| | | | SIT | E 1014 | HC |)LE | A COR | E | 1H | | CORED 0.0 - 3.1 mbsf |
|--|------------------------------------|---|-------|------------------|---------|------------|-----------|---------|-------------|-----------|--|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | - Why man - | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2 | | 1 2 | Quaternary | | 0 >> | I S M | 5Y 3/2 | FORAMINIFER CLAY Major Lithology: This core consists of dark olive gray (5Y 3/2) FORAMINIFER CLAY. Amorphous organic matter composes about 3% of the sediment. General Description: The sediments are homogeneous. Shell fragments and foraminifers are abundantly disseminated throughout the core. |



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| | | | SIT | E 1014 | | LE | A COR | | | | CORED 3.1 - 12.6 mbsf |
|--|------------------------------------|---|-------|------------------|---------|------------|--------------|---------|--------|-----------|--|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | | 2 | | 2 3 | Quaternary | | W | S | 5Y 4/2 | SILTY CLAY WITH FORAMINIFERS and NANOFOSSIL CLAY MIXED SEDIMENT Major Lithologies: This core consists of gradual alternations between olive to olive gray (5Y 4/3 to 5Y 4/2) NANNOFOSSIL CLAY MIXED SEDIMENT and very dark gray (5Y 3/1 to 5Y 3/2) SILTY CLAY WITH FORAMINIFERS. Organic matter composes 3%-5% of the sediment. General Description: The sediment is homogeneously bioturbated. Shell fragments and foraminifers are disseminated throughout the core. |
| | | | 6 | | 4 | Quai | | | | 5Y 3/2 | |
| { | } | | 7 | | 5 | | _ | | S | 5Y 3/1 | |
| } | | | - | | | | | | | 5Y 3/2 | |
| } | } | | 8 | | 6 | | _ | | | 5Y 4/2 | |
| } | | } | 9 | | | | - | | | 5Y 3/2 | |
| 1 1.5 (| 0 10 -2 | 2 3 | 10. | | 7 CC | | | > | М | 5Y 4/2 | |

| | | | SIT | E 1014 | НО | LE | A COR | Ε : | ВН | | CORED 12.6 - 22.1 mbsf |
|--|------------------------------------|---|------------------|-----------------------------|---------|------------|------------|---------|--------|-------------|---|
| GRAPE density (g/cm ³) | Reflectance (%) (650-700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 5 | W. | | | 1 | | | | | 5Y 3/1 | NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and FORAMINIFER SILTY CLAY |
| | | | 2 | | 2 | | | | | 5Y 4/2 | Major Lithologies: This core is composed of alternations between olive gray (5Y 5/2) NANNOFOSSIL OOZE WITH FORAMINIFER AND CLAY and very dark gray to very dark grayish brown (5Y 3/1 to 2.5Y 3/2) FORAMINIFER SILTY CLAY. Contacts between |
| } | } | } | - | | | | | | | ΕV | lithologies are gradational. |
| } | } | | 3 | | | | | | S | 5Y 5/2 | General Description: The sediments are slightly bioturbated or homogeneous. |
| | } | | 4_ | ÷; ; ; ; ; ; | 3 | ry | - } | | I | 5Y 4/3 | |
| { | | } | 5_ | 7 | | Quaternary | , | | S | 2.5Y 3/2 | |
| } | } | | | | 4 | Qu | } | | | 5Y 4/3 | |
| | | ** | 6 - - 7 | | 5 | | 3 | | S | 5Y 4/2 | |
| | } | } | - | | | | } } | | | 5Y 5/2 | |
| | } | 3 | - 8 | | | | }} }} | | | 5Y 4/2 | |
| } | 3 | { | - | | 6 | | } | | | 5Y 5/2 | |
| } | | X | 9 | | 7 CC | | } | | М | 5Y 4/2 | |
| 1 1.5 | 0 10 5 | 10 1 | — 15 | · <u></u> | | _ | 1 | _ | IVI | | |

| | | | SIT | E 1014 | $\overline{}$ | LE | A COR | | | | CORED 22.1 - 31.6 mbsf |
|--|------------------------------------|---|-------|---------------------------------------|---------------|------------|------------------|---------|--------|------------------------------|--|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| 3 | 7 | } | | T T T T T T T T T T T T T T T T T T T | | | | | | 5Y 3/2 | FORAMINIFER NANNOFOSSIL OOZE, NANNOFOSSIL CLAY MIXED |
| } | | } | _ | | 1 | | } } } | | | 5Y 4/2 | SEDIMENT WITH FORAMINIFERS and FORAMINIFER CLAY |
| | | | 2 | | 2 | | 3 | | S | 5Y 3/2 | Major Lithologies: This core is composed of m-scale alternations of dark olive gray (5Y 3/2) FORAMINIFER CLAY, olive (5Y 4/3 to 5Y 4/4) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS, and grayish olive (10Y 4/2) |
| | | } | 3 | | | | _ | | D | 5Y 4/3 To 5Y 4/2 | FORAMINIFER NANNOFOSSIL OOZE. The boundaries are gradational. General Description: |
| | | } | 4 | T T | 3 | / | _ | | ı | 5Y 3/2 | This core is slightly to moderately bioturbated in its lower part whereas middle to upper parts are dominantly homogeneous. |
| } | } | } | 5 | | | Quaternary | 3 | | | 5Y 4/2 | |
| | | | 6 | | 4 | Qua | > | | D | 5Y 3/2 | |
| | | | 7 | | 5 | | } | | S | 5Y 4/3 To 5Y 4/4 | |
| | | } | 8 | | | | 33 33 33 | | S | 10Y 4/2 | |
| | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 0 | | 7 CC | | » » » » | | М | 5Y 4/2 | |

| | | | SIT | E 1014 | HC | LE | A COR | E : | | | CORED 31.6 - 41.1 mbsf |
|--|---------------------------------------|---|-------|--|---------|------------|--|---------|--------|------------------------|---|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | | 1 | 7 | 1 | | } | | S | 5Y 3/1 | CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY Major Lithologies: This core consists of alternations |
| | , , , , , , , , , , , , , , , , , , , | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2 | | 2 | | ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; | | S | 5Y 4/3 To 5Y | between very dark gray (5Y 3/1) CLAY WITH FORAMINIFERS and olive (5Y 5/3 to 5Y 4/3) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color and compositional changes are gradational. General Description: |
| 7 | | | 3 | | 3 | | <pre>33</pre> | | | 5/3 | The sediment is moderately bioturbated |
|) | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 5 | | 4 | Quaternary | *** | | I S | 5Y 4/3 | |
| { | } | } | 6 | | | | 33 | | | 5Y 5/3 | |
| | | { | 1 | | 5 | | 3 | | | 5Y 4/3 5Y 5/3 | |
| | } | } | 7 | | | | 33 | | | 5Y 4/3 | |
| | | | 8 - | , | 6 | | 3 | | | 5Y 3/1 | |
| M | | | 9 - | | 7 | | 33 33 3 | | | 5Y 4/3 | |
| 1 1.5 (| 0 10 0 |) 10 2 | 20 | | CC | | > | | М | | |

| | | | SIT | E 1014 | HC | LE | A COR | Ε (| | | CORED 41.1 - 50.6 mbsf |
|--|---|---|-------|------------------|---------|------------|-----------|---------|--------|-----------------|---|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | } | ~ | 1 | | 1 | | 3 | ^/ | | 5Y 4/3 | FORAMINIFER NANNOFOSSIL OOZE WITH CLAY and FORAMINIFER CLAY WITH SILT Major Lithologies: |
| | | { |] | | | | } | ! | | 5Y 5/3 | This core consists of alternations between olive to dark olive gray (5Y 4/3 to 5Y 3/2) FORAMINIFER CLAY WITH SILT and olive (5Y 5/3) |
| } | | | | | 2 | | | | | 5Y 4/3 | FORAMINIFER NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are gradational. Foraminifer content is about 25%. |
| | { | | 3 | | 3 | | 3 | | | 5Y 5/3 | Minor Lithologies: A small pod containing FORAMINIFER SAND occurs in Section 7, 7 cm. |
| { | | | 4 | | 4 | Quaternary | } | | | 5Y 4/2 | General Description: Note: 25 cm missing from top of Section 1 and 80 cm missing between Sections 3 and 4. |
| | | | 5 | | | Que | 3 | | S | 5Y 5/3 | Sections 3 and 4. |
| } | | { | | | 5 | | } | | | 5Y 4/2 5Y | |
| { | | <i>\</i> | 6 | | | | } | | S | 3/2 | |
| } | | } | 7 | | 6 | | 3 | | | 5Y 4/3 | |
| } | } | \{ | 8 | | 7 | | } | | | 5Y 3/2 5Y | |
| 1.5 | 1 <u> </u> | 10 2 | _ | ÷÷==== | CC | | | | М | 4/2 | |

