscuits throughout core, mostly 5-10 cm log; many biscuits fractured. |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|-----------|-------|---|
| 0.0 | 1 | | | | | | | | | | <p>NANNOFOSSIL CHALK pale grayish green (10GY 8/1) bioturbation throughout core, biscuiting by drilling, 5-10 cm long; many biscuits are entirely fractured, with biscuitsAll reside in a drilling-induced glurry.</p> <p>NANNOFOSSIL CHALK WITH ASH, Section 4, 137-140 cm</p> |
| 0.2 | 2 | | | | | | | SS | | | |
| 0.4 | 3 | | | | | | | | pal gy GN | | |
| 0.6 | 4 | | | | | | | | | | |
| 0.8 | 5 | | | | | | | SS | | | |
| 1.0 | 6 | | | | | | | PAL | | | |

SITE 1050 HOLE A CORE 15X

CORED 134.0-143.6 mbsf

1050A-15X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|----------------------|---------------------------------------|-------|---|
| | | | | | | | | <p>middle Eocene</p> | <p>SS</p> <p>pal gy GN</p> <p>PAL</p> | | <p>CARBONATE NANNOFOSSIL CHALK WITH SPICULES Pale grayish green (10GY 8/1) Entire core is highly biscuited.</p> <p>127-150 cm: drilling disturbed CHERT layer</p> <p>thin layer of pinkish echinoderm fragments</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHNOFOSSELS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|--------------|---------|------------------|---------------|---------|-------|---|
| 0 | 1 | | | | | | | | | | <p>NANNOFOSSIL CHALK WITH SPICULES Light grayish green NANNOFOSSIL CHALK WITH SPICULES grades downcore into NANNOFOSSIL CHALK WITH CLAY and NANNOFOSSIL CHALK WITH CLAY AND CARBONATE GRAINS, becoming richer in clay and poorer in nannofossil preservation. Light grayish green (10GY 8/1) as dominant lithology Biscuits throughout core, bigger biscuits than in Core 15X (to 20 cm) Bioturbation throughout core, Section 1 highly bioturbated from 110 to 145 cm.</p> |
| 2 | 2 | | | | | | | SS | | | |
| 3 | 3 | | | | | | | | | | |
| 4 | 4 | | | | | | | | | | |
| 5 | 5 | | | | | | | | | | |
| 6 | 6 | | | | | | | | | | |
| 7 | 7 | | | | | | | | | | |
| | | | | | | | | early Eocene | | | <p>At Section 5 (144 cm) and Section 4 (30 cm) very thin Mn oxide layer</p> |
| | | | | | | | | middle Eocene | | | <p>Section 4 highly bioturbated and Mn oxide enriched</p> |
| | | | | | | | | | | | <p>LIMESTONE interval with CHERT on top (burrowing and chert infilling) (21-29 cm)</p> |
| | | | | | | | | | | | <p>42-43 cm interval: thin (< 0.3 cm) greenish layer (5G 5/3) with altered volcanic glass that grades into a brownish gray (5YR 7/2) layer (42-48 cm) with a hardground on top</p> |
| | | | | | | | | | | | <p>LIMESTONE interval with chert nodules (17-27 cm CC)</p> |

SITE 1050 HOLE A CORE 17X

CORED 153.2-162.8 mbsf

1050A-17X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|---------|--------------------|---|
| 17.0 | 1 | | | ▲ | | | | | SS | vpl BR lt ol GY | CLAYEY CALCARBONATE CHALK WITH FORAMINIFERS and SPONGE SPICULE CARBONATE CHALK WITH RADIOLARIANS |
| 17.0 | 2 | | | ▲ | | | | | SS | | General Description: The upper part of the core (Section 1, 0-74 cm) consists of an alternation of differently silicified very pale brown (10YR 6/2) to light olive gray (10Y 6/2) CLAYEY CARBONATE CHALK WITH FORAMINIFERS. Strong silicification occurs in Section 1, 8-28 cm and a light olive gray (10Y 6/2) CHERT layer occurs in Section 1, 72-74 cm. Below Section 1, 74 cm, the core consists of monotonous, strongly bioturbated light greenish gray (10GY 8/1) SPONGE SPICULE CARBONATE CHALK WITH RADIOLARIANS. The entire core is moderately disturbed with drilling biscuits throughout. |
| 17.0 | 3 | | | | | | | early Eocene | | lt gn GY | |
| 17.0 | 4 | | | | | | | | PAL | | |

SITE 1050 HOLE A CORE 18X

CORED 162.8-172.4 mbsf

1050A-18X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|----------|-----------|--|
| 0.1 | | | | Py | | | | early Eocene | SS SS | pal gy GN | NANNOFOSSIL CHALK Pale grayish green (10GY 8/1), bioturbated throughout core; alternated darker and lighter. 68 cm Dark grayish green ASH layer, slightly bioturbated |
| 0.6 | | | | | | | | | | | |

SITE 1050 HOEL A CORE 19X

CORED 172.4-182.0 mbsf

1050A-19X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|----------------|----------|--|
| 1 | | | | | | | | | SS | | Major lithology: SILICEOUS NANNOFOSSIL CHALK to NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS throughout core except as noted; light greenish gray (5G 8/1 to 5G 8/1) with subtle color variations, burrow mottled. |
| 2 | | | | | | | | | SS SS SS | | Minor lithology: VITRIC ASH- Section 1, 39 cm; 1 cm thick, brownish, disrupted by bioturbation. NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS- Section 2, 89-94 cm; three thin (~0.3 cm) layers, slightly coarser than dominant lithology but otherwise similar. |
| 3 | | | | | | | | | | | 39 cm- 1 cm thick bioturbated brownish ash layer |
| 4 | | | | | | D | | | IW XRD | lt gy GN | scattered Pyrite flecks 95-150 cm Pyrite flecks rare throughout section |
| 5 | | | | | | | | early Eocene | | | |
| 6 | | | | | | | | | | | 135-150 cm color different shade of light greenish gray (5G 8/1) Pyrite flecks rare throughout section |
| 7 | | | | | | | | | | | 120-130 cm color different shade of light greenish gray (5G 8/1) |
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| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|---------|----------|--|
| | | | | | | | | early Eocene | PAL | lt gy GN | <p>Major Lithology: SILICEOUS NANNOFOSSIL CHALK entire core; light greenish gray (8GY 8/1 to 8G 8/1); burrow mottled throughout; scattered pyrite flecks throughout; drilling biscuits of ~5-10 cm in drilling slurry throughout core.</p> <p>slight color variation (greener) 13-16 cm</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|---|--------------------------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|-----------------------------|-------|---|
| 0 1 2 3 4 5 6 7 8 | 1 2 3 4 5 6 7 8 | | | | | | | early Eocene | SS SS SS SS PAL | | <p>Major lithology: SILICEOUS NANNOFOSSIL CHALK to NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS AND MICRITE throughout core except as noted; rhythmic alternation of lighter and darker shades of light greenish gray (5GY 8/1 to 5G 7/1) variably expressed; burrow mottled throughout.</p> <p>Minor Lithology: SILICEOUS NANNOFOSSIL CHALK with vitric ash- Section 1, 59 cm; 0.5 cm thick, brown/black; bioturbated.</p> <p>100 to 103 cm- laminae 103 to 138 cm- scattered black flecks, not concentrated in burrows</p> <p>discrete burrows more obvious in darker intervals but density of mottles approximately constant throughout</p> <p>in Section 2, ~3.5 alternations of light/dark with boundaries at 10 cm (relatively sharp), 23 cm (gradational), 50 cm (gradational), 66 cm (relatively sharp, 90 cm (gradational), 125 cm (very gradational).</p> <p>very subtle color variations in upper 2/3 of section, 3 vague darker intervals at 109-115 cm, 124-130cm, and 135-140cm in bottom 1/3 of section</p> <p>color intermediate with very subtle variation through section, slightly darker in upper 15 cm</p> <p>Pyrite concentrated in 2 burrows</p> <p>color intermediate with very subtle variation through section</p> <p>75 to 100 cm- Pyrite concentrated in burrows</p> <p>Pyrite concentrated in two burrows</p> <p>Pyrite concentrated in burrow</p> <p>color variation subtle, slightly darker 0-18cm, 92-98cm, and 137-140cm</p> <p>scattered Pyrite rare (not concentrated in burrows) to base of core</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|-------|--|
| 0 | 1 | | | | | | | | | | <p>Major lithologies: SILICEOUS CHALK WITH NANNOFOSSIL Section 1, 0 cm - Section 5, 30 cm; pale grayish green (10GY 6/2) to pale green (5G 7/2) rhythmic alternations (middle of darker intervals indicated below); burrow mottling most evident in darker intervals but burrowed throughout; identifiable traces are Chondrites and Planolites. NANNOFOSSIL RADIOLARITE/SPICULITE- Section 5, 30 cm to base of core; pale green (10G 6/2); common pyrite from Section 6 to base of core.</p> <p>drilling biscuits (3-10 cm thick) throughout entire core</p> <p>darker interval</p> <p>darker interval</p> <p>darker interval</p> <p>darker interval</p> <p>darker interval</p> <p>darker interval</p> <p>darker interval</p> <p>darker interval</p> <p>darker interval</p> <p>common pyrite to base of core</p> |
| 2 | 2 | | | | | | | | | | |
| 3 | 3 | | | | | | | | | | |
| 4 | 4 | | | | | | | | | | |
| 5 | 5 | | | | | | | | | | |
| 6 | 6 | | | | | | | | | | |
| 7 | 7 | | | | | | | | | | |
| 8 | 8 | | | | | | | | | | |
| 9 | 9 | | | | | | | | | | |
| 10 | 10 | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | |
| 12 | 12 | | | | | | | | | | |
| 13 | 13 | | | | | | | | | | |
| 14 | 14 | | | | | | | | | | |
| 15 | 15 | | | | | | | | | | |
| 16 | 16 | | | | | | | | | | |
| 17 | 17 | | | | | | | | | | |
| 18 | 18 | | | | | | | | | | |
| 19 | 19 | | | | | | | | | | |
| 20 | 20 | | | | | | | | | | |
| 21 | 21 | | | | | | | | | | |
| 22 | 22 | | | | | | | | | | |
| 23 | 23 | | | | | | | | | | |
| 24 | 24 | | | | | | | | | | |
| 25 | 25 | | | | | | | | | | |
| 26 | 26 | | | | | | | | | | |
| 27 | 27 | | | | | | | | | | |
| 28 | 28 | | | | | | | | | | |
| 29 | 29 | | | | | | | | | | |
| 30 | 30 | | | | | | | | | | |
| 31 | 31 | | | | | | | | | | |
| 32 | 32 | | | | | | | | | | |
| 33 | 33 | | | | | | | | | | |
| 34 | 34 | | | | | | | | | | |
| 35 | 35 | | | | | | | | | | |
| 36 | 36 | | | | | | | | | | |
| 37 | 37 | | | | | | | | | | |
| 38 | 38 | | | | | | | | | | |
| 39 | 39 | | | | | | | | | | |
| 40 | 40 | | | | | | | | | | |
| 41 | 41 | | | | | | | | | | |
| 42 | 42 | | | | | | | | | | |
| 43 | 43 | | | | | | | | | | |
| 44 | 44 | | | | | | | | | | |
| 45 | 45 | | | | | | | | | | |
| 46 | 46 | | | | | | | | | | |
| 47 | 47 | | | | | | | | | | |
| 48 | 48 | | | | | | | | | | |
| 49 | 49 | | | | | | | | | | |
| 50 | 50 | | | | | | | | | | |
| 51 | 51 | | | | | | | | | | |
| 52 | 52 | | | | | | | | | | |
| 53 | 53 | | | | | | | | | | |
| 54 | 54 | | | | | | | | | | |
| 55 | 55 | | | | | | | | | | |
| 56 | 56 | | | | | | | | | | |
| 57 | 57 | | | | | | | | | | |
| 58 | 58 | | | | | | | | | | |
| 59 | 59 | | | | | | | | | | |
| 60 | 60 | | | | | | | | | | |
| 61 | 61 | | | | | | | | | | |
| 62 | 62 | | | | | | | | | | |
| 63 | 63 | | | | | | | | | | |
| 64 | 64 | | | | | | | | | | |
| 65 | 65 | | | | | | | | | | |
| 66 | 66 | | | | | | | | | | |
| 67 | 67 | | | | | | | | | | |
| 68 | 68 | | | | | | | | | | |
| 69 | 69 | | | | | | | | | | |
| 70 | 70 | | | | | | | | | | |
| 71 | 71 | | | | | | | | | | |
| 72 | 72 | | | | | | | | | | |
| 73 | 73 | | | | | | | | | | |
| 74 | 74 | | | | | | | | | | |
| 75 | 75 | | | | | | | | | | |
| 76 | 76 | | | | | | | | | | |
| 77 | 77 | | | | | | | | | | |
| 78 | 78 | | | | | | | | | | |
| 79 | 79 | | | | | | | | | | |
| 80 | 80 | | | | | | | | | | |
| 81 | 81 | | | | | | | | | | |
| 82 | 82 | | | | | | | | | | |
| 83 | 83 | | | | | | | | | | |
| 84 | 84 | | | | | | | | | | |
| 85 | 85 | | | | | | | | | | |
| 86 | 86 | | | | | | | | | | |
| 87 | 87 | | | | | | | | | | |
| 88 | 88 | | | | | | | | | | |
| 89 | 89 | | | | | | | | | | |
| 90 | 90 | | | | | | | | | | |
| 91 | 91 | | | | | | | | | | |
| 92 | 92 | | | | | | | | | | |
| 93 | 93 | | | | | | | | | | |
| 94 | 94 | | | | | | | | | | |
| 95 | 95 | | | | | | | | | | |
| 96 | 96 | | | | | | | | | | |
| 97 | 97 | | | | | | | | | | |
| 98 | 98 | | | | | | | | | | |
| 99 | 99 | | | | | | | | | | |
| 100 | 100 | | | | | | | | | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|--------------|---------|-------|---|
| 0 | 1 | | | | | | | | | | Major Lithology: NANNOFOSSIL- SILICEOUS CHALK entire core: light greenish gray (10GY 7/2 to 10GY 8/2); burrow mottled throughout except as noted; identified traces: Zoophycus, Planolites, Chondrites; Planolites and Chondrites sometimes filled with finely disseminated pyrite; vague light/dark alternations. |
| 2 | 2 | | | | | | | | | | drilling biscuits (~10 cm spacing) throughout core |
| 3 | 3 | | | | | | | | | | pyrite |
| 4 | 4 | | | | | | | | | | slightly darker |
| 5 | 5 | | | | | | | | | | darker layer |
| 6 | 6 | | | | | | | | | | pyrite scattered through sections 4 to 6 |
| 7 | 7 | | | | | | | | | | 104 to 112 cm- laminated |
| 8 | 8 | | | | | | | | | | 55 to 57 cm- laminated |
| 9 | 9 | | | | | | | | | | 60 to 90 cm- pyrite declines in abundance |
| 10 | 10 | | | | | | | | | | darker |
| 11 | 11 | | | | | | | | | | 90 to 95 cm- slump fold, deformed sediments and superjacent 5 cm laminated, darker |
| 12 | 12 | | | | | | | | | | SM: 82 cm SILICEOUS MICRITE CHALK WITH FORAMINIFERS |
| 13 | 13 | | | | | | | | | | pyrite absent to base of core |
| | | | | | | | | early Eocene | | | |
| | | | | | | | | | SS | | |
| | | | | | | | | | PAL | | |