| | | | SIT | E 1014 | | LE | A COR | | | | CORED 50.6 - 54.3 mbsf |
|--|------------------------------------|---|-------|------------------|-------------------|------------|-----------|---------|--------|--|--|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| 1 1.5 | 5 10 | 5 1 | 2 | | 1 2 3 CC | Quaternary | | M | S I | 5Y 4/2 2.5Y 4/2 5Y 4/3 5Y 5/2 | NANNOFOSSIL CLAY WITH SILT and FORAMINIFER NANNOFOSSIL OOZE WITH CLAY Major Lithologies: This core consists of olive gray to dark grayish brown (5Y 4/2 to 2.5Y 4/2) NANNOFOSSIL CLAY WITH SILT and olive gray (5Y 5/2) FORAMINIFER NANNOFOSSIL OOZE WITH CLAY. Foraminifers are abundant and disseminated throughout the core comprising about 10% in the clay-rich intervals and 25% in the nannofossil ooze. Minor Lithologies: Several small, isolated pods of FORAMINIFER OOZE occur in Section 1, 7-14 cm, 86 cm, and Section 2, 16 cm. General Description: The sediments show slight bioturbation, however disturbance related to XCB coring has masked most sedimentary features. |

| | | | SIT | E 1014 | | | A COR | Εį | 8X | | CORED 54.3 - 64.0 mbsf |
|--|------------------------------------|---|-------|------------------|---------|------------|--|----------|--------|-----------|---|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | | | X | 1 | | | ////// | | 5Y 3/2 | FORAMINIFER CLAY and CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS |
| | | | 2_ | | 2 | | | <u> </u> | S | 5Y 4/3 | Major Lithologies: This core consists of gradual alternations between dark olive gray (\$ 3/2) FORAMINIFER CLAY and olive to olive gray (5Y 5/3 to 5Y 4/2) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS. |
| | | | 3 | | 3 | | - 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | <u> </u> | | 5Y 4/2 | General Description: The sediments show slight bioturbation however, disturbance related to XCB coring has masked most sedimentary features. |
| | | } | 4_ | | | Quaternary | | | | 5Y 4/3 | |
| | | | 6 | | 5 | a | | <u> </u> | Ø | 5Y 3/2 | |
| | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 8 | | 6 | | | <u> </u> | | 5Y 5/2 | |
| 2 1.4 | 0 10 | 0 10 2 | 9_20 | | CC | | | | М | 5Y 4/3 | |

| | | | SIT | E 1014 | | LE | A COR | E : | 9X | | CORED 64.0 - 73.8 mbsf |
|--|------------------------------------|---|------------------|------------------|---------|------------|-----------|--------------------------|--------|-------------|--|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | { | 1 | | | 1 | | | WWWW | s | 5Y 4/1 | CLAY WITH FORAMINIFERS AND NANNOFOSSILS Major Lithology: |
| } | } | > | 1- | | | | | /w/w/ | | 5Y 4/2 | This core consists of (5Y 3/1) to (5Y 4/3) CLAY WITH FORAMINIFERS |
| | | | 2 | | 2 | | >> | WWWWWWWWWWWWWWWWWWWWWWWW | | 5Y 4/3 | AND NANNOFOSSILS. The abundance of foraminifers vary from 10% to 15%, nannofossils from 0% to 10%, and organic matter and sponge spicules from 0% to 2%. General Description: This core is mostly homogeneous within color bands, only rarely displaying distinct burrows. The core |
| | | | 4 | | 3 | λ | } | wwwwww | S | 2.5Y 4/2 | is strongly biscuited and cracked down the center. |
| } | | | 5 | | 4 | Quaternary | 3 | WWWWWWW | | 5Y 4/3 | |
| } | | | 7 - - 8 | T | 6 | | \$ | | | 5Y 3/2 | |
| 0 1 | 0 10 | 5 1 0 5 1 | 9 | | 7 CC | | | | М | 5Y 3/1 | |

| S 2.5Y 3/2 SEDIMENT WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH FORAMINIFERS AND NANNOFOSSILS AND NANNOFOSSILS This core consists of color and compositional alternations between very dark grayish brown (2.5Y 3/2) to olive gray (57 5/2) CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH FORAMINIFERS and composition of the spit surface for more subject to olive gray (57 5/2) CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH FORAMINIFERS and composition of the spit surface for more subject to olive gray (57 5/2) CLAY WITH FORAMINIFERS and composition of the spit surface for more subject to olive gray (57 5/2) CLAY WITH FORAMINIFERS and composition alternations between very dark grayish brown (2.5Y 3/2) to olive gray (57 5/2) CLAY WITH FORAMINIFERS and composition of the spit surface for more subject to olive gray (57 5/2) CLAY WITH FORAMINIFERS and composition of the spit surface for more subject to olive gray (57 5/2) CLAY WITH FORAMINIFERS and composition of the spit surface for more subject to olive gray (57 5/2) CLAY WITH FORAMINIFERS and carbonate for more supposition of the spit surface for more subject to olive gray (57 5/2) CLAY WITH FORAMINIFERS and carbonate for more supposition of the spit surface for more supposition f | | | | <u> </u> | E 1014 | 110 | | A COR | | | | CORED 73.8 - 83.5 mbsf |
|--|---|--------------|----------|----------|--------|---------|-----|---|---------|--------|--|---|
| S SEDIMENT WITH FORAMINIFERS AND NANNOFOSSILS Major Lithologies: This core consists of color and compositional alternations between very dark grayish brown (2.5Y 3/2) to olive gray (5Y 5/2) CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH FORAMINIFERS AND NANNOFOSSILS. Foraminifers compose 20% to 30% of all lithologies. Glass, sponge spicules, and organic matter make up a few % each of most lithologies. General Description: This core shows abundant foraminifers on the split surface. There is moderate bioturbation in the middle and lowest parts of the core, but near complete homogenization otherwise. The core is biscutied throughout and is bady fractured down the middle along its entire length. | density | (%) | suscept. | Meter | | Section | Age | Structure | Disturb | Sample | Color | Description |
| 1.2 1.4 0 10 0 10 20 10 20 M 5/2 | (g/cm³) What was a second of the second of | (e50-700 nm) | | 2 | Lith. | 1 2 3 5 | | - ************************************ | | s | 2.5Y 3/2 2.5Y 4/2 5Y 4/2 5Y 4/2 2.5Y 3/2 5Y 4/2 2.5Y 3/2 5Y 4/3 5Y 4/3 | CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH FORAMINIFERS AND NANNOFOSSILS Major Lithologies: This core consists of color and compositional alternations between very dark grayish brown (2.5Y 3/2) to olive gray (5Y 5/2) CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH FORAMINIFERS AND NANNOFOSSILS. Foraminifers compose 20% to 30% of all lithologies. Glass, sponge spicules, and organic matter make up a few % each of most lithologies. General Description: This core shows abundant foraminifers on the split surface. There is moderate bioturbation in the middle and lowest parts of the core, but near complete homogenization otherwise. The core is biscuited throughout and is badly fractured down the middle |

| | | | SIT | E 1014 | | LE | A COR | | 11X | | CORED 83.5 - 93.1 mbs |
|--|------------------------------------|---|----------------------------|------------------|---------|------------|----------------|--|--------|-------------|--|
| GRAPE density (g/cm ³) | Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | ww | | | | 1 | | | WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW | | 5Y 5/2 | CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT WITH NANNOS AND FORAMINIFERS Major Lithologies: This core consists of 50-200 cm alternations between very dark grayish |
| 5 | $ \xi $ | 5 | 2_ | | 2 | | | \ \ \ | S | 2.5Y 3/2 | brown (2.5Y 3/2) CLAY WITH FORAMINIFERS and olive gray (5Y 4/2 to 5Y 5/2) CARBONATE CLAY |
| | | } | 3_ | | _ | | | wwww | | 2.5Y 4/2 | MIXED SEDIMENT WITH NANNOFOSSILS AND FORAMINIFERS. All lithologies contain small amounts (1%-2%) of |
| \leq | | } | | | | | } | \ \ \ | | 5Y 4/2 | volcanic glass, sponge spicules, and organic matter. Color bands too small |
| } | \ \ \ \ | | 4_ | | 3 | | | \ \ \ | | 5Y 5/2 | to be shown in the Color column are depicted in the Structure column. |
| 7 | | | | | | Quaternary | } | wwww | | 2.5Y 3/2 | General Description: This core is moderately to severely disturbed by pervasive biscuiting and by a large crack running lengthwise |
| | No. | | 5 | | 4 | Que | | /wwwww | | 5Y 3/1 | down its center. |
| | | | 6 - - - 7 - | | 5 | | }} }} }} | /wwwwwwww | | 2.5Y 4/2 | |
| | | | 8 | | 6 | | | wwwww | S | 5Y 5/2 | |
| 2 1.4 | 5 10 | 0 10 2 | 9 | | 7 CC | | _ | \ \ \ \ \ | М | 5Y 4/1 | |