SITE 1050 HOLE A CORE 25X

CORED 228.0-237.7 mbsf

1050A-25X

1050A-26X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTNOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--|------------------|-----------|---------------------|-------------|---------------|---------|------------------|--------------|---------|-------|--|
| 228.0 229.0 230.0 231.0 232.0 233.0 234.0 235.0 236.0 237.0 | 25 CC | | | ▲ | | | | early Eocene | | gn GY | <p>REMARKS</p> <p>— SILICEOUS NANNOFOSSIL CHALK</p> <p>CHERT at the base</p> <p>grayish green (5G 6/2)</p> <p>— CHERT</p> |

SITE 1050 HOLE A CORE 26X

CORED 237.7-241.7 mbsf

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTNOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|---|------------------|-----------|---------------------|-------------|---------------|---------|------------------|----------------|----------------|-----------------------|---|
| 237.7 238.0 238.5 239.0 239.5 240.0 240.5 241.0 241.7 | 26 | | | Mn | | | | late Paleocene | SS IW SS | lt gn GY med gn GY | <p>REMARKS</p> <p>— NANNOFOSSIL CLAY WITH SPICULES and NANNOFOSSIL CLAY WITH FORAMINIFERS AND SPICULES</p> <p>Light grayish green (5G 8/2) NANNOFOSSIL CLAY WITH SPICULES (0-3.90 m) grades into moderate-light grayish green (5G 6/2) NANNOFOSSIL CLAY WITH FORAMINIFERS AND SPICULES downcore.</p> <p>— Mn nodule fragment on top and Mn spots 0-5 cm (downhole contamination)</p> <p>— Drilling biscuits throughout core</p> <p>— High bioturbation throughout core</p> <p>— 72-79 cm some laminations observed</p> <p>— 90 cm: irregular contact of color and change to a NANNOFOSSIL CLAY WITH FORAMINIFERS AND SPICULES</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|-----------|-----------|---|
| 0 | 1 | | | | | | | | SS | pal gy GN | NANNOFOSSIL CHALK WITH CLAY AND SPICULES Alternating layers of pale grayish green (10GY 8/1) and grayish green (10GY 7/1) bioturbated NANNOFOSSIL CHALK WITH CLAY AND SPICULES Highly biscuited from Section 1, 113 cm downcore |
| 1 | 2 | | | | | | | | gy GN | | |
| 2 | 3 | | | | | | | | pal gy GN | | |
| 3 | 4 | | | | | | | | pal gy GN | | |
| 4 | 5 | | | | | | | | pal gy GN | | |
| 5 | 6 | | | | | | | | pal gy GN | | |
| 6 | 7 | | | | | | | | pal gy GN | | |
| 7 | 8 | | | | | | | | pal gy GN | | |
| 8 | 9 | | | | | | | | pal gy GN | | |
| 9 | 10 | | | | | | | | pal gy GN | | |
| 10 | 11 | | | | | | | | pal gy GN | | |
| 11 | 12 | | | | | | | | gy GN | | |
| | | | | | | | | | PAL | | |