| | | SI | E 1014 | | LE | A COR | E | 12X | | CORED 93.1 - 102.8 mbsf |
|------------------------------------|---|-------|----------------------------|---------|------------|----------------|---|--------|-----------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| 3 | | | | 1 | | | ^ | S | 5)/ | CLAY CARBONATE MIXED SEDIMENT and CLAY WITH FORAMINIFERS AND SILT |
| | | 1_ | | | | 33 | \www\ | | 5Y 4/2 | Major Lithologies: This core consists of 50-200 cm scale color and compositional variation between olive gray (5Y 4/2) to olive |
| } | | 2_ | | 2 | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | 5Y 4/1 | (5Y 5/3) CLAY CARBONATE MIXED SEDIMENT and very dark gray (5Y 3/1) and CLAY WITH FORAMINIFERS AND SILT. The sediment contains |
| | | 3_ | 7 7 7 7 7 7 | | | | \www. | D | 5Y 3/1 | 20%-25% foraminifers and 0%-30% nannofossils. Most lithologies contain a few percent of sponge spicules, diatoms, volcanic glass, and organic |
| } | | - | | 3 | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | S | 5Y 5/2 | matter (up to 3%). Color transitions are gradational. General Description: |
| | | | | 4 | Quaternary | } | \ \ \ \ \ \ | | To 5Y 4/2 | The core is slightly to moderately bioturbated, but few distinct trace fossils are present. The core is greatly |
| | | 5 | | | Quat | | ~~~ | S | 5Y 3/1 | disturbed by coring, showing pervasive biscuiting, crumbling, and longitudinal cracking down the center. |
| 3 | \ | 6 | | 5 | | }} }} }} | wwww | D | 5Y | |
| } | } | 7 | | | | } | ~~~~ | | 5/3 | |
| | | 8 | | 6 | | } | MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM | | 5Y 4/2 | |
| | } | | | 7 | | }} }} | \ \ \ \ \ | | 5)/ | |
| > | } | 9_ | | СС | | } | \ \ \ \ \ \ | М | 5Y 5/2 | |
| 5 10 (| 0 10 2 | 20 | | | | | | | | |

| | | SIT | E 1014 | HC | LE | A COR | Ε | | | CORED 102.8 - 112.4 mbsf |
|------------------------------------|---|---------------------|------------------|-------------|---------------------------|-----------|---------|--------|---|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| (%) | | 3 3 4 5 7 7 8 8 8 8 | | 1 2 3 4 5 6 | Quaternary Quaternary Age | Structure | WWW. | Samp | 5Y 4/1 2.5Y N3/0 2.5Y 4/2 2.5Y N3/0 5Y 4/2 5Y 7/2 5Y 4/1 5Y 3/1 2.5Y 4/2 5Y 5/3 | CLAY WITH FORAMINIFERS, CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and CLAY CARBONATE MIXED SEDIMENT Major Lithologies: This core consists of irregular alternations between organic-rich (>3%) very dark gray (2.5Y N3/0 to 5Y 3/1) CLAY WITH FORAMINIFERS, dark gray (5Y 4/1) to olive gray (5Y 4/2) CLAY CARBONATE MIXED SEDIMENT, and light gray (5Y 7/2) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS. General Description: Three black, 3-4 mm thick laminations occur in the lower part of Section 3. The core shows moderate bioturbation in some sections, however, sedimentary structures are obscured by pervasive biscuiting and a continuous fracture down the center of the split half-core. |
| 0 10 (|) 0 10 2 | 20 | | СС | | | Ś | М | 10Y 4/1 | |

| | | SIT | E 1014 | | LE | A COR | | | | CORED 112.4 - 122.0 mbsf |
|------------------------------------|---|-------|------------------|---------|------------|-----------|---------|----------------|--------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | | | S | 2.5Y 4/2 | SILTY CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithologies: This core consists of alternations between organic-rich (~2%-4%), black |
| 5 | } | | | | | } } | | | 2.5Y 3/2 | (2.5Y 3/0) to very dark gray (5Y 3/1) SILTY CLAY and very dark grayish brown (2.5Y 3/2) to dark grayish brown |
| | } | 2 | | 2 | | } | | | 5Y 3/1 | (2.5Y 4/2) NANNOFOSSIL CLAY MIXED SEDIMENT. Transitions are gradational except where juxtaposed by drilling disruption. Foraminifers are |
| 1 | { | 3_ | | | | | | | 2.5Y 3/2 | almost entirely lacking from the darkest, most organic-rich intervals. |
| 5 | \(\) | | | 3 | > | 3 | | s s | 2.5Y 4/2 | General Description: This core is mostly homogenized or obscured by coring disturbance. Few |
| | | 5 | | 4 | Quaternary | | | 5 | 2.5Y 3/2 | burrows aré observable in Sections 2 and 3. |
| < | } | - | | | | | | | 5Y 3/1 | |
| | 3 | 6 | | | | | | | 2.5Y 3/2 | |
| | 3 | - | 7.74 | 5 | | | > | S _D | 2.5Y N3/0 | |
| | } | 7 | | | | | > | | 2.5Y 3/2 | |
| | , | 8 | | CC | | | | S M | 2.5Y N3/0 | |

| | | SIT | E 1014 | HC | LE | A COR | E | 15X | | CORED 122.0 - 131.6 mbsf |
|------------------------------------|---|-------|------------------|---------|------------|-----------|---------|--------|-------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| > | 2 | | | 1 | | | ₩ | s | 5Y 3/1 | CLAY WITH FORAMINIFERS AND SILT and CLAY NANNOFOSSIL MIXED SEDIMENT |
| | | 2 | | 2 | | 3 | | | 2.5Y 3/2 | Major Lithologies: This core is composed of dark gray (5Y 4/1) to very dark gray (5Y 3/1) CLAY WITH FORAMINIFERS AND SILT and olive gray (5Y 4/2) CLAY NANNOFOSSIL MIXED SEDIMENT showing m-scale alternation. The |
| | | 3 | | 3 | | 3 | M | | 5Y 3/2 | General Description: No obvious burrows are recognizable in the upper part of the core whereas the middle and lower parts are slightly to moderately bioturbated. |
| | | 4 | | 4 | Quaternary | — » » | | S | 5Y 4/2 | |
| $ \langle$ | 3 | | | 5 | | | * | | 5Y 3/1 | |
| | | 6 | | | | > | MMM - | | 5Y 4/2 | |
| | | 7 | | 6 | | } | | S | 5Y 3/2 | |
| | | 8 | | 7 | | } }} | M | S | 5Y 4/1 | |
| 5 10 | 0 10 2 | 9 | <u> </u> | CC | | | ≷ | М | 5Y 3/2 | |

| | | SIT | E 1014 | HC | LE | A COR | E | | | CORED 131.6 - 141.2 mbsf |
|------------------------------------|---|-------|---------------------------------------|---------|---------------|-----------|-----------|--------|---------------------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| Munu | | 2 | T | 2 | | | MM | S | 5Y 4/2 2.5Y 3/2 5Y 4/2 | CLAY WITH FORAMINIFERS Major Lithology: This core is composed of olive gray (5Y 4/2) to very dark olive gray (5Y 3/2) CLAY WITH FORAMINIFERS which shows faint color alternations. General Description: The upper and middle parts of the core are homogeneous whereas the lower part is slightly to moderately bioturbated. |
| | | 3 | | 3 | | | | | 5Y 3/2 | bioturbated. |
| ~ | | 5 | T T T T T T T T T T T T T T T T T T T | 4 | late Pliocene | 3 | M M | I | 2.5Y 3/2 | |
| | | 6 | 7 | 5 | | }} | | S | 5Y 4/2 | |
| | { | 7 | 7 | | | 3 | | | 5Y 3/1 | |
| | \ \ \ \ | 8 - | 7 | 6 | | } | · /// //- | | 5Y 3/2 | |
| | } | | 7 | 7 | | _ | | | 5Y 4/2 | |
| 5 10 0 | 0 10 2 | 0 | 7 | СС | | | ≷ | M | 3/1 | |

| | | SIT | E 1014 | НС | LE | A COR | | | | CORED 141.2 - 150.8 mbsf |
|------------------------------------|---|---------------------------------|--|---------|--------------|-----------|----------|--------|---------------------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1_ | | 1 | | | * | | 2.5Y 4/2 | NANNOFOSSIL OOZE WITH CLAY, CARBONATE CLAY MIXED SEDIMENT WITH DIATOMS and FORAMINIFER CLAY Major Lithologies: |
| | | 2 | 7 - 1 - 7 - 7 - 7 - 7 | 2 | | | | | 2.5Y 3/2 | This core is composed of pale olive (5Y 6/3) NANNOFOSSIL OOZE WITH CLAY, olive gray (5Y 5/2) CARBONATE CLAY MIXED SEDIMENT WITH DIATOMS, and very dark grayish brown (2.5Y 3/2) FORAMINIFER CLAY, which show m-scale alternations. The boundaries are gradational. |
| | | 4 | | 3 | ate Pliocene | }} }} | > | S | 5Y 5/2 | General Description: Part of the core is moderately bioturbated, otherwise no obvious burrows are visible. |
| | 3 | 5 | | 4 | el | | | | 5Y 4/2 | |
| | | 6 - - - 7 | | 5 | | | | S | 5Y 6/3 | |
| 0 10 | 0 5 1 | 8 - | | 6 CC | | }} }} | | S M | 5Y 5/2 2.5Y 3/2 5Y 3/1 | |