SITE 1050 HOLE A CORE 30X

CORED 266.5-276.1 mbsf

1050A-30X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|-----------|--|
| 0 | 1 | | | | | | | | SS | lt gy GN | CLAYEY NANNOFOSSIL CHALK to NANNOFOSSIL CHALK WITH CLAY AND SPICULES light to moderate grayish gray (10GY 8/1-10GY 7/1-10GY 6/1); darker color is richer in clay High to moderate bioturbation throughout core |
| 2 | 2 | | | | | | | | | mit gy GN | Biscuited downcore from Section 2 at 100 cm, upcore slightly fractured |
| 3 | 3 | | | | | | | | | mit gy GN | |
| 4 | 4 | | | | | | | | | mit gy GN | |
| 5 | 5 | | | | | | | | | mit gy GN | |
| 6 | 6 | | | | | | | | | mit gy GN | |
| 7 | 7 | | | | | | | | | mit gy GN | |
| 8 | 8 | | | | | | | | | mit gy GN | |
| 9 | 9 | | | | | | | | | mit gy GN | |
| 10 | 10 | | | | | | | | | mit gy GN | |
| 11 | 11 | | | | | | | | | mit gy GN | |
| 12 | 12 | | | | | | | | | mit gy GN | |
| 13 | 13 | | | | | | | | | mit gy GN | |
| 14 | 14 | | | | | | | | | mit gy GN | |
| 15 | 15 | | | | | | | | | mit gy GN | |
| 16 | 16 | | | | | | | | | mit gy GN | |
| 17 | 17 | | | | | | | | | mit gy GN | |
| 18 | 18 | | | | | | | | | mit gy GN | |
| 19 | 19 | | | | | | | | | mit gy GN | |
| 20 | 20 | | | | | | | | | mit gy GN | |
| 21 | 21 | | | | | | | | | mit gy GN | |
| 22 | 22 | | | | | | | | | mit gy GN | |
| 23 | 23 | | | | | | | | | mit gy GN | |
| 24 | 24 | | | | | | | | | mit gy GN | |
| 25 | 25 | | | | | | | | | mit gy GN | |
| 26 | 26 | | | | | | | | | mit gy GN | |
| 27 | 27 | | | | | | | | | mit gy GN | |
| 28 | 28 | | | | | | | | | mit gy GN | |
| 29 | 29 | | | | | | | | | mit gy GN | |
| 30 | 30 | | | | | | | | | mit gy GN | |
| 31 | 31 | | | | | | | | | mit gy GN | |
| 32 | 32 | | | | | | | | | mit gy GN | |
| 33 | 33 | | | | | | | | | mit gy GN | |
| 34 | 34 | | | | | | | | | mit gy GN | |
| 35 | 35 | | | | | | | | | mit gy GN | |
| 36 | 36 | | | | | | | | | mit gy GN | |
| 37 | 37 | | | | | | | | | mit gy GN | |
| 38 | 38 | | | | | | | | | mit gy GN | |
| 39 | 39 | | | | | | | | | mit gy GN | |
| 40 | 40 | | | | | | | | | mit gy GN | |
| 41 | 41 | | | | | | | | | mit gy GN | |
| 42 | 42 | | | | | | | | | mit gy GN | |
| 43 | 43 | | | | | | | | | mit gy GN | |
| 44 | 44 | | | | | | | | | mit gy GN | |
| 45 | 45 | | | | | | | | | mit gy GN | |
| 46 | 46 | | | | | | | | | mit gy GN | |
| 47 | 47 | | | | | | | | | mit gy GN | |
| 48 | 48 | | | | | | | | | mit gy GN | |
| 49 | 49 | | | | | | | | | mit gy GN | |
| 50 | 50 | | | | | | | | | mit gy GN | |
| 51 | 51 | | | | | | | | | mit gy GN | |
| 52 | 52 | | | | | | | | | mit gy GN | |
| 53 | 53 | | | | | | | | | mit gy GN | |
| 54 | 54 | | | | | | | | | mit gy GN | |
| 55 | 55 | | | | | | | | | mit gy GN | |
| 56 | 56 | | | | | | | | | mit gy GN | |
| 57 | 57 | | | | | | | | | mit gy GN | |
| 58 | 58 | | | | | | | | | mit gy GN | |
| 59 | 59 | | | | | | | | | mit gy GN | |
| 60 | 60 | | | | | | | | | mit gy GN | |
| 61 | 61 | | | | | | | | | mit gy GN | |
| 62 | 62 | | | | | | | | | mit gy GN | |
| 63 | 63 | | | | | | | | | mit gy GN | |
| 64 | 64 | | | | | | | | | mit gy GN | |
| 65 | 65 | | | | | | | | | mit gy GN | |
| 66 | 66 | | | | | | | | | mit gy GN | |
| 67 | 67 | | | | | | | | | mit gy GN | |
| 68 | 68 | | | | | | | | | mit gy GN | |
| 69 | 69 | | | | | | | | | mit gy GN | |
| 70 | 70 | | | | | | | | | mit gy GN | |
| 71 | 71 | | | | | | | | | mit gy GN | |
| 72 | 72 | | | | | | | | | mit gy GN | |
| 73 | 73 | | | | | | | | | mit gy GN | |
| 74 | 74 | | | | | | | | | mit gy GN | |
| 75 | 75 | | | | | | | | | mit gy GN | |
| 76 | 76 | | | | | | | | | mit gy GN | |
| 77 | 77 | | | | | | | | | mit gy GN | |
| 78 | 78 | | | | | | | | | mit gy GN | |
| 79 | 79 | | | | | | | | | mit gy GN | |
| 80 | 80 | | | | | | | | | mit gy GN | |
| 81 | 81 | | | | | | | | | mit gy GN | |
| 82 | 82 | | | | | | | | | mit gy GN | |
| 83 | 83 | | | | | | | | | mit gy GN | |
| 84 | 84 | | | | | | | | | mit gy GN | |
| 85 | 85 | | | | | | | | | mit gy GN | |
| 86 | 86 | | | | | | | | | mit gy GN | |
| 87 | 87 | | | | | | | | | mit gy GN | |
| 88 | 88 | | | | | | | | | mit gy GN | |
| 89 | 89 | | | | | | | | | mit gy GN | |
| 90 | 90 | | | | | | | | | mit gy GN | |
| 91 | 91 | | | | | | | | | mit gy GN | |
| 92 | 92 | | | | | | | | | mit gy GN | |
| 93 | 93 | | | | | | | | | mit gy GN | |
| 94 | 94 | | | | | | | | | mit gy GN | |
| 95 | 95 | | | | | | | | | mit gy GN | |
| 96 | 96 | | | | | | | | | mit gy GN | |
| 97 | 97 | | | | | | | | | mit gy GN | |
| 98 | 98 | | | | | | | | | mit gy GN | |
| 99 | 99 | | | | | | | | | mit gy GN | |
| 100 | 100 | | | | | | | | | mit gy GN | |
| 101 | 101 | | | | | | | | | mit gy GN | |
| 102 | 102 | | | | | | | | | mit gy GN | |
| 103 | 103 | | | | | | | | | mit gy GN | |
| 104 | 104 | | | | | | | | | mit gy GN | |
| 105 | 105 | | | | | | | | | mit gy GN | |
| 106 | 106 | | | | | | | | | mit gy GN | |
| 107 | 107 | | | | | | | | | mit gy GN | |
| 108 | 108 | | | | | | | | | mit gy GN | |
| 109 | 109 | | | | | | | | | mit gy GN | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|-----------|-------|---|
| 1 | | | | | | | | | | | CLAYEY NANNOFOSSIL CHALK WITH SPICULES and NANNOFOSSIL CLAY WITH SPICULES Grayish green (10GY 7/1) bioturbated CLAYEY NANNOFOSSIL CHALK W/SPICULES interbedded with medium green (10GY 6/1) bioturbated NANNOFOSSIL CLAY W/ SPICULES Biscuitied throughout Sections 4 through CC. |
| 2 | | | | | | | | SS | gy GN | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | med gy GN | | |
| 5 | | | | | | | | SS | med gy GN | | |
| 6 | | | | | | | | | gy GN | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |

SITE 1050 HOLE A CORE 32X

CORED 285.7-288.9 mbsf



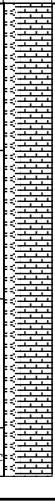
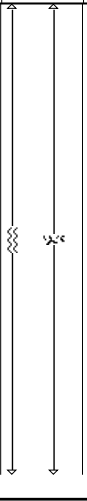

1050A-32X



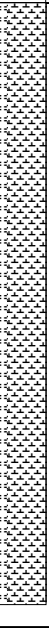


| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|--|---------------------|-------------|-------------|---------|------------------|----------------|---------|----------|--|
| 0 | 1 | CLAYEY NANNOFOSSIL CHALK WITH SPICULES | | | | | | | SS | | light grayish green (10 GY 8/1) Highly biscuited throughout core Moderate bioturbation throughout core |
| 1 | 2 | | | | | | | late Paleocene | IW | lt gy GN | |
| 2 | 3 | | | | | | | | | | |
| 3 | 4 | | | | | | | | | | |
| 4 | 5 | | | | | | | | | | |
| 5 | 6 | | | | | | | | | | |
| 6 | | | | | | | | | PAL | | |

SITE 1050 HOLE A CORE 34X

CORED 295.3-304.9 mbsf

1050A-34X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHI NO FOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|---|---|---|---------------------|-------------|---|---------|---|-----------------------|---------|-----------------|--|
|  |  |  | | |  | |  | <p>late Paleocene</p> | | <p>lt gn GY</p> | <p>SILICEOUS NANNOFOSSIL CHALK</p> <p>drilling biscuted at regular intervals, about every 10-15 cm.</p> <p>alternating light dark intervals (1-2GY 6/1) light greenish gray</p> <p>scattered specks of pyrite, rare pyrite lined burrows</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--|--|--|------------------------------------|--|---------|--|----------------------|-------------------|---------------|--|
|  |  |  | |  | |  | <p>middle Eocene</p> | <p>SS PAL</p> | <p>pal YE</p> | <p>SILICEOUS NANNOFOSSIL OOZE (5Y 8/2) pale yellow, homogeneous in entire core</p> <p>hard olive colored flakes (unident.)</p> <p>VITRIC ASH layer</p> |

SITE 1050 HOLE B CORE 2H

CORED 7.0-16.5 mbsf

1050B-2H

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTNOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|-----|---------|-------|---|
| 1 | | | | | | | | | | | SILICEOUS NANNOFOSSIL OOZE 5Y 8/2 pale yellow some Mn flecks (probably downhole contamination) |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
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| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|---------------|---------|--------|--|
| | | | | | | | | middle Eocene | PAL | pal YE | <p>SILICEOUS NANNOFOSSIL OOZE (5Y 8/1 to 5Y2/3) pale yellow</p> <p>Mn specks scattered throughout</p> <p>when core is scraped, burrow structures and bioturbation visible, as are subtle light-dark alternations on 3-4 cm scale</p> |

SITE 1050 HOLE B CORE 4H

CORED 26.0-35.5 mbsf

1050B-4H

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|--|---------------------|-------------|-------------|---------|------------------|---------------|---------|--------|---|
| 0 | 1 | [Lithology pattern: fine-grained siliceous ooze] | | | ↑ | | ∩ | middle Eocene | SS | | SILICEOUS NANNOFOSSIL OOZE pale yellow (5Y 8/2) |
| 1 | 2 | | | | | | | | | | |
| 2 | 3 | | | | ↑ | | | | | | |
| 3 | 4 | | | | | | | | | | |
| 4 | 5 | | | | | | | | SS | pal YE | SM, Section 4, 71 cm: oxidized pyrite bleb in a SILICEOUS NANNOFOSSIL OOZE |
| 5 | 6 | | | | | | | | | | |
| 6 | 7 | | | | | | | | | | |
| 7 | 8 | | | | | | | | PAL | | |

| METERS | CORE AND SECTION LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|-------------------------------|---------------------|-------------|-------------|---------|------------------|----------------------|--------------------------------|--|---|
| | | | | | | | <p>middle Eocene</p> | <p>SS SS SS SS</p> | <p>pal YE</p> <p>lt gy GN</p> <p>SS</p> <p>PAL</p> | <p>SILICEOUS NANNOFOSSIL OOZE pale yellow (5Y 8/2) changing to light grayish green (5G 8/2) at 2.29 m.</p> <p>0-20 cm: drilling disturbance; Mn oxide fragments (downhole contamination)</p> <p>75-85 and 100-108 cm: intervals rich in oxidized pyrite blebs</p> <p>79 cm: sharp color change from pale yellow to light grayish green through 2 mm of light gray (2.5Y 7/2); at 81 cm another light gray layer 2 mm thick; downcore, light grayish green (5G 8/2); no change in sediment composition</p> <p>From 79 cm downcore, abundant Pyrite blebs</p> <p>At 112, 114, and 117 cm, thin brownish gray layers rich in pyrite.</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHIKOFOSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|--------------|---------|----------------------|----------------------|---------------|---|---------|
| | | | | | | | <p>middle Eocene</p> | <p>— SS — SS</p> | <p>vpl GN</p> | <p>SILICEOUS NANNOFOSSIL OOZE very pale green (10G 7/1 to 8/1) Pyrite flecks and brownish gray Pyrite-staining scattered throughout Section 1, 0-16 cm: slurry w/Mn</p> <p>SD Section 2, 90 cm</p> <p>SM: Section 2, 116 cm: burrow 114-117 cm, slightly more clay than dominant lithology, and darker green.</p> | |
| | | | | | | | | | <p>— PAL</p> | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTNOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|---------------|-----------------|--------|--|
| | | | | | | | | middle Eocene | SS SS PAL | vpl GN | SILICEOUS NANNOFOSSIL OOZE very pale green (10G 7/1-8/1) pyrite flecks scattered throughout core Section 1, 0-15 cm: biscuits SM Section 4, 38 cm: VITRIC ASH W/NANNOFOSSILS & opaques (layer 37-38 cm) |

SITE 1050 HOLE B CORE 8H

CORED 64.0-73.5 mbsf

1050B-8H

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|----------------------|---------------------------|------------|--|
| | | | | | | | | <p>middle Eocene</p> | <p>SS</p> <p>lt gy GN</p> | <p>PAL</p> | <p>SILICEOUS NANNOFOSSIL OOZE grading downcore to SILICEOUS NANNOFOSSIL CHALK light grayish green (5G 8/1)</p> <p>Pyrite blebs throughout core</p> <p>Moderate bioturbation throughout core</p> <p>Section 5 downcore slightly fractured</p> |

| METERS | CORE AND SECTION LITHOLOGY | PHYSICAL STRUCTURES ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|----------------------------|---------------------------------|-------------|---------|------------------|----------------------|----------------------|-----------------|---|
| | | | | | | <p>middle Eocene</p> | <p>SS</p> <p>PAL</p> | <p>lt gy GN</p> | <p>NANNOFOSSIL CHALK WITH SPICULES AND CARBONATE GRAINS light grayish green (5G 8/1)</p> <p>0-10 cm: drilling disturbances and Mn nodule fragments</p> <p>Pyrite throughcore</p> <p>Moderate-high bioturbation throughout core (burrow mottled)</p> |