| brown (2.5Y 3/2) NANNÓFOSSÍL CLAY MIXED SEDIMENT and oliv dark olive gray (5Y 5/3 to 5Y 3/2) NANNOFOSSÍL OOZE WITH CLC Color and compositional changes gradation. S 3/2 | | | SITI | E 1014 | НС | LE | A COR | Е | 18X | | CORED 150.8 - 160.4 mbsf |
|--|-----------------------|--|-------|--------|---------|---------------|-----------|----------|--------|-------------|--|
| SEDIMENT and NANNOFOSSIL OOZE WITH CLAY Major Lithologies: This core consists of very dark grabrown (2.5Y 3/2) NANNOFOSSIL CLAY MIXED SEDIMENT and olive dark olive gray (5Y 5/3 to 5Y 3/2) NANNOFOSSIL OOZE WITH CLAY NANNOFOSSIL OOZE WITH CLAY S 3/2 S 3/2 S 6/3/2 S 6/3/2 S 6/3/2 S 6/3/2 S 8/3/2 S 8/3 | (%) | suscept. | Meter | | Section | Age | Structure | Disturb | Sample | Color | Description |
| This core consists of very dark graph of the core consists of very dark graph of the core consists of very dark graph of the core. This core consists of very dark graph of the core consists of very dark graph of very dark graph of the core consists of very dark graph of the core consists of very dark graph of | | | - | | 1 | | | | | 5Y 3/2 | SEDIMENT and NANNOFOSSIL |
| S 2.5Y 3/2 General Description: The sediment is mostly homogene and shows only slight bioturbation the base of the core. Note: Sediment from Section 1 was | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2_ | | 2 | | | | | | This core consists of very dark grayish brown (2.5Y 3/2) NANNOFOSSIL CLAY MIXED SEDIMENT and olive to dark olive gray (5Y 5/3 to 5Y 3/2) NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are |
| \ | | | 3 | | 3 | | | // ///// | S | 2.5Y 3/2 | General Description: The sediment is mostly homogeneous and shows only slight bioturbation near the base of the core. |
| 5 3/2 | | W. W. W. | 5 | | 4 | late Pliocene | | | | 5Y 3/2 | disturbed during coring and has no |
| 5Y 4/2 | \ \ \ \ \ | | 6 | | 5 | | | | | | |
| 5 7 3 4 4/3 s 5Y 4/3 | | | 7 | | 6 | | | | S | | |
| 8 3 3 4 4 5 5 Y 4/2 | | \ | 8 | | 7 | | } | > | | | |
| 0 10 0 5 10 5 4/3 | 1 | | 9 | | СС | | 3 | > | | | |

| | | SI | TE 1014 | | LE | A COR | E | 19X | | CORED 160.4 - 170.0 mbsf |
|------------------------------------|----------|-------|------------------|---------|--------------|-------------|------------------|--------|-----------|---|
| Reflectance (%) (650–700 nm) | suscept. | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | M | | 77 | | | | ^^^^ | | 5Y 4/2 | SILTY CLAY and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY |
| | | _ | | 1 | | } | | | 5Y 4/3 | Major Lithologies: This core consists of olive to olive gray (5Y 4/3 to 5Y 4/2) SILTY CLAY and olive (5Y 5/3 to 5Y 4/3) NANNOFOSSIL OOZE WITH |
| | 2 | 2_ | TIC | 2 | | | ^^ | | 5Y 4/2 | FORAMINIFERS AND CLAY containing about 10% foraminifers and 10% clay. Color and compositional |
| | | 3_ | | | | • } } | \\\\\ | | | changes are gradational. Minor Lithology: Section 2, 115 cm, contains a small (<1 cm) pod of ARAGONITE. |
| | | 4_ | | 3 | | 3 | \^^^\ | s | 5Y 5/3 | General Description: The sediments show slight bioturbation, but extensive fracturing makes observation of surface features |
| | Ę | 5 | | _ | ate Pliocene | }} | \ \ \ \ | ı | | makes observation of surface features difficult. |
| | | - | | 4 | late | | \\\\\. | | 5Y 4/3 | |
| } | } | 6 | | | | | ^^^^ | S | 5Y 4/2 | |
| | } } | 7 | | 5 | | | ^^ | | .,,, | |
| | | 8 | | 6 | | | \^^\^\\\ | | 5Y 4/3 | |
| } | } | 9 | | 7 CC | | | ^^^^ | | 5Y 4/2 | |
| 0 10 | 0 5 1 | 0 | | | _ | | | M | | <u> </u> |

| | ITE 1014 I | HOLE | A COR | E 20X | | CORED 170.0 - 179.6 mbsf |
|--|------------------|--------------|---|-------------------|---|---|
| Reflectance (%) (650–700 nm) (10 ⁻⁶ SI) | Graphic Lith. | Section | Structure | Disturb Sample | Color | Description |
| 1 1 2 2 3 3 4 4 5 5 10 0 5 10 0 5 10 | | 1 2 3 4 5 CC | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 6 7 8 7 8 8 7 8 9 8 9 8 8 9 9 8 9 9 8 9 9 8 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 8 9 9 9 8 9 | | 5Y 4/2 To 5Y 4/3 5Y 6/4 5Y 5/4 | NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and SILTY CLAY WITH CARBONATE Major Lithologies: This core consists of gradational changes between olive to olive gray (5Y 4/3 to 5Y 4/2) SILTY CLAY WITH CARBONATE and pale olive to olive (5Y 6/4 to 5Y 5/4) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY containing about 10% foraminifers. General Description: The sediments show slight bioturbation but extensive fracturing makes observation of surface features difficult. Note: Sections 1 and 5 were disturbed during coring operations and their stratigraphic orientation is unknown. |

| | | SIT | ΓE 1014 | | LE | A COR | | | | CORED 179.6 - 189.2 mbsf |
|------------------------------------|---|-------|------------------|---------|---------------|---------------------|---------|----------------|-----------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| \ \rangle | } | | | 1 | | | 000 | | 5Y 4/2 | FORAMINIFER CLAY and FORAMINIFER NANNOFOSSIL OOZE WITH CLAY |
| | | 1 | | 2 | | | | s _D | 5Y 5/3 | Major Lithologies: This core consists of gradational changes between dark olive gray to dark gray (5Y 3/2 to 5Y 4/1) FORAMINIFER CLAY and olive to |
| | } | 2 | | | | | | | | olive gray (5Y 5/3 to 5Y 4/2) FORAMINIFER NANNOFOSSIL OOZE WITH CLAY. |
| | } | 3 | | 3 | ine | } | | | 5Y 4/2 | General Description: The sediments show slight bioturbation but extensive disturbance makes observation of surface features difficult. |
| } | | 4 | | 4 | late Pliocene | | | | 7/2 | leatures unificult. |
| } | } | 5_ | | | | | | | 5Y | |
| | { | 6 | | 5 | | | | | 4/1 5Y | |
| | | | | | | | | | 4/2 | |
| | \ \ \> | 7 | | 6 | | } **** }} | | s _D | 5Y 3/2 | |
| 0 10 - | <u> </u> -20 0 2 | :0 | -T- | CC | | | ' | M | | |

| | | SIT | E 1014 | HC |)LE | A COR | E : | 22X | | CORED 189.2 - 198.8 mbsf |
|------------------------------------|---|--------|------------------|----------|---------------|-----------|---------|--------|-----------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | | | 1 | | | | | 5Y 4/2 | NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and FORAMINIFER CLAY WITH DIATOMS Major Lithologies: |
| | | 2 | | 2 | | | | S | 5Y 3/2 | This core is composed of olive (5Y 4/3) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and dark olive gray (5Y 3/2) FORAMINIFER CLAY WITH DIATOMS. The boundaries are gradational. |
| | | 3 | | 3 | late Pliocene | | ^ | | 5Y 4/2 | General Description: The core is biscuited and moderately to heavily disturbed. Slight bioturbation is observable only in the lower part of the core. |
| | | 5 6 | | 5 | | 3 3 | | S | 5Y 4/3 | |
| 5 10 - | 10 0 1 | 0 | - 46 TI-15.5 | <u> </u> | | | | IVI | | |