SITE 1050 HOLE B CORE 10X

CORED 83-90.6 mbsf

1050B-10X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|----------------------|--------------------------|--------------|--|
| | | | | | | | | <p>middle Eocene</p> | <p>SS SS PAL</p> | <p>lt GN</p> | <p>NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS (9GY 7/1) light green drilling biscuits throughout slightly-moderately bioturbated some burrows lined with pyrite</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|-------------|------------------|---------------|---------|-------|---|
| 0-1 | | | | ▲▲▲ | | | | | | | <p>— NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS</p> <p>(9GY 7/1) light green</p> <p>Section 1, 0-18 cm: downhole caving of Mn nodules</p> <p>Drilling disturbance moderate to severe; drilling biscuits are fractuely 2-4 cm thick, between drilling slurry 2-5 cm thick</p> |
| 1-6 | | | | | | ⊕ ✕ ◇ | | middle Eocene | SS | lt GN | |
| 6-7 | | | | | | | | | SS | | <p>SM: Section 6, 27 cm gray slurry between biscuits</p> <p>NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS AND ASH</p> |
| 7-8 | | | | | | | | | PAL | | |

SITE 1050 HOLE B CORE 12X

CORED 100.2-109.8 mbsf

1050B-12X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHNOFOSFILLS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|-----|---------|----------|--|
| 0 | | | | | | | | | | | |
| 1 | | | | | | ◇ | | | | | |
| 2 | | | | | | ✕ | | | SS | | <p>NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS</p> <p>light greenish gray (10GY 8/1)</p> <p>homogeneous, with rare black flecks</p> <p>biscuited throughout (3-4 cm biscuits, every 6-7 cm.)</p> |
| 3 | | | | | | ⊗ | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | lt gn GY | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | SS | | SM: Section 6, 147 cm |
| 8 | | | | | | | | | PAL | | NANNOFOSSIL VITRIC ASH |



SITE 1050 HOLE B CORE 14X

CORED 119.4-129.0 mbsf

1050B-14X

| MEETERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHNOFOSFILLS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|---------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|-----|---------|-------|---------|
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NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS
 (5G 8/1 to 10GY 8/1)
 pale green to pale yellowish green
 homogeneous except for a few faint laminae
 drilling biscuits throughout

SM: Section 5, 46 and 48 cm VITRIC ASH

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|---|---------|--|---------|
| | | | | | | | | middle Eocene SS pal gn GY SS PAL | | SILICEOUS NANNOFOSSIL CHALK pale greenish gray (5GY 8/1 to 10 GY 8/3) drilling biscuits throughout homogeneous, with faint burrow mottles rare dark flecks (MnO?) throughout SM: Sec CC, 65 cm VITRIC ASH WITH SILICEOUS MICROFOSSILS AND NANNOFOSSILS | |

SITE 1050 HOLE B CORE 16X

CORED 138.6-148.2 mbsf

1050B-16X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|-------|--|
| 0.5 | 1 | | | | | | | | | | <p>SILICEOUS NANNOFOSSIL CHALK grading downward into NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS</p> <p>pale greenish gray to light greenish gray (5GY 8/2 to 10GY 8/2)</p> <p>minor lithology: CHERT (5GY 7/1) Sec. 1</p> <p>CHERT, 80-100 cm (5GY 7/1)</p> |
| 1 | 2 | | | | | | | | | | |
| 1.6 | 3 | | | | | | | | | | |
| 2 | 4 | | | | | | | | | | |
| 2.5 | 5 | | | | | | | | | | |
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| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHIKOFOSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|--------------|---------|------------------|-----|---------|-------|---------|
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NANNOFOSSIL CHALK WITH SILICEOUS MICROFOSSILS

white (N/8) to pale greenish gray (5GY 8/2 to 10GY 8/1)

Downhole of Section 4, 75 cm, the sediment becomes coarser and increasingly burrow-mottled until the chert layer in Section 6.

mit gn GY

Section 6, 23-32 cm. HARDGROUND grading from green to greenish brown; altered, bioturbated ASH.

middle Eocene

early Eocene
SS
PAL

SITE 1050 HOLE B CORE 18X

CORED 154.7-157.8 mbsf

1050B-18X

1050B-19X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|---|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|----------|-----------|---|
| 1.8 1.9 2.0 2.1 2.2 2.3 2.4 | | | | | | | | early Eocene | SS SS | pal ye GN | <p>SILICEOUS NANNOFOSSIL CHALK</p> <p>Pale green (10GY 8/1) bioturbated SSILICEOUS NANNOFOSSIL CHALK with two LIMESTONE interbeds (0-5 cm and 20-30 cm). Biscuited throughout core.</p> <p>121 cm, bioturbated altered ASH</p> <p>Pale brown, bioturbated ASH layer</p> |

SITE 1050 HOLE B CORE 19X

CORED 157.8-167.4 mbsf

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--|------------------|-----------|---------------------|-------------|-------------|---------|------------------|---------------|---------|----------|--|
| 1.9 2.0 2.1 2.2 2.3 2.4 | | | | | | | | middle Eocene | | lt gy GN | <p>SILICEOUS NANNOFOSSIL CHALK</p> <p>Light grayish green (5Y 8/1)</p> <p>0-10 cm: highly fractured chert fragments</p> <p>Biscuited throughout core</p> <p>In biscuits, moderate bioturbation throughout core</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|---------|-----------|--|
| 0 | 1 | | | Mh | | | 0000 | | | | <p>SILICEOUS NANNOFOSSIL CHALK</p> <p>pale grayish green (10GY 8/1)</p> <p>Entire core is homogenous, moderately bioturbated and highly biscuited.</p> |
| 2 | 2 | | | | | | | | | | |
| 4 | 3 | | | | | | | | | | |
| 6 | 4 | | | | | | | early Eocene | | pal gy GN | |
| 8 | 5 | | | | | | | | | | |
| 10 | 6 | | | | | | | | | | |
| 12 | 7 | | | | | | | | | | |
| 14 | 8 | | | | | | | | | | |
| 16 | 9 | | | | | | | | | | |
| 18 | 10 | | | | | | | | | | |
| 20 | 11 | | | | | | | | | | |
| 22 | 12 | | | | | | | | | | |
| 24 | 13 | | | | | | | | | | |
| 26 | 14 | | | | | | | | | | |
| 28 | 15 | | | | | | | | | | |
| 30 | 16 | | | | | | | | | | |
| 32 | 17 | | | | | | | | | | |
| 34 | 18 | | | | | | | | | | |
| 36 | 19 | | | | | | | | | | |
| 38 | 20 | | | | | | | | | | |
| 40 | 21 | | | | | | | | | | |
| 42 | 22 | | | | | | | | | | |
| 44 | 23 | | | | | | | | | | |
| 46 | 24 | | | | | | | | | | |
| 48 | 25 | | | | | | | | | | |
| 50 | 26 | | | | | | | | | | |
| 52 | 27 | | | | | | | | | | |
| 54 | 28 | | | | | | | | | | |
| 56 | 29 | | | | | | | | | | |
| 58 | 30 | | | | | | | | | | |
| 60 | 31 | | | | | | | | | | |
| 62 | 32 | | | | | | | | | | |
| 64 | 33 | | | | | | | | | | |
| 66 | 34 | | | | | | | | | | |
| 68 | 35 | | | | | | | | | | |
| 70 | 36 | | | | | | | | | | |
| 72 | 37 | | | | | | | | | | |
| 74 | 38 | | | | | | | | | | |
| 76 | 39 | | | | | | | | | | |
| 78 | 40 | | | | | | | | | | |
| 80 | 41 | | | | | | | | | | |
| 82 | 42 | | | | | | | | | | |
| 84 | 43 | | | | | | | | | | |
| 86 | 44 | | | | | | | | | | |
| 88 | 45 | | | | | | | | | | |
| 90 | 46 | | | | | | | | | | |
| 92 | 47 | | | | | | | | | | |
| 94 | 48 | | | | | | | | | | |
| 96 | 49 | | | | | | | | | | |
| 98 | 50 | | | | | | | | | | |
| 100 | 51 | | | | | | | | | | |
| 102 | 52 | | | | | | | | | | |
| 104 | 53 | | | | | | | | | | |
| 106 | 54 | | | | | | | | | | |
| 108 | 55 | | | | | | | | | | |
| 110 | 56 | | | | | | | | | | |
| 112 | 57 | | | | | | | | | | |
| 114 | 58 | | | | | | | | | | |
| 116 | 59 | | | | | | | | | | |
| 118 | 60 | | | | | | | | | | |
| 120 | 61 | | | | | | | | | | |
| 122 | 62 | | | | | | | | | | |
| 124 | 63 | | | | | | | | | | |
| 126 | 64 | | | | | | | | | | |
| 128 | 65 | | | | | | | | | | |
| 130 | 66 | | | | | | | | | | |
| 132 | 67 | | | | | | | | | | |
| 134 | 68 | | | | | | | | | | |
| 136 | 69 | | | | | | | | | | |
| 138 | 70 | | | | | | | | | | |
| 140 | 71 | | | | | | | | | | |
| 142 | 72 | | | | | | | | | | |
| 144 | 73 | | | | | | | | | | |
| 146 | 74 | | | | | | | | | | |
| 148 | 75 | | | | | | | | | | |
| 150 | 76 | | | | | | | | | | |
| 152 | 77 | | | | | | | | | | |
| 154 | 78 | | | | | | | | | | |
| 156 | 79 | | | | | | | | | | |
| 158 | 80 | | | | | | | | | | |
| 160 | 81 | | | | | | | | | | |
| 162 | 82 | | | | | | | | | | |
| 164 | 83 | | | | | | | | | | |
| 166 | 84 | | | | | | | | | | |
| 168 | 85 | | | | | | | | | | |
| 170 | 86 | | | | | | | | | | |
| 172 | 87 | | | | | | | | | | |
| 174 | 88 | | | | | | | | | | |
| 176 | 89 | | | | | | | | | | |
| 177 | 90 | | | | | | | | | | |

SITE 1050 HOLE B CORE 21X

CORED 177.0-186.6 mbsf

1050B-21X

| METERS | CORE AND SECTION LITHOLOGY | PHYSICAL STRUCTURES ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|----------------------------|---------------------------------|-------------|---------|------------------|---------------------|----------------------|------------------|---|
| | | | | | | <p>early Eocene</p> | <p>SS</p> <p>PAL</p> | <p>pal gy GN</p> | <p>SILICEOUS NANNOFOSSIL CHALK</p> <p>Core consists of homogeneous, pale grayish green (10GY 7/1), moderately bioturbated, SILICEOUS NANNOFOSSIL CHALK. Entire core is highly biscuitied.</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------|-------------------|-------|---|
| 0 | 1 | | | | | | | | | | <p>SILICEOUS CARBONATE CHALK WITH NANNOFOSSILS AND CLAY</p> <p>General description: The entire core consists of monotonous and largely structureless light greenish gray (5GY 7/1) to greenish gray (5GY 8/1) SILICEOUS CHALK WITH NANNOFOSSILS AND CLAY. Millimeter-sized dark spots (Mn-oxides?) occur throughout the core. Bedding is not visible which is presumably due to pervasive, strong bioturbation. The core is moderately disturbed with biscuit length in the range of 10 to 30 cm.</p> <p>faint dark layer bearing rare-common biotite; possible ash</p> <p>sharp color change</p> <p>mottled color transition</p> <p>faint dark layer (Mn oxide?)</p> |
| 2 | | | | | | | | | lt gn GY gn GY | | |
| 3 | | | | | | | | | SS | | |
| 4 | | | | | | | | early Eocene | gn GY | | |
| 5 | | | | | | | | | SS | | |
| 6 | | | | | | | | | lt gn GY gn GY | | |
| | | | | | | | | | | | PAL |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|---------------------|-----------------------------|--------------------|---|
| | | | | | | | | early Eocene PAL | SS SS SS pal gy GN | pale grayish green | SILICEOUS CHALK WITH NANNOFOSSILS AND CLAY Pale grayish green (10GY 7/2) Moderate bioturbation and abundant pyrite throughout core Biscuiting throughout core At 24 and 63 cm thin pyrite-rich layers |

SITE 1050 HOLE B CORE 25X

CORED 215.5-225.1 mbsf

1050B-25X




| METERS CORE AND SECTION LITHOLOGY | PHYSICAL STRUCTURES ACCESSORIES | ICHOINOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|---|------------------------------------|----------------|---------|------------------|---------------------|----------------------|------------------|---|
| | | | | | <p>early Eocene</p> | <p>SS</p> <p>PAL</p> | <p>pal gy GN</p> | <p>SILICEOUS NANNOFOSSIL CHALK WITH CLAY pale grayish green (10GY 7/1) with intervals of grayish green (10GY 6/1) moderate bioturbation throughout pyrite flecks & some pyrite-filled burrows biscuits throughout</p> <p>SD Section 1, 72 cm</p> <p>Zoophycos burrow, Section 5, 134-135 cm</p> |

SITE 1050 HOLE B CORE 26X

CORED 225.1-230.4 mbsf




1050B-26X

1050B-27X

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|----------|------------------|---|---------------------|-------------|---|---------|---|--------------|-----------------|-----------|---|
| 26 27 | |  | | |  | |  | early Eocene | PAL SS SS | pal gn GY | <p>NANNOFOSSIL CHALK WITH CLAY and LIMESTONE</p> <p>Upper (0-14 cm) and lower (27-31 cm) part of core consist of fractured chunks of grayish green LIMESTONE. Remainder (17-25 cm) consists of pale grayish green, moderately bioturbated CLAYEY NANNOFOSSIL CHALK WITH CLAY.</p> |

SITE 1050 HOLE B CORE 27X

CORED 230.4-240.0 mbsf

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|----------|------------------|---|---------------------|-------------|---|---------|---|--------------|-----------|-----------|---|
| 27 28 | |  | | |  | |  | early Eocene | SS PAL | pal gy GN | <p>NANNOFOSSIL CHALK WITH CLAY</p> <p>Pale grayish green (10GY 7/1)</p> <p>0-15 cm: Black blebs</p> <p>Moderate bioturbation throughout core, burrows more abundant at 31 cm</p> <p>Biscuiting and highly fractured throughout core</p> |

SITE 1050 HOLE C CORE 2R

CORED 327.1-336.7 mbsf

| METRES | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | COREDISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|-----------------|-----------------|----------|-------|--|
| 1 | | | | | | | | | | | <p>CLAYEY CARBONATE SILICEOUS CHALK WITH NANNOFOSSILS</p> <p>Entire core is structureless, greenish gray (5GY 6/1) CLAYEY CARBONATE SILICEOUS CHALK WITH NANNOFOSSILS with occasional laminae of more intensely green material. Drilling disturbance is highly variable. Moderately fragmented intervals have biscuit length partly below 5 cm, whereas Sect. 1 and 2 are hardly disturbed at all. Voids on mm-scale occur throughout.</p> <p>49 cm: 4 mm hollow shark tooth</p> <p>gradational color change</p> |
| 2 | | | | | | | | | lt gn GY | | |
| 3 | | | | | | | | | lt gn GY | | |
| 4 | | | | | | | | | gn GY | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| | | | | | | | | late Paleocene | IW | | |
| | | | | | | | | early Paleocene | | | |
| | | | | | | | | | | | PAL |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----------------|---------|----------------------|--|
| 0 | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| | | | | | | | | early Paleocene | | lt gn GY dk gn GY | <p>CLAYEY CARBONATE SILICEOUS CHALK WITH NANNOFOSSILS and CHERT</p> <p>Entire core is structureless light greenish gray (5GY 6/1) to greenish gray (2.5GY 5/1) CLAYEY CARBONATE SILICEOUS CHALK WITH NANNOFOSSILS with occasional, slightly more vivid green laminae. In Sections 1 and 2, these laminae appear to occur in a cyclic manner. The laminae consist of CARBONATE SILICEOUS CLAYSTONE WITH FORAMINIFERS AND NANNOFOSSILS. Composition is similar to dominant lithology, but the laminae have more carbonate and are coarser-grained. CHERT and silicified intervals of the dominant lithology occur in Sections 3 through 5. Drilling disturbance is restricted to these silicified/cherty intervals. Several mm-scale open voids occur throughout the core.</p> |
| | | | | | | | | | | | PAL CC entirely consumed for micropaleontology sample |

SITE 1050 HOLE C CORE 4R

CORED 346.3-355.9 mbsf

1050C-4R

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----------------|---------|----------------|---|
| 0 | 1 | | | | | | | | SS | | <p>CLAYSTONE WITH NANNOFOSSILS AND CARBONATE GRAINS and CLAYSTONE WITH NANNOFOSSILS</p> <p>7 cm: Entire echinoid, flattened, with spines.</p> <p>Greenish gray (5G 5/1), laminated CLAYSTONE WITH NANNOFOSSILS AND CARBONATE GRAINS grades downward to CLAYSTONE WITH NANNOFOSSILS, faintly burrow-mottled throughout. Green bands every 2-3 cm throughout core; a few dark gray bands are pyritic, apparent diagenetic fronts. Slightly bioturbated with Phycoides, Chondrites, and rare Zoophycos. Burrows outlined or completely filled with black, framboidal pyrite.</p> |
| 2 | 2 | | | | | | | | | | |
| 4 | 3 | | | | | | | early Paleocene | | gn GY lt GY | |
| 6 | 4 | | | | | | | | SS | | |
| 8 | 5 | | | Py | | | | | | | |
| 8 | 6 | | | | | | | | PAL | | |

SITE 1050 HOLE C CORE 5R

CORED 355.9-365.5 mbsf

1050C-5R

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|-------|---------|
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |

CLAYSTONE WITH NANNOFOSSILS

Homogeneous, greenish gray CLAYSTONE WITH NANNOFOSSILS, faintly burrow-mottled. Chondrites burrows at regular (~50cm) intervals. faint light-dark alternations in Sections 5 and 6.

SS

gn GY

IW

PAL

early Paleocene

SITE 1050 HOLE C CORE 8R

CORED 384.9-394.5 mbsf

1050C-8R

| MEETERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|---------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|-----------|---|
| 0 | 1 | | | | | | | | | | <p>MICRITE NANNOFOSSIL CHALK WITH CLAY, CLAYEY NANNOFOSSIL CHALK</p> <p>Subtle gradations from very light greenish gray (5GY 8/1) to greenish gray (5GY 6/1) with the lighter intervals being more carbonate-rich and the darker intervals being more clay-rich.</p> <p>Burrow mottled throughout.</p> <p>Rare black specks throughout.</p> <p>11-35 cm-Broken pieces (3-5 cm), no slurry; drilling disturbance slight (long pieces, little to no slurry) in remainder of core.</p> <p>Relatively sharp color transition.</p> |
| 1 | 2 | | | | | | | | | lt gn GY | |
| 2 | 3 | | | | | | | | | lt gn GY | |
| 3 | 4 | | | | | | | | | vlt gn GY | |
| 4 | 5 | | | | | | | | | vlt gn GY | |
| 5 | 6 | | | | | | | | | lt gn GY | |
| 6 | 7 | | | | | | | | | gn GY | |
| 7 | 8 | | | | | | | | | lt gn GY | |
| 8 | 9 | | | | | | | | | lt gn GY | |
| 9 | 10 | | | | | | | | | vlt gn GY | |
| | | | | | | | | | | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHO NO FOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-----------------|---------|------------------|-----------------|---------|----------|--|
| 0 | | | | | | | | | | | |
| 1 | | | | | | | | | SS | gy GN | <p>NANNOFOSSIL CLAYSTONE and CLAYSTONE WITH CARBONATE GRAINS AND NANNOFOSSILS</p> <p>Grayish green (10GY 5/1) NANNOFOSSIL CLAYSTONE that grades into light greenish gray (10Y 7/1) CLAYSTONE WITH CARBONATE GRAINS AND NANNOFOSSIL. Bioturbation is moderate to heavy and pyrite lines burrows throughout. Drilling disturbance is slight with some fragmented intervals.</p> <p>Section 2, 17-20 cm: Slightly darker (10GY 7/1) interval severely bioturbated with lighter burrow infillings.</p> |
| 2 | | | | | | ++ | | | SS | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | early Paleocene | | lt gn GY | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | SS | | SM: Section 4, 105 cm: Green thin layer (0.2 cm) very rich in clay. CLAYSTONE |

SITE 1050 HOLE C CORE 10R

CORED 404.1-408.7 mbsf

1050C-10R

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|--------------------|---------|-------------------|--|
| | | | | | | | | | | | |
| 0.0 | | | | | | | | early Paleocene | SS | gn GY lt gn GY | NANNOFOSSIL CLAYSTONE, CLAYSTONE, and CLAYSTONE WITH NANNOFOSSILS |
| 0.1 | | | | | | | | | SS | gn GY | Light greenish gray to greenish gray (10Y 8/1-6/1) burrow-mottled NANNOFOSSIL CLAYSTONE to CLAYSTONE WITH NANNOFOSSILS with pyrite flecks disseminated throughout the core. There are several thin intervals of very light colored sediment (Section 1, 95-96 cm, 98-99 cm, 124-125 cm; Section 2, 44 cm, 45 cm, 47 cm). |
| 0.2 | | | | | | | | | SS | gn GY lt gn GY | Close-up photograph : 120-135 cm |
| 0.3 | | | | | | | | late Maastrichtian | SS | gn GY | Section 1, 125-132 cm: greenish gray (10Y 7/1-6/1) NANNOFOSSILS CLAYSTONE and CLAYSTONE WITH NANNOFOSSILS homogeneous sediment that lacks the bioturbation found in the surrounding core. |
| 0.4 | | | | | | | | | SS | lt gn GY | Section 2, 32-37 cm: slurry with a few small bits of greenish gray (10Y 6/1) NANNOFOSSIL CARBONATE CLAYSTONE and CLAYSTONE with very pale red (7.5R 6/1) slurry. |
| 0.5 | | | | | | | | | SS | gn GY | Section 2, 20-50, and 20-40 cm cm: close-up photographs |
| 0.6 | | | | | | | | | PAL | | 36 cm: K/T BOUNDARY: CLAYSTONE 60 cm: CLAYSTONE WITH NANNOFOSSILS |