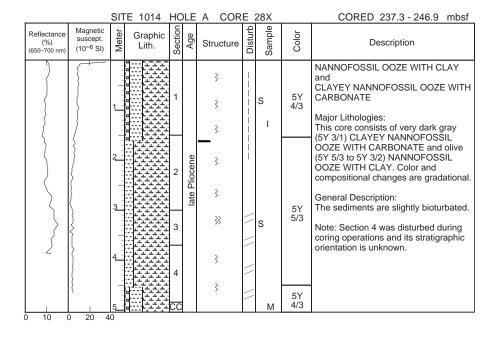
| | | SIT | E 1014 | | LE | A COR | | | | CORED 198.8 - 208.4 mbsf |
|------------------------------------|---|-------|------------------|---------|----------|-----------|------------|--------|-----------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 2 | | | *** | | 5Y 4/2 | FORAMINIFER CLAY MIXED SEDIMENT WITH NANNOFOSSILS and CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS Major Lithologies: This core is composed of olive (5Y 4/3) CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and dark olive gray (5Y 3/2) FORAMINIFER CLAY MIXED SEDIMENT WITH NANNOFOSSILS. |
| | | 3 | | 3 | Pliocene | - | | S | 5Y 3/2 | The boundaries are gradational. General Description: The core is moderately to highly |
| | } | - | | - | ate Plic | 5 | i | | 4/2 | disturbed and biscuited. Bioturbation is observable only in the lower part of |
| | | 5 | | 5 | la | | · // | S | 5Y 4/3 | Section 3. Note: Sections 1 was disturbed during coring operations and its stratigraphic orientation is unknown. |
| 0 10 - | 10 0 1 | 6 | | 6 CC | | | · | М | 5Y 4/2 | |

| CARBONATE CLAY MIXED SEDIMENT and NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS Major Lithologies: This core consists of olive to olive gray (5Y 4/3 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENT and olive (6Y 4/3) NANNOFOSIL OOZE WITH CLAY AND FORAMINIFERS. Color changes are gradual. General Description: The sediments show slight bioturbation but extensive biscuiting makes observation of surface features difficult. Note: Sections 1 was disturbed during coring operations and its stratigraphy is unknown. Gas voids occur in Section 6, 50-70 cm, and 142-150 cm. | | SIT | ΓE 1014 | HC | LE | A COR | E : | | | CORED 208.4 - 218.0 mbsf |
|--|-----------|---------------------|------------------|---------|--------------|-----------|---------|--------|-----------|---|
| SEDIMENT and NANNOFOSIL OOZE WITH CLAY AND FORAMINIFERS SY Major Lithologies: This core consists of olive to olive gray (5Y 4/3 to 5Y 4/2) CARBONATE CLAY AND FORAMINIFERS. Color changes are gradual. General Description: The sediments show slight bioturbation but extensive biscuiting makes observation of surface features difficult. Note: Sections 1 was disturbed during coring operations and its stratigraphy is unknown. Gas voids occur in Section 6, 50-70 cm, and 142-150 cm. | (%) susce | etic ept. SI) | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| Sy Alac Electron State of the consists of olive to olive gray (5Y 4/3 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENT and olive (5Y 4/3) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS. Color changes are gradual. General Description: The sediments show slight bioturbation but extensive biscuiting makes observation of surface features difficult. Note: Sections 1 was disturbed during coring operations and its stratigraphy is unknown. Gas voids occur in Section 6, 50-70 cm, and 142-150 cm. | | | 0 0 (| 1 | | | | | | SEDIMENT and NANNOFOSSIL OOZE WITH CLAY AND |
| NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS. Color changes are gradual. General Description: The sediments show slight bioturbation but extensive biscuiting makes observation of surface features difficult. Note: Sections 1 was disturbed during coring operations and its stratigraphy is unknown. Gas voids occur in Section 6, 50-70 cm, and 142-150 cm. | | 1 | | 2 | | | | | | This core consists of olive to olive gray (5Y 4/3 to 5Y 4/2) CARBONATE CLAY |
| The sediments show slight bioturbation but extensive biscuiting makes observation of surface features difficult. Note: Sections 1 was disturbed during coring operations and its stratigraphy is unknown. Gas voids occur in Section 6, 50-70 cm, and 142-150 cm. | | 2 | | 3 | | | | | | NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS. Color changes |
| Note: Sections 1 was disturbed during coring operations and its stratigraphy is unknown. Gas voids occur in Section 6, 50-70 cm, and 142-150 cm. | | 3 | | | | | | | 5Y 4/3 | The sediments show slight bioturbation |
| 5 | | 4 | | 4 | ate Pliocene | | ^^ ^^ | S | 170 | coring operations and its stratigraphy is unknown. Gas voids occur in Section |
| 7 | | 5 <u> </u> | | 5 | 21 | | | | | |
| 7 Void Void S S S S S M 3/2 | | 6 | | | | } | /\/, | | 5V | |
| 8 | | 7 <u>-</u> | Void Void | 0 | | } | WW | | | |
| | | 8 | | | | | /\ | S | - FV | |
| | 5 10 0 10 |) 20 | | CC | | | > | M | | |

| | | SI | ΓΕ 1014 | | | A COR | | | | CORED 218.0 - 223.5 mbsf |
|------------------------------------|--|-------|------------------|---------|---------------|-----------|---------|--------|-------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | W. | | | 5 | | 3 | | | 2.5Y 3/2 | NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and CARBONATE CLAY WITH |
| | The state of the s | 1_ | | 1 | | 33 | / | | 5Y 4/4 | DIATOMS Major Lithologies: This core consists of gradational |
| | | 2 | | 2 | | 33 | /// | s c | 2.5Y 3/2 | changes between olive (5Y 4/4) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and very dark grayish brown (2.5Y 3/2) CARBONATE CLAY WITH DIATOMS |
| | \right\{\right\} | 3_ | | | late Pliocene | 33 33 | | | | containing about 10% diatoms. General Description: The sediment is moderately |
| | \ \{\} | 4_ | | 3 | la | 33 33 | | S [| 5Y | bioturbated. Note: Section 1 was disturbed during coring operations and its stratigraphic |
| } | A | | | _ | - | 33 | | I | 4/4 | orientation is unknown. |
| | 3 | 5 | | 4 | | 33 33 | | | | |
| 0 10 | 0 5 1 | 0 | 4.4. | CC | | | Ľ | М | <u> </u> | |

| | | SIT | E 1014 | HC | LE | A COR | E : | | | CORED 223.5 - 227.7 mbsf |
|---|---|-------|------------------|---------|---------------|----------------|----------|--------|------------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | } } } | * | D | 2.5Y N3/0 5Y 5/3 | NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithologies: This core consists of gradational changes between pale olive to olive (5Y 6/3 to 5Y 5/3) NANNOFOSSIL |
| | | 3 | | 2 | late Pliocene | 33 33 34 | | S | 5Y 4/2 To 5Y 3/2 | OOZE WITH CLAY and olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) NANNOFOSSIL CLAY MIXED SEDIMENT. Minor Lithology: Section 1, 0-38 cm, contains very dark gray (2.5Y N3/0) DOLOMITE. General Description: |
| $\left \cdot \right $ | } | 4 | | 3 | | 3 | | | 5Y 5/3 | The sediments are moderately bioturbated. |
| $\left \begin{array}{c} \\ \\ \end{array} \right $ | } | 5 | | | | } | | S | 5Y 6/3 | |
| 0 20 - | 20 0 2 | 6 | | 4 CC | | } } } | | М | 5Y 5/3 | |

| | | SIT | E 1014 | HC | LE | A COR | E | 27X | | CORED 227.7 - 237.3 mbsf |
|------------------------------------|---|-------|------------------|---------|--------------|-----------|---------|--------|------------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| \ | _~~^ | | | 1 | | | www. | | 5Y 3/2 | CLAY CARBONATE MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE |
| | \ | 2 | | 2 | | | | | 5Y 4/3 To 5Y 3/2 | Major Lithologies: This core consists of very dark gray to dark olive gray (5Y 3/1 to 5Y 3/2) CLAY CARBONATE MIXED SEDIMENT and olive gray (5Y 4/2) CLAYEY NANNOFOSSIL OOZE. Color and compositional changes are |
| \ | { | - | | | | | 1 | s | 5Y 3/1 | gradational. General Description: |
| 1 | } | 3_ | | 3 | | | | | | The sediments are homogeneous. |
| | \ | 4 | | 4 | ate Pliocene | | 000 | | 5Y 3/2 | Note: Section 1 was disturbed during coring operations and its stratigraphy is unknown. Gas expansion voids occur in Section 5, 130-142 cm, and Section 6, 56-58 cm. |
| | | 5 | | _ | late | | | S | | |
| | | 6 | | 5 | | | //// | | 5Y 4/2 | |
| | M | 7 | | 6 | | | | | | |
| | | 8 | | 7 CC | | | | M | 5Y 3/2 | |



| | | - 1 1 | | A COR | _ , | 23/ | | CORED 246.9 - 250.1 mbsf |
|--|---------------|------------|---------------|-----------|---------|--------|------------------------------|--|
| Reflectance (%) (650–700 nm) Magnetic suscept. (10 ⁻⁶ SI) | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| 15 20 0 2.5 5 | | 1 2 2 3 60 | late Pliocene | **** | | S | 5Y 5/3 To 5Y 6/3 | NANNOFOSSIL OOZE WITH CLAY Major Lithology: This core consists of slightly bioturbated, olive to pale olive (5Y 5/3 to 5Y 6/3) NANNOFOSSIL OOZE WITH CLAY. Foraminifers, sponge spicules, and diatoms are also present in small amounts (<5%). General Description: The core is mostly homogenized with few distinct burrows. It is pervasively biscuited by XCB coring. |