METERS

CORE AND SECTION

LITHOLOGY

PHYSICAL STRUCTURES

ACCESSORIES

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CORE DISTURBANCE

AGE

SAMPLES

COLOR

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SITE 1050 HOLE C CORE 11R

CORED 408.7-413.7 mbsf

1050C-11R

1050C-12R

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHO FOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|--------------|---------|------------------|--------------------|----------------|-----------|---|
| 1 | | | | GI | | | | | | | NANNOFOSSIL CLAYSTONE |
| 2 | | | | Py | | | | late Maastrichtian | SS SS SS | lt gn GY | Section 1, 95 cm: Thin sandy lamina of NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS. Light greenish gray (5GY 6/1) NANNOFOSSIL CLAYSTONE. Slightly bioturbated, although subhorizontal laminae are visible. |
| 3 | | | | GI | | | | | SS | mlt gn GY | Section 3, 10-20 cm: Subhorizontal laminae with light layers. |
| 4 | | | | Py GI | | | | | | | |
| | | | | | | | | | | | PAL |

SITE 1050 HOLE C CORE 12R

CORED 413.7-423.3 mbsf

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHO FOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|--------------|---------|------------------|---------------|---------|----------|--|
| 1 | | | | | | | | Maastrichtian | | lt gn GY | NANNOFOSSIL CLAYSTONE Medium-light greenish gray (5GY 6/1) NANNOFOSSIL CLAYSTONE, highly drilling disturbed |
| | | | | | | | | | | | PAL |

SITE 1050 HOLE C CORE 13R

CORED 423.3-433.0 mbsf

1050C-13R

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHO FOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|--------------|---------|------------------|-----|---------|-----------|--|
| 0 | 1 | | | | | | | | | lt gn GY | <p>NANNOFOSSIL CLAYSTONE</p> <p>Light greenish gray (5GY 7/1) NANNOFOSSIL CLAYSTONE moderately bioturbated with pyrite lining some burrows. Lithology is homogeneous throughout with some alternations of lighter-darker color in Section 3. The core is slightly drilling fractured. In Section 1, 96 and 110 cm, some pyrite nodules (0.2-0.3 cm) are observed. Microfaults in Section 3, 93 cm and Section 4, 30-35 cm.</p> |
| 1 | 2 | | | | | | | SS | | | |
| 2 | 3 | | | | | | | | | mlt gn GY | |
| 3 | 4 | | | | | | | | | lt gn GY | |
| 4 | 5 | | | | | | | | | mlt gn GY | |
| 5 | 6 | | | | | | | | | mlt gn GY | |
| 6 | 7 | | | | | | | | | mlt gn GY | |
| 7 | 8 | | | | | | | | | lt gn GY | |
| 8 | 9 | | | | | | | | | | |
| 9 | 10 | | | | | | | | | | |
| 10 | 11 | | | | | | | | | | |
| 11 | 12 | | | | | | | | | | |
| 12 | 13 | | | | | | | | | | |
| 13 | 14 | | | | | | | | | | |
| 14 | 15 | | | | | | | | | | |
| 15 | 16 | | | | | | | | | | |
| 16 | 17 | | | | | | | | | | |
| 17 | 18 | | | | | | | | | | |
| 18 | 19 | | | | | | | | | | |
| 19 | 20 | | | | | | | | | | |
| 20 | 21 | | | | | | | | | | |
| 21 | 22 | | | | | | | | | | |
| 22 | 23 | | | | | | | | | | |
| 23 | 24 | | | | | | | | | | |
| 24 | 25 | | | | | | | | | | |
| 25 | 26 | | | | | | | | | | |
| 26 | 27 | | | | | | | | | | |
| 27 | 28 | | | | | | | | | | |
| 28 | 29 | | | | | | | | | | |
| 29 | 30 | | | | | | | | | | |
| 30 | 31 | | | | | | | | | | |
| 31 | 32 | | | | | | | | | | |
| 32 | 33 | | | | | | | | | | |
| 33 | 34 | | | | | | | | | | |
| 34 | 35 | | | | | | | | | | |
| 35 | 36 | | | | | | | | | | |
| 36 | 37 | | | | | | | | | | |
| 37 | 38 | | | | | | | | | | |
| 38 | 39 | | | | | | | | | | |
| 39 | 40 | | | | | | | | | | |
| 40 | 41 | | | | | | | | | | |
| 41 | 42 | | | | | | | | | | |
| 42 | 43 | | | | | | | | | | |
| 43 | 44 | | | | | | | | | | |
| 44 | 45 | | | | | | | | | | |
| 45 | 46 | | | | | | | | | | |
| 46 | 47 | | | | | | | | | | |
| 47 | 48 | | | | | | | | | | |
| 48 | 49 | | | | | | | | | | |
| 49 | 50 | | | | | | | | | | |
| 50 | 51 | | | | | | | | | | |
| 51 | 52 | | | | | | | | | | |
| 52 | 53 | | | | | | | | | | |
| 53 | 54 | | | | | | | | | | |
| 54 | 55 | | | | | | | | | | |
| 55 | 56 | | | | | | | | | | |
| 56 | 57 | | | | | | | | | | |
| 57 | 58 | | | | | | | | | | |
| 58 | 59 | | | | | | | | | | |
| 59 | 60 | | | | | | | | | | |
| 60 | 61 | | | | | | | | | | |
| 61 | 62 | | | | | | | | | | |
| 62 | 63 | | | | | | | | | | |
| 63 | 64 | | | | | | | | | | |
| 64 | 65 | | | | | | | | | | |
| 65 | 66 | | | | | | | | | | |
| 66 | 67 | | | | | | | | | | |
| 67 | 68 | | | | | | | | | | |
| 68 | 69 | | | | | | | | | | |
| 69 | 70 | | | | | | | | | | |
| 70 | 71 | | | | | | | | | | |
| 71 | 72 | | | | | | | | | | |
| 72 | 73 | | | | | | | | | | |
| 73 | 74 | | | | | | | | | | |
| 74 | 75 | | | | | | | | | | |
| 75 | 76 | | | | | | | | | | |
| 76 | 77 | | | | | | | | | | |
| 77 | 78 | | | | | | | | | | |
| 78 | 79 | | | | | | | | | | |
| 79 | 80 | | | | | | | | | | |
| 80 | 81 | | | | | | | | | | |
| 81 | 82 | | | | | | | | | | |
| 82 | 83 | | | | | | | | | | |
| 83 | 84 | | | | | | | | | | |
| 84 | 85 | | | | | | | | | | |
| 85 | 86 | | | | | | | | | | |
| 86 | 87 | | | | | | | | | | |
| 87 | 88 | | | | | | | | | | |
| 88 | 89 | | | | | | | | | | |
| 89 | 90 | | | | | | | | | | |
| 90 | 91 | | | | | | | | | | |
| 91 | 92 | | | | | | | | | | |
| 92 | 93 | | | | | | | | | | |
| 93 | 94 | | | | | | | | | | |
| 94 | 95 | | | | | | | | | | |
| 95 | 96 | | | | | | | | | | |
| 96 | 97 | | | | | | | | | | |
| 97 | 98 | | | | | | | | | | |
| 98 | 99 | | | | | | | | | | |
| 99 | 100 | | | | | | | | | | |
| 100 | 101 | | | | | | | | | | |
| 101 | 102 | | | | | | | | | | |
| 102 | 103 | | | | | | | | | | |
| 103 | 104 | | | | | | | | | | |
| 104 | 105 | | | | | | | | | | |
| 105 | 106 | | | | | | | | | | |
| 106 | 107 | | | | | | | | | | |
| 107 | 108 | | | | | | | | | | |
| 108 | 109 | | | | | | | | | | |
| 109 | 110 | | | | | | | | | | |
| 110 | 111 | | | | | | | | | | |
| 111 | 112 | | | | | | | | | | |
| 112 | 113 | | | | | | | | | | |
| 113 | 114 | | | | | | | | | | |
| 114 | 115 | | | | | | | | | | |
| 115 | 116 | | | | | | | | | | |
| 116 | 117 | | | | | | | | | | |
| 117 | 118 | | | | | | | | | | |
| 118 | 119 | | | | | | | | | | |
| 119 | 120 | | | | | | | | | | |
| 120 | 121 | | | | | | | | | | |
| 121 | 122 | | | | | | | | | | |
| 122 | 123 | | | | | | | | | | |
| 123 | 124 | | | | | | | | | | |
| 124 | 125 | | | | | | | | | | |
| 125 | 126 | | | | | | | | | | |
| 126 | 127 | | | | | | | | | | |
| 127 | 128 | | | | | | | | | | |
| 128 | 129 | | | | | | | | | | |
| 129 | 130 | | | | | | | | | | |
| 130 | 131 | | | | | | | | | | |
| 131 | 132 | | | | | | | | | | |
| 132 | 133 | | | | | | | | | | |
| 133 | 134 | | | | | | | | | | |
| 134 | 135 | | | | | | | | | | |
| 135 | 136 | | | | | | | | | | |
| 136 | 137 | | | | | | | | | | |
| 137 | 138 | | | | | | | | | | |
| 138 | 139 | | | | | | | | | | |
| 139 | 140 | | | | | | | | | | |
| 140 | 141 | | | | | | | | | | |
| 141 | 142 | | | | | | | | | | |
| 142 | 143 | | | | | | | | | | |
| 143 | 144 | | | | | | | | | | |
| 144 | 145 | | | | | | | | | | |
| 145 | 146 | | | | | | | | | | |
| 146 | 147 | | | | | | | | | | |
| 147 | 148 | | | | | | | | | | |
| 148 | 149 | | | | | | | | | | |
| 149 | 150 | | | | | | | | | | |
| 150 | 151 | | | | | | | | | | |
| 151 | 152 | | | | | | | | | | |
| 152 | 153 | | | | | | | | | | |
| 153 | 154 | | | | | | | | | | |
| 154 | 155 | | | | | | | | | | |
| 155 | 156 | | | | | | | | | | |
| 156 | 157 | | | | | | | | | | |
| 157 | 158 | | | | | | | | | | |
| 158 | 159 | | | | | | | | | | |
| 159 | 160 | | | | | | | | | | |
| 160 | 161 | | | | | | | | | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|--------------------|--|---|
| 0 | | | | | | | | | | | |
| 1 | | | | | | | | | | lt gn GY | NANNOFOSSIL CHALK WITH CLAY and CLAYEY CARBONATE NANNOFOSSILS CHALK |
| 2 | | | | | | | | | | lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY | Alternation of light gray (10Y 7/1) NANNOFOSSIL CHALK WITH CLAY and slightly darker, more brownish CLAYEY CARBONATE NANNOFOSSILS CHALK. 29-36 cm: Piece with irregular, deformed bedding/lamination due to soft-sediment deformation. |
| 3 | | | | | | | | | Pho | lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY | 68-106 cm: Perfect cross section of Zoophycos burrow penetrating almost 40 cm of sediment, but radiating no more than 4 cm. Smaller Zoophycos at 87-95 cm. |
| 4 | | | | | | | | | | lt br GY lt gn GY lt br GY lt gn GY | |
| 5 | | | | | | | | | late Maastrichtian | lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY | |
| 6 | | | | | | | | | | lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY lt br GY lt gn GY | |
| 7 | | | | | | | | | | lt br GY lt gn GY | Sect. 7, 51-56.5 cm (452.11-452.17 mbsf): Laminated brownish gray (7.5YR 6/1) CLAYSTONE WITH NANNOFOSSILS (Bentonite?). Contains rare pieces of altered volcanic glass. Layers offset by drilling-induced fault. CLAYSTONE slurry is squeezed downsection in liner. |
| 8 | | | | | | | | | | lt gn GY | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|--------------------------|---------------------|-------------|-------------|---------|------------------|---------------|---------|-----------|---|
| 0.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | 1 | Maastrichtian | SS | med gn GY | <p>CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS</p> <p>Alternation of light greenish gray (10Y 8/1) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS and moderate-light greenish gray (10Y 7/1 to 10Y 6/1) CLAYEY NANNOFOSSIL CHALK in Section 1, and more variegated color in Sections 2 and 3 with alternations of light greenish gray and brownish gray (7.5YR 5/3). Lighter intervals are richer in foraminifers. Bioturbation is moderate to heavy throughout, the entire core is burrow mottled with darker and lighter burrow infillings.</p> |
| 0.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 0.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | SS | mlt gn GY | |
| 0.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 0.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | mlt gn GY | |
| 0.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 0.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 0.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | mlt gn GY | |
| 0.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 0.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt br GY | |
| 1.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 1.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 1.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 1.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 1.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | SS | mlt gn GY | |
| 1.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | br GY | |
| 1.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt br GY | |
| 1.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 1.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 1.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | br GY | |
| 2.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 2.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | mlt gn GY | |
| 2.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | br GY | |
| 2.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt gn GY | |
| 2.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | lt br GY | |
| 2.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 2.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 2.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 2.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 2.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 3.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 4.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 5.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 6.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 7.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 8.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 9.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 10.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.5 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.6 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.7 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.8 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 11.9 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 12.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 12.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 12.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 12.3 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 12.4 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
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| 14.0 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 14.1 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | .. | |
| 14.2 | 1 | CLAYEY NANNOFOSSIL CHALK | | | | | | | | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|----------|--|
| 0.0 | 1 | | | | | | | | | gn GY | NANNOFOSSIL CLAYSTONE |
| 0.1 | | | | | | | | | | | Section 1, 0-35 cm: severe biscuiting with biscuits that are light greenish gray (5GY 7/1) and reddish brown (10YR 5/3) with some voids around the biscuits and a minor amount of slurry. |
| 0.2 | | | | | | | | | SS | | Section 1-Section 2, 42 cm: Alternating light greenish gray to greenish gray (5GY 8/1-7/1), heavily bioturbated NANNOFOSSIL CLAYSTONE. |
| 0.3 | | | | | | | | | IW | | SM, Section 2, 41 cm: burrow fill composed of CALCAREOUS FORAMINIFER CHALK |
| 0.4 | | | | | | | | | | | Section 2, 42 cm to the base of the core: Alternating light greenish gray to greenish gray (5GY 8/1-6/1) NANNOFOSSIL CLAYSTONE with chaotic bedding, soft sediment deformation, and microfaults. |
| 0.5 | | | | | | | | | SS | gn GY | |
| 0.6 | | | | | | | | | SS | lt gn GY | |
| 0.7 | | | | | | | | | | | |
| 0.8 | | | | | | | | | Pho | | Photographic close-up, Section 6, 105-130 cm. |
| 0.9 | | | | | | | | | Pho | | Photographic close-up, Section 7, 0-38 cm. |
| 1.0 | | | | | | | | | PAL | | |