| | | SIT | E 1014 | | LE | A COR | | | | CORED 250.1 - 256.6 mbsf |
|------------------------------------|---|-------|--|---------|---------------|-----------|---------------------------------------|--------|-------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | W-> | | | 1 | | | | D | 10Y 3/1 | NANNOFOSSIL CLAY MIXED SEDIMENT and CLAY WITH FORAMINIFERS |
| | Andry | 2_ | | 2 | | *** | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | S | 5Y 5/3 | Major Lithologies: This core consists chiefly of olive (5Y 5/3) NANNOFOSSIL CLAY MIXED SEDIMENT and dark grayish brown (2.5Y 4/2) to light olive brown (2.5Y 5/3) CLAY WITH FORAMINIFERS. Color transitions are extremely gradual. |
| | | 3_ | | _ | late Pliocene | - | | | 5Y 5/2 2.5Y | Minor Lithology: A 90 cm thick bed of very dark olive gray (10Y 3/1) DOLOSTONE occurs at the top of the core in Section 1. Foraminifers are well preserved and |
| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 5 | ************************************** | 4 | | | | S | 2.5Y 5/2 | exposed on the cut surface and indistinct laminations are present. The contact with the underlying soft sediment is abrupt and probably represents destruction of some material by coring. General Description: This core is mostly homogeneous with rare distinct burrows. Two thin |
| 0 20 | 0 5 1 | 6 | | 5 CC | | } | \\ \\ \\ \ | М | 2.5Y 4/2 | laminations occur in Section 3 and 4. |

| | | SIT | TE 1014 | | <u>LE</u> | A COR | | | | CORED 256.6 - 266.2 mbsf |
|------------------------------------|---|---|------------------|---------|---------------|-------------|---------|--------|-----------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| } | | 1 | | 2 | | | | S | 5Y 4/2 | CARBONATE CLAY MIXED SEDIMENT and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY Major Lithologies: This core consists of one continuous color gradation from olive gray (5Y 4/2) to light olive gray (5Y 6/2) |
| | | 3 | | 3 | late Pliocene | | | I | 5Y 4/3 | CARBONATE CLAY MIXED SEDIMENT and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color boundaries in the progression are arbitrarily placed as there is no distinct banding or bedding present. General Description: The core is mostly homogenized with a few distinct burrows present in the lowest 2 m. Section 1 was disturbed and placed in the core liner without known stratigraphic orientation. |
| | | 5 - - - - - - - - - - - - - - - - - - | | 5 | | > | | S | 5Y 5/3 | |
| 10 20 - | -10 0 1 | 10 | | 7 CC | | } | | S M | 5Y 6/2 | |

| | | SIT | TE 1014 | | LE | A COR | | 32X | | CORED 266.2 - 275.8 mbsf |
|------------------------------------|---|------------------|---|---------|--------------|--|-------------|--------|--------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | ** | | 7 4 7 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 | 1 | | . | ~~~~ | | 5Y 4/2 | CLAY WITH NANNOFOSSILS AND FORAMINIFERS and CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS |
| | | 2 | | 2 | ate Pliocene | ** ** ** ** ** ** ** ** ** ** ** ** ** | | S | 2.5Y 4/2 | Major Lithologies: This core consists of greater than meter-scale, gradational and subtle alternations between dark grayish brown (2.5Y 4/2) to olive (5Y 4/3) CLAY WITH NANNOFOSSILS AND FORAMINIFERS and CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS. Diatoms, sponge spicules, and volcanic glass each make up a few percent of these lithologies. |
| | | 4 - - 5 | Void | 4 | lat | » } }} | wwww - | S | 2.5Y 4/2 5Y 4/2 | General Description: Bioturbation is slight to moderate where preserved. Core disturbance by biscuiting is extensive and pervasive. The original sedimentary fabric is lost. |
| 10 15 | 0 10 2 | 6 | | 5 CC | | }} }} | // // // // | М | 2.5Y 4/2 5Y 4/3 | |

| | SI | ΓΕ 1014 | HC |)LE | A CC | DRI | Ε : | 33X | | CORED 275.8 - 285.5 mbsf |
|---------------------------------------|-------|------------------|---------|----------|----------------|-----|---------|--------|-------------|--|
| Reflectance (%) (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structu | re | Disturb | Sample | Color | Description |
| | | | 1 | | | | W | | 5Y 5/2 | CLAY WITH FORAMINIFERS AND NANNOFOSSILS Major Lithology: |
| | 2 | | | | }} }} | A• | WWW | S | 5Y 4/2 | This core consists of olive gray (5Y 5/2 to very dark gray (5Y 3/1) CLAY WITH FORAMINIFERS AND NANNOFOSSILS with minor compositional and color variation. Clay content varies from 45% to 65%, |
| | | | 2 | | }} }} }} | | wwwwww | S | 5Y 5/2 | foraminifers from 15% to 25%, and nannofossils remain approximately at 20%. Volcanic glass composes up to |
| | 3_ | | | Pliocene | | | 1 | | 5Y 4/2 | 12% of some intervals. Color transitions are mostly gradational. |
| | 4_ | | 3 | late PI | } | | WWW | | 5Y 5/3 | Minor Lithology: Massive to thinly laminated, gray (5Y 5/1) VITRIC ASH occurs at the bottom of Section 4 and the top of Section 5. |
| | | | 4 | | 3 | | | | 2.5Y 5/2 | General Description: Small amounts of medium-grained dauconite are disseminated |
| | 5 | # | | | _ | A | | S | 5Y 5/1 | throughout the core and not concentrated in any particular horizons. The core is greatly disturbed |
| | 6_ | | 5 | | | | | S | 5Y 3/1 | by pervasive biscuiting and rotation. |
| 0 15 0 10 | 20 | + | cc | ; | | | | М | 5Y 4/2 | |

| | | SI | ΓΕ 1014 | | LE | A COR | | | | CORED 285.5 - 295.1 mbsf |
|------------------------------------|---|-------|------------------|---------|---------------|-----------|----------|--------|------------------------------|--|
| Reflectance (%) (650-700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | | | S | 2.5Y 4/2 | CLAY WITH NANNOFOSSILS AND FORAMINIFERS and CLAY NANNOFOSSIL MIXED SEDIMENT WITH GLASS AND FORAMINIFERS Major Lithologies: This core consists of gradations from dark to very dark grayish brown (2.5Y 4/2 to 2.5Y 3/2) CLAY WITH NANNOFOSSILS AND |
| | | 3_ | | 2 | | | | | 2.5Y 3/2 | FORAMINIFERS to dark gray (5Y 4/1) CLAY NANNOFOSSIL MIXED SEDIMENT WITH GLASS AND FORAMINIFERS. Alternations in color results from >meter-scale |
| | | 4_ | | 3 | ane | | MM | S | 2.5Y 4/2 | compositional variation in clay (25% to 70%), foraminifers (10% to 20%), nannofossils (0% to 40%), and volcanic glass (0% to 20%). All discernible contacts are gradational. The sediment is lithified and firm, except where pulverized between and |
| | \ \ \ \ \ | 5 | Void | 4 | late Pliocene | } } | M | | 2.5Y 4/2 | around drilling biscuits. General Description: This core is extremely disturbed by biscuiting rendering primary sedimentary features unrecognizable. Distinct burrows are rare. There is a |
| | } | 6 | | | | | wwww | | 2.5Y 3/2 | persistent trace of disseminated medium-size glauconite grains in the clay and mixed sediment. |
| | } | 7 | | 5 | | } | wwwwwww. | | 2.5Y 4/2 | |
| | | 8 | | 6 | | 3 3 3 | M M M | S | 5Y 4/1 To 5Y 5/2 | |
| 0 10 0 |) 10 2 | | | CC | | | > | M | | |

| | | SI | ΓΕ 1014 | | LE | A COR | | | | CORED 295.1 - 304.8 mbsf |
|------------------------------------|---|-------------|------------------|-------------|--------------|--|--|--------|---|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| (%) | suscept. | 2 3 4 | | 1 2 Section | Pliocene Age | | \(\sum_\sum_\sum_\sum_\sum_\sum_\sum_\sum_ | Sample | 2.5Y 4/2 2.5Y 4/1 5Y 4/2 2.5Y 3/2 5Y 4/2 | Description CLAY WITH FORAMINIFERS and CLAY WITH NANNOFOSSILS Major Lithologies: This core consists of a subtle alternation between very dark grayish brown (2.5Y 3/2) CLAY WITH FORAMINIFERS and olive gray (5Y 5/2) CLAY WITH NANNOFOSSILS. Diatoms, sponge spicules, and organic matter are persistent minor components. Color transitions are apparently gradational. General Description: The core is pervasively fractured and biscuited. Sedimentary structures are cut and disrupted. Burrows are only detectable in the lower half of the core. Trace amounts of glauconite (mediumgrained) are disseminated throughout the core. |
| 0 10 - | 10 0 1 | 6 | | 5 6 7 | | ************************************** | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | S | 5Y 5/2 | |

| | | SI | ΓΕ 1014 | | LE | A COR | Ε | 36X | | CORED 304.8 - 314.4 mbsf |
|------------------------------------|---|-------|------------------|---------|----------|-------------|---|----------------|-------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | \ | | | 1 | | | ^^^^ | | 2.5Y 4/3 | CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and CLAY WITH FORAMINIFERS |
| | | 2 | | 3 | | } } } | ^^^^^^^ | S | 2.5Y 5/2 | Major Lithologies: This core consists of thick alternations between grayish brown (2.5Y 5/2) to olive gray (5Y 5/2) CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and very dark grayish brown (2.5Y 3/2) CLAY WITH FORAMINFERS. Color transitions are obscured by pervasive biscuiting. Trace amounts of glauconite grains are disseminated within both major lithologies. |
| } | } | - | | | | | ^^^ | | 2.5Y 4/2 | General Description: The core is highly fractured and |
| | | 5 | | 5 | Pliocene | @ | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | S | 2.5Y 3/2 | pulverized by XCB coring. Sedimentary features are mostly obscured, but some distinct trace fossils are locally preserved. Zoophycos and Chondrites are present in the Core Catcher. |
| | | 7 | | 6 | | } } | ^^^^^^^^^ | | 5Y 5/3 | |
| > | ~ | 9 | | 7 | | @ | ^^^^ | | 5Y 5/2 | |
| 0 20 - | 10 0 1 | 0 | | СС | | }} 6 >>> | > | s _M | 2.5Y 4/2 | |

| | | SIT | E 1014 | НС | LE | A COR | E : | | | CORED 314.4 - 324.1 mbsf |
|------------------------------------|---|------------------|------------------|---------|----------|---------------|-----------|--------|--------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | } | 1 | | 1 | | | | | 2.5Y 4/2 5Y 5/2 | NANNOFOSSIL CLAY MIXED SEDIMENTS WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS Major Lithologies: |
| | | 2 | | 3 | | | + | S | 5Y 6/2 | The core consists of irregular alternations between dark gray (5Y 4/1) to olive (5Y 5/3) NANNOFOSSIL CLAY MIXED SEDIMENTS WITH FORAMINIFERS and light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS. Trace amounts of glauconite grains are disseminated throughout. The nature |
| | | - - - 4 | | | | _ | \dashv | s s | 5Y 4/1 | of contacts are obscured by pervasive biscuiting. Minor Lithology: A thin bed of very dark gray (5Y 3/1), |
| | } | 5 | | 4 | Pliocene | | \dashv | | 5Y 5/3 | organic-rich (>6%) CLAY WITH DIATOMS is present near the top of Section 4. General Description: The core is extensively fractured and |
| | { | 6 | | 5 | | * = | 1-1-1-1-1 | | 5Y 5/2 | biscuited throughout, obscuring and truncating primary sedimentary features. Distinct burrows are rare. |
| | | 7 8 8 | | 6 | | _ | 1 | Ø | 5Y 5/3 | |
| 0 20 -1 | 0 0 1 | 0 | | CC | | | \perp | М | 2.5Y 3/2 | |

| | | SI | ΓΕ 1014 | HC | LE | A COR | | | | CORED 324.1 - 333.7 mbsf |
|------------------------------------|---|-------|------------------|---------|----------|-----------|---|--------|-------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | - | | | | | \square | | 2.5Y 5/2 | CLAY WITH NANNOFOSSILS and NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS |
| | | | | 1 | | | 1-1-1-1-1 | | 2.5Y 3/2 | Major Lithologies: This core consists of thick alternations |
| | | 2 | | 2 | | | $\neg \neg \neg \neg \neg \neg \neg$ | | 2.5Y 4/2 | between dark olive gray (2.5Y 3/2) to olive gray (2.5Y 4/2) CLAY WITH NANNOFOSSILS and olive gray (5Y 4/2) to grayish brown (2.5Y 5/2) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS. The nature of bedding contacts are obscured by fracturing and extensive biscuiting of |
| } | } | 3_ | | | | | \perp \perp \perp \perp \perp | | 2.5Y 3/2 | the core. Trace amounts of glauconite are distributed through all lithologies and slightly concentrated at Section 6, |
| | | 4 | | 3 | Pliocene | 3 | HHHHHHHHH | S | 2.5Y 5/2 | 50 cm. General Description: This core is extensively fractured and pulverized by biscuiting during XCB coring. Primary features are largely obscured. Only very few distinct |
| | \ \ \ \ | 5_ | | 4 | | | 44444- | | 2.5Y 3/2 | burrows are detectable. |
| | } | 7 | | 5 | | | HHHHHH- | SS | 2.5Y 4/2 | |
| | | 8 | | 6 CC | | 6 | $\wedge \wedge \wedge \wedge \rightarrow \neg \rightarrow \neg \rightarrow \neg \rightarrow \neg$ | S | 5Y 4/2 | |

| (650-700 nm) (10 ⁻⁶ S)) ≥ Litt. | Description ORAMINIFERS AND NOFOSSIL OOZE |
|--|---|
| SILT and NANI WITH CLAY Major Lithologi This core is con gray (57 3/1) to brown (2.5Y 3/f) FORAMINIFER | |
| brown (2.5Y 4// | mposed of very dark o very dark grayish |
| Minor Lithology A gray (2.5Y 6 ASH layer occurrence and a small VI Section 3, 102 are disseminated as the control of the contr | /0) VITRIC VOLCANIC urs in Section 3, 17 cm, TRIC ASH pod occurs in cm. Glauconite grains ed throughout the core. iption: cuited and moderately urbation is not evident |
| 6 | |

| | | SIT | ΓΕ 1014 | | LE | A C | OR | | 40X | | CORED 343.4 - 353.0 mbsf |
|------------------------------------|---|------------|------------------|---------|----------|--------|----------|--|--------|--------------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Struct | ure | Disturb | Sample | Color | Description |
| | 3 | | | 1 | | | @ | ~~~~~ | | 5Y 4/2 | CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and CLAY WITH FORAMINIFERS AND SILT |
| | | | | 2 | | 3 | | 1444- | S | 2.5Y 3/2 | Major Lithologies: This core is composed of m-scale alternations of dark grayish brown |
| | | 2 | | 3 | | } | @ | 1 | S | 2.5Y 4/2 | (2.5Y 4/2) to olive gray (5Y 4/2) CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and very dark grayish brown (2.5Y 3/2) CLAY WITH FORAMINIFERS AND SILT. The boundaries are gradational. |
| | | 4 | | 4 | e | , | @ | | - | 2.5Y 3/2 | General Description: The core is moderately biscuited. Bioturbation is evident only partly and glauconite grains are disseminated throughout. |
| \\ \{\} | | 5 | | | Pliocene | | | 1111 | | | |
| | | 6 | | 5 | | | @ | -1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | S | 2.5Y 4/2 To 5Y 4/2 | |
| $ \rangle $ | } | 7 <u>-</u> | | 6 | | | @ | \dashv \dashv \dashv \dashv | | | |
| | } | 8 | | | | » » » | | | | 5Y 3/2 5Y 5/2 | |
| | } | 9 - | | 7 CC | | 3 | G | | | 2.5Y 3/2 | |
| 0 10 | 0 10 2 | <u> </u> | 3月111111 | | | | | | М | | |

| Reflectance (%) Magnetic suscept. (10-9 s) W Graphic (eso-700 nm) (10-9 s) W Graphic Lith. (9 of 9) W Structure (10 of 9) W Structur |
|--|
| SEDIMENT and CLAY Major Lithologies: This core is composed of m-scale alternations of light gray (5Y 7/1) to olive gray (5Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENT and olive gray (5Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENT and olive gray (6Y 4/2) to very dark gray (5Y 3/1) CLAY. The boundaries are gradational. Minor Lithology: A 45 cm thick layer of dark olive gray (5Y 3/2) DOLOMITE occurs in the top part of the core. General Description: The core is moderately biscuited. Moderate bioturbation is evident in the lighter colored layers. |
| 0 20 0 10 20 |

SITE 1014 HOLE A CORE 42X CORED 362.6 - 372.2 mbsf Sample Magnetic Reflectance Graphic suscept. (%) (650–700 nr Description Structure Lith. (10-6 SI) CLAY WITH FORAMINIFERS and NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS G Major Lithologies: This core is composed of m-scale alternations of very dark gray (5Y 3/1) to black (2.5Y 3/0) CLAY WITH FORAMINIFERS and dark grayish brown (2.5Y 4/2) to grayish brown (2.5Y 5/2) NANNOFOSSIL CLAY (G 2.5Y MIXED SEDIMENT WITH FORAMINIFERS. The boundaries are gradational. General Description: G 3/2 The core is moderately fractured and biscuited. Glauconite grains are disseminated throughout the core. s D N3/0 Millimeter-scale parallel laminations occur in several horizons whereas 33 33 moderate bioturbation is evident in the middle of the core. 2.5Y 4/2 G 2.5Y 5/2 s G N3/0 2.5Y 3/2 G 5Y 3/2 0 10 0 10 20

1014A-43X No photo available

| SIT | SITE 1014 HOLE A CORE 43X CORED 372.2 - 381.8 mbsf | | | | | | | | | | | | |
|-------|---|---------|-----------|---------|--------|-------|-------------|--|--|--|--|--|--|
| Meter | Graphic Lith. | Section | Structure | Disturb | Sample | Color | Description | | | | | | |
| DO | DLOMITE V | VITH | FORAMINIF | ERS | 3 | | | | | | | | |
| Th | Major Lithology: This core only recovered approximately 5 cubic cm of fragmented, sucrosic, very dark | | | | | | | | | | | | |

grayish brown (2.5Y 3/2) DOLOMITE WITH FORAMINIFERS. Alizarin Red and HCl tests suggest that it is compositionally a protodolomite.