SITE 1050 HOLE C CORE 20R

CORED 490.6-500.2 mbsf

1050C-20R

| METRES | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHTHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|---------------|---------|------------------|-----|---------|--------------------|---|
| 0 | 1 | | | | | | | | SS | pal BR lt br GY | NANNOFOSSIL CHALK WITH FORAMINIFERS, NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY RIP-UP CLASTS, NANNOFOSSIL CHALK WITH CARBONATE, PHOSPHATE/IRON HARDGROUNDS |
| 0.79 | | | | | | | | | SS | | Section 1, 0-79 cm: Light brownish gray (2Y 6/2) to pale brown (10YR 6/3) NANNOFOSSIL CHALK WITH FORAMINIFERS, with color changes gradual (due to heavy bioturbation) and occurring over 10-15 cm intervals. At 45-63 cm, burrow fill is reddish brown. |
| 0.79 | | | | | | | | | Pho | BK RD | Section 1, 79-80 cm: PHOSPHATE/IRON HARDGROUND, in situ. |
| 0.87 | | | | | | | | | SS | dk BR | Section 1, 80-87 cm: Red (10R 4/6) NANNOFOSSIL CHALK WITH FORAMINIFERS. |
| 1.00 | | | | | | | | | Pho | pal BR lt br GY | Section 1, 87-100 cm: 1x1 to 1x4 cm-size clasts of black PHOSPHATE/IRON HARDGROUND floating in red NANNOFOSSIL CHALK WITH FORAMINIFERS matrix, possibly transported, more likely bioturbated more or less in situ. Some pieces of hardground have 4 mm wide borings filled with matrix-type sediment. |
| 1.10 | | | | | | | | | Pho | | Section 1, 100 cm: mineralized HARDGROUND, with sub-mm black coating. |
| 1.38 | | | | | | | | | Pho | | Section 1, 104-150 cm to Section 2, 38 cm: NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY RIP-UP CLASTS, similar to sediment from top of Section 1 (0-79 cm), but with common rip-up clasts that are black, green, and various shades of brown. |
| 1.38 | | | | | | | | | Pho | | Section 2, 38-104 cm: NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY RIP-UP CLASTS, with black, sand-to-granule size clasts apparently worked downward by bioturbation from surfaces near 38 cm, 82 cm, and 93 cm. |
| 1.50 | | | | | | | | | SS | | Section 2, 137-150 cm: Laminated, salt-and-pepper, NANNOFOSSIL SILTSTONE WITH IRON OXIDE, with up to 10% altered volcanic glass and with black clay rip-ups clasts, sand size. Top 2 cm appears cross-laminated. |
| 1.76 | | | | | | | | | SS | | Section 3, 0-76 cm: NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY RIP-UP CLASTS, alternating among darker to lighter shades of brown, heavily bioturbated, with color alternations gradual. |
| 1.76 | | | | | | | | | Pho | | Section 3, 88-76 and 99-122 cm: High concentration of clay clasts, up to 2 cm across, heavily bioturbated. |
| 1.76 | | | | | | | | | SS | | Section 3, 119-122 cm: White NANNOFOSSIL CHALK, as thin bed and piped into underlying hardground. |
| 1.76 | | | | | | | | | SS | | Section 3, 122 cm: HARDGROUND |
| 1.76 | | | | | | | | | Pho | | Section 3, 122 cm to Section 4, 102 cm: Heavily bioturbated NANNOFOSSIL CHALK WITH CARBONATE, alternately reddish brown to faint green, mottled, with clay rip-up clasts. |
| 1.76 | | | | | | | | | SS | | Section 4, 102 cm: hardground |
| 1.76 | | | | | | | | | SS | | Section 4, 116 cm: 8 mm thick lamina of CLAYSTONE, slick feel, as if a bentonite. |
| 1.76 | | | | | | | | | SS | | Section 4, 102-150 cm: Purplish red to yellowish green NANNOFOSSIL CHALK WITH CARBONATE. Beds from 106-115, 115-133, and 133-150 cm are massive and a dark purplish red, intensely bioturbated, which change upward to lighter purplish red, and culminate in yellowish green, sub-mm laminae. |
| 1.76 | | | | | | | | | SS | | Section 5: Massive, heavily bioturbated, mottled, purplish red to pale green NANNOFOSSIL CHALK WITH CARBONATE. |
| 1.76 | | | | | | | | | PAL | | Section 4, 37 cm: 3 mm thick black, clay-rich lamina, slick. |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|--------------|-------|--|
| 0 | 1 | | | | | | | | Pho SS | | <p>NANNOFOSSIL CHALK WITH FORAMINIFERS, a HARDGROUND, and NANNOFOSSIL CHALK</p> <p>Section 1, 0-65 cm: Mottled reddish brown and pale green NANNOFOSSIL CHALK, WITH FORAMINIFERS highly bioturbated, to pale green with a few red splotches. Clay rip-up clasts concentrated around 41 and 53-55 cm. Interval 58-61 cm is faintly laminated LIMONITIC CLAYSTONE.</p> |
| 1 | 2 | | | | | | | | vpl OL SS | | <p>Section 1, 65-73 cm: DEBRIS FLOW of clay and chalk rip-ups clasts, silly putty pink, green, brownish red, black and white. The clasts were soft before deposition and are now compressed around each other. Large (to 2.5 cm), angular black clasts have green rip-up clasts within them.</p> |
| 2 | 3 | | | | | | | | IW vpl OL | | <p>Section 1, 73-77 cm: White NANNOFOSSIL CHALK WITH FORAMINIFERS with faint green burrows.</p> <p>Section 1, 77-150 cm: Intensely bioturbated pinkish gray chalk that reddens upward to dusky rose with dark green subhorizontal streaks (burrows?).</p> |
| 3 | 4 | | | | | | | | SS | | <p>Section 2, 13-15 cm: Dipping, purplish red laminae, folded, microfaulted.</p> |
| 4 | 5 | | | | | | | | | | <p>Section 2: NANNOFOSSIL CHALK WITH FORAMINIFERS in chaotic beds, obvious where formerly laminated, faint in massive, faintly bioturbated intervals. Burrows appear stretched, both vertically and horizontally.</p> |
| 5 | 6 | | | | | | | | | | <p>Chaotic bedding persists to the base of the core.</p> <p>Section 3, 12-59 cm, and Section 4, 0-30 cm: Dusky yellow (6Y 6/2) limonite bands cut across NANNOFOSSIL CHALK; probably diagenetic features.</p> |
| 6 | 7 | | | | | | | | | | <p>Section 3, 51-59 cm: Faint green laminae</p> <p>Section 3, 21-36 cm: Rare burrows outlined in dusky yellow, with green interiors.</p> |
| 7 | 8 | | | | | | | | | | <p>Section 4, 130-137 cm: Fracture with slickensides</p> |
| 8 | 9 | | | | | | | | | | <p>Section 5: Heavily bioturbated, burrows slightly stretched.</p> |
| 9 | 10 | | | | | | | | | | <p>Section 6: 15-22 and 43-45 cm microlaminated, dusky yellow and green. The intervening intervals are massive, slightly to heavily bioturbated.</p> |
| 10 | 11 | | | | | | | | | | <p>Section 7: Chaotically bedded to 30 cm. Sub-mm laminae at 30-34, 48-53, 64-68, 104-112 cm. The upper laminated intervals are green to dusky yellow; the lowest is very dark, almost black. Intervening sediment is massive, white, intensely bioturbated.</p> |
| 11 | 12 | | | | | | | | SS PAL | | <p>Core Catcher: 0-16 cm, white, massive chalk; 16-28 cm, black, laminated NANNOFOSSIL CARBONATE CHALK WITH FORAMINIFERS, IRON OXIDE, AND PYRITE.</p> |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-------------------|-----------------|----------|---|
| 22.1 22.2 | 1 2 | | | | | | | middle Cenomanian | SS SS PAL | lt gn GY | <p>NANNOFOSSIL CHALK WITH CLAY</p> <p>Greenish gray (10Y 6/1) to light greenish gray (10Y 8/1) with greenish gray burrows.</p> <p>35-50 cm- Abundant cross-cutting Zoophycos spreiten.</p> <p>Section 2: Eight 2-5 cm pieces; most match lithology in Section 1.</p> <p>Clast of greenish gray (5Y 4/1), laminated CLAYSTONE WITH NANNOFOSSIL AND MICRITE.</p> <p>Clast with yellowish (5Y 7/2) patches but otherwise as major lithology.</p> |

| METRES | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|-----------|--|
| 1 | | | | | | | | | | lt gn GY | <p>CARBONATE CHALK WITH CLAY, LIMESTONE WITH CLAY and CLAYEY NANNOFOSSIL CHALK WITH MICRITE</p> <p>Core contains interbedded slump deposits and pelagic sediment.</p> <p>Slump deposits are composed of LIMESTONE with both clay-rich and clay-poor layers. More foraminifers were apparent on cut surface than suggested by smear slide. Within slump, layers range from < 1 mm to > 25 cm and from dark greenish gray (10Y 3/1) to very light greenish gray (10Y 9/1). Small faults (both normal and reverse sense of displacement) and folds are common throughout. White, oval, 1-5 mm burrows occur rarely throughout. At least 3 and perhaps 5 or more slumps are represented.</p> <p>Pelagic sediment (CARBONATE CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK WITH MICRITE) is burrow mottled, light greenish gray (10Y8/1) to greenish gray (5GY 5/1) with gradual color variation. Darker intervals are relatively clay-rich, and lighter intervals are relatively carbonate-rich.</p> <p>15-20 cm: Matrix supported, white (0.5 cm max) and green (0.3 cm max) pebbles.</p> <p>72 cm: 1 cm clayey layer.</p> <p>72 cm: 1 cm clayey layer.</p> <p>Color changes are gradational.</p> |
| 2 | | | | | | | | | Pho | med gn GY | |
| 3 | | | | | | | | | Pho | | |
| 4 | | | | | | | | | SS | lt gn GY | |
| 5 | | | | | | | | | IW | mlt gn GY | |
| 6 | | | | | | | | | SS | med gn GY | |
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| 16 | | | | | | | | | PAL | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|-------|--|
| 0 | 1 | | | | | | HH | | | | <p>NANNOFOSSIL CARBONATE CHALK and CARBONATE CHALK WITH NANNOFOSSILS AND CLAY</p> <p>Irregular, faulted and slump-deformed alternation of light greenish gray (10GY 7/1) NANNOFOSSIL CARBONATE CHALK and dark greenish gray 10GY 5/1 CARBONATE CHALK WITH NANNOFOSSILS AND CLAY. Microfaults, many of which are subhorizontal or subparallel to bedding, are common throughout. They have mm-thick clay veneers on their planes. Larger, slickensided fault planes occur in the intervals where drilling disturbance is higher, but they are less abundant than the clay-sealed microfaults.</p> |
| 1 | 2 | | | | | HH | early Cenomanian | Ss | | | |
| 2 | 3 | | | | | HH | | Ss | | | |
| 3 | 4 | | | | | HH | | PAL | | | |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHNOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|--------------|---------|------------------|------------------|----------------|-------------------|--|
| 0 | 1 | | | | | | | | SS | lt gn GY gn GY | NANNOFOSSIL CLAYSTONE TO CLAYEY NANNOFOSSIL CHALK faults with slickensides: Section 1, 26-30 cm, 93-100 cm, 142-147 cm; Section 2, 0-14 cm, 98-100 cm. |
| 1 | 2 | | | | | | | | SS | lt gn GY gn GY | SD: Section 1, 55 cm: CLAYEY NANNOFOSSIL CARBONATE CHALK WITH FORAMINIFERS Section 1, 51-150 cm: minor soft sediment deformation. |
| 2 | 3 | | | | | | | early Cenomanian | SS SS IW | pal BR gn GY | Sediments from Section 1, 0 cm through Section 2, ~88 cm are varying shades of light greenish gray to dark greenish gray (10GY 8/1-5/1). CARBONATE CLAYSTONE WITH NANNOFOSSILS Pale brown (10YR 6/3) CLAYEY NANNOFOSSIL CHALK with whitish sediments in chaotic bedding with microfaults. |
| 3 | 4 | | | | | | | | Pho SS | rd BR lt gn GY | Section 2, 110-114 cm: homogeneous light gray (10YR 7/1) CARBONATE CHALK WITH FORAMINIFERS NANNOFOSSILS AND CLAY containing several small, lighter clasts with dissolved foraminifers. |
| 4 | 5 | | | | | | | | SS | gn GY gn GY | Section 2, 114-base: light greenish gray to greenish gray (10GY 8/1-6/1) with light gray (10YR 7/1) sediments with chaotic bedding. Section 3, 0-33 cm: light greenish gray to greenish gray (10GY 8/1-6/1) sediments with rare reddish brown (5YR 5/4) sediments. |
| 5 | 6 | | | | | | | | Pho SS | BK GY | Section 3, 33-53 cm: Reddish brown (5YR 5/4) sediments dominate, with rare light greenish gray to greenish gray (10GY 8/1-6/1) sediments, mostly as burrow infillings. Zoophycos burrows are scattered through Section 3. |
| 6 | 7 | | | | | | | | PAL | | Section 3, 53-86 cm: light greenish gray to greenish gray (10GY 8/1-6/1) sediment dominates. Section 3, 86-150 cm: reddish brown (5YR 5/4) CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS AND FE-OXIDE with small color alternations with light greenish gray to greenish gray (10GY 8/1-6/1) sediment. In Section 4, 0-62 cm, the greenish grays become more dominant in these color alternations. |
| | | | | | | | | | | | Section 4, 56 cm: dark brown (5YR 3/4) cherty infilled burrow. Section 4, 61-62 cm: reddish brown (5YR 5/4) patch; reddish brown Chondrites 57-67 cm. There are pinkish Chondrites and undifferentiated burrows 67-74 cm. |
| | | | | | | | | | | | Section 4, 62-93 cm: light greenish gray to greenish gray (10GY 8/1-6/1) NANNOFOSSIL CLAYSTONE. There is a layer of light olive brown (2.5Y 5/6) sediment at 81-82 cm, with several streaks of the same color through this interval. |
| | | | | | | | | | | | Section 4, 91-92 cm and 97-99 cm: mudclasts. |
| | | | | | | | | | | | Section 4, 104-108 cm: Black (5Y 2.5/1-2.5/2) homogeneous sediment. |
| | | | | | | | | | | | Soft sediment deformation is frequent throughout the entire core. |
| | | | | | | | | | | | Section 4, 108 cm - Core Catcher: laminated gray to black (5Y 6/1-2.5/2) NANNOFOSSIL CLAYSTONE TO CARBONATE CLAYSTONE WITH FORAMINIFERS AND NANNOFOSSILS with microfaults, soft sediment deformation, and occasional burrowing. |
| | | | | | | | | | | | Foraminifer molds are visible on the surface throughout the entire core. |
| | | | | | | | | | | | CC, 8-12 cm: homogeneous, with 2 burrows. |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
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| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|----------------|-------------|---------|------------------|-----|-----------|--------|---|
| 0 | | | | | | | | | | | |
| 1 | | | | | | | | | SS | mdk GY | CLAYSTONE WITH NANNOFOSSILS, FELDSPAR AND PYRITE and NANNOFOSSIL CLAYSTONE WITH SHELL DEBRIS AND CARBONATE GRAINS |
| 2 | | | | P _u | | | | | | dk GY | Laminated, medium to dark gray, faintly burrowed to non-burrowed CLAYSTONE WITH NANNOFOSSILS FELDSPAR AND PYRITE alternating with NANNOFOSSIL CLAYSTONE WITH SHELL DEBRIS AND CARBONATE GRAINS. Entire core is slumped and displays syn-sedimentary fractures. Bedding dips 30 degrees to vertical in Sections 4 to 6. Aragonite shell fragments scattered throughout the core and a few entire ammonite shells preserved. |
| 3 | | | | P | | | | | mdk GY | | |
| 4 | | | | | | | | | mdk ye GY | | |
| 5 | | | | | | | | | dk GY | | |
| 6 | | | | | | | | | dk GY | | |
| 7 | | | | | | | | | dk GY | | |
| 8 | | | | | | | | | mdk GY | | |
| 9 | | | | | | | | | dk GY | | |
| 10 | | | | | | | | | mdk GY | | |
| 11 | | | | | | | | | dk GY | | |
| 12 | | | | | | | | | SS | dk GY | |
| 13 | | | | | | | | | | dk GY | |
| 14 | | | | | | | | | | dk GY | |
| 15 | | | | | | | | | | mdk GY | Aragonite shell of entire ammonite, obliquely compressed. |
| 16 | | | | | | | | | PAL | dk GY | Bedding dips 50 degrees |

| METERS | CORE AND SECTION | LITHOLOGY | PHYSICAL STRUCTURES | ACCESSORIES | ICHOFOSSILS | FOSSILS | CORE DISTURBANCE | AGE | SAMPLES | COLOR | REMARKS |
|--------|------------------|-----------|---------------------|-------------|-------------|---------|------------------|-----|---------|----------|---|
| 0.0 | | | | | | | | | | | <p>NANNOFOSSIL CLAYSTONE WITH ORGANIC DEBRIS AND FELDSPAR and CLAYEY NANNOFOSSIL CHALK</p> <p>Alternation of dark greenish gray (5GY 4/1) to greenish black (5GY 2/1) NANNOFOSSIL CLAYSTONE WITH ORGANIC DEBRIS AND FELDSPAR and greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK. Small offset faults and angular slumping throughout.</p> |
| 0.1 | | | | | | | | | | dk gn GY | |
| 0.2 | | | | | | | | | | dk gn GY | |
| 0.3 | | | | Py | | | | | | dk gn GY | |
| 0.4 | | | | | | | | | | gn GY | |
| 0.5 | | | | | | | | | | dk gn GY | |
| 0.6 | | | | | | | | | | gn GY | |
| 0.7 | | | | Py | | | | | | dk gn GY | |
| 0.8 | | | | | | | | | | gn BK | |
| 0.9 | | | | | | | | | | gn GY | |
| 1.0 | | | | | | | | | | dk gn GY | |
| 1.1 | | | | | | | | | | dk gn GY | |