Seneral Description:

No recovery except for loose cm to mm-scale fragments. No photo available.

| | | SI | ΓΕ 1014 | | LE | A COR | E | | | CORED 381.8 - 391.3 mbsf |
|------------------------------------|---|-------|------------------|--------------|--------------|-----------|----------------|--------|-----------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| { | * | | | 1 | | | | | 5Y 3/2 | NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK |
| | \$ | 1 | | 2 | | 33 33 | 1111 | | 5Y 4/2 | Major Lithologies: This core consists of olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) CLAYEY NANNOFOSSIL CHALK and olive (5Y |
| | | 2 | | | | ,, | 1111- | S | 5Y 5/3 | 5/3) NANNOFOSSIL CHALK WITH CLAY. Clay content varies betweeen 15%-30%. |
| | | 3 | | 3 | | 3 | 111111111 | I | 5Y 4/2 | General Description: The sediments show slight bioturbation but extensive fracturing makes observation of surface features difficult. Glauconite grains are disseminated throughout the core. |
| | 7 | 4 | | 4 | | - | 1111 | | | Note: 8 cm is missing between Section 1 and Section 2. |
| | | 5_ | | | late Miocene | | 111111 | | 5Y 5/2 | |
| | | 6 | | 5 | 9 | | 111111 | | 5Y 3/2 | |
| | James | 7 | | 6 | | | | | 5Y 4/2 | |
| } | | 9 | | 7 8 CC | | | 11111111111111 | S | 5Y 3/2 | |
| 6 12 | 0 5 | 10 | | | | | 1 | М | | |

| | | SI | ΓΕ 1014 | HC | LE | A COR | E | | | CORED 391.3 - 401.0 mbsf |
|------------------------------------|---|------------------|------------------|---------|-------------|-------------|------------------|--------|-------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | _ | 1 | | 1 | | } | | S | 5Y 5/2 | NANNOFOSSIL CHALK WITH CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithologies: This core consists of very dark grayish |
| | | 2 | Void | 2 | | 3 | 1-1-1-1 | | 5Y 4/2 | brown to olive gray (2.5Ý 3/2 to 5Y 3/2) NANNOFOSSIL CLAY MIXED SEDIMENT and olive to olive gray (5Y 4/3 to 5Y 4/2) NANNOFOSSIL CHALK WITH CLAY. Color and compositional changes are |
| | | 3_ | | 3 | | 3 | | | 2.5Y 3/2 | gradational. General Description: The sediments show slight bioturbation |
| | $\left. \left\{ \right. \right. \right.$ | - - - - | | | | 3 | \ \ \ \ | | 5Y 4/2 | but extensive fracturing makes observation of surface features difficult. |
| 3 | | 5 | | 4 | ate Miocene | | <u> </u> | S | 5Y 3/2 | Note: Section 1 was disturbed during coring operations and its stratigraphic orientation is uncertain. |
| | { | | | | late | } } } | 1 | | 5Y 4/3 | |
| | | 6 | | 5 | | 3 | 111111 | | 5Y 3/1 | |
| M | } | 7 | | 6 | | } } } | | | 5Y 4/3 | |
| | > | 8 | | 7 | | , | | | 5Y 3/1 | |
| 4 9 0 | , , 7 1 | 4 | | СС | | | > | M | 5Y 4/2 | |

| | | SIT | E 1014 | | | A COR | Ε∠ | 16X | | CORED 401.0 - 410.5 mbsf |
|------------------------------------|---|-------|------------------|---------|--------------|--|---|--------|------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| 7 | | | 3 3 3 3 | 1 | | | > > | | 5Y 3/1 | NANNOFOSSIL CHALK WITH CLAY and CLAY Major Lithologies: |
| | | - | | 2 | | | | | 5)/ | This core consists of very dark gray (5Y 3/1) CLAY and olive gray (5Y 5/2 to 5Y 4/2) NANNOFOSSIL CHALK WITH CLAY. Color and compositional |
| | 5 | 2 | 3 | | | | _ _ _ _ _ _ | | 5Y 3/2 | changes are gradational. General Description: The sediments show slight |
| | } | 3_ | | 3 | | 3 | | | 5Y 4/2 | bioturbation. Note: Bottom of Section 2 has expanded by 10 cm after cutting |
| | } | | | | | | 1 | | 4/2 | sections. This interval is boxed separately. |
| | | 4 | | 4 | ocene | ** ** ** ** ** ** ** ** ** ** ** ** ** | 11111 | | 5Y | |
| | | 5 | | | late Miocene | }} }} }} | \perp \perp \perp \perp \perp | | 5/2 To 5Y 4/2 | |
| | | 6 | | 5 | | \$\$ }} }} | \perp \perp \perp \perp \perp | | | |
| | | - | | | | | <u>+</u> | | | |
| | | 7 | 3 3 3 | 6 | | } } } | <u> </u> | | 5Y 3/2 | |
| | 3 | 8_ | <u>-</u> | | | 3 | <u>+</u> | | | |
| | \leq | , | | 7 | | } | 1111 | | EV | |
| | ž | 9 | <u> </u> | CC | | 3 | \perp \perp \perp \perp | | 5Y 4/2 | |
| 6 12 0 |) 8 1 | 6 | : | | | 3 | Ш | M | | |

| | | SIT | E 1014 | | LE | A COR | _ | | | CORED 410.5 - 420.2 mbsf |
|------------------------------------|---|-------------|------------------|---------|--------------|----------------|---|--------|-----------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | | | 1 | | | ^^^ | | 5Y 3/1 | NANNOFOSSIL CLAY MIXED SEDIMENT and NANNOFOSSIL CHALK WITH CLAY |
| | | 1_ | | | | } | \perp | | 5Y 3/2 | Major Lithologies: This core consists of olive gray to |
| | | 2 | | 2 | | 33 | 11111 | | 5Y 5/2 | very dark olive gray (5Y 4/2 to 5Y 3/1) NANNOFOSSIL CLAY MIXED SEDIMENT and olive to olive gray (5Y 4/3 to 5Y 4/2) NANNOFOSSIL |
| | { | | | | | 33 | \perp | | 5Y 4/2 | CHALK WITH CLAY. Color and compositional changes are gradational. |
| | | 3 | | 3 | | 33 33 33 | \dashv | I | 5Y 3/2 | General Description: The sediments show moderate bioturbation but extensive fracturing makes observation of surface features difficult. |
| | | 4 - 5 | | 4 | late Miocene | 3 3 | | | 5Y 4/2 | Note: Section 1 was disturbed during coring operations and its stratigraphic oritentation is uncertain. |
| | | 6 | | 5 | | } | | S | 5Y 5/3 | |
| | | 8 | | 7 | | \$\$ } } | $\wedge \vee \vee$ | S | 5Y 4/2 | |
| 4 12 2 | 2 7 1 | 9 | | СС | | | > | M | 5Y 3/2 | |

| | SI | TE 1014 | HC | LE | A COR | Ε | | | CORED 420.2 - 429.8 mbsf |
|----------|--------------------------|------------------|--------------|--------------|-----------|---|----------------|-----------|--|
| (%) susc | netic cept. -6 SI) | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | - | | 1 | | | $\vee \vee \vee \vee \vee \vee$ | | 5Y 3/2 | CLAY NANNOFOSSIL MIXED SEDIMENT and NANNOFOSSIL CHALK WITH CLAY Major Lithologies: |
| | 2 | | 2 | | | $\triangle \triangle \triangle \triangle \triangle \triangle$ | s _D | 5Y 3/1 | This core is composed of dark olive gray (5Y 3/2) to very dark gray (5Y 3/1) CLAY NANNOFOSSIL MIXED SEDIMENT in the upper and lower parts and dark gray (5Y 4/2) NANNOFOSSIL CHALK WITH CLAY |
| | 3_ | | 4 | late Miocene | | ^^^^^^^^^^ | S D | 5Y 4/2 | in the middle part. The boundaries are gradational. General Description: The core is extensively disturbed. Note: Section 1 was disturbed during coring operations and its stratigraphic orientation is unknown. |
| | 5_ 5_ 6_ 7_ | | 5 6 CC | | 3 | ^^^^^^^^^^^^^ | M | 5Y 3/2 | |
| 4 9 2 9 | 9 16 | | | | | - | | | |

| | | SIT | ΓΕ 1014 | HC | LE | A COR | E 4 | 49X | | CORED 429.8 - 439.4 mbsf |
|------------------------------------|---|-------|------------------|---------|-------------|-----------|------------------------|--------|------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 7 | | | 1 | | | \wedge | | 5Y 3/2 | CLAY and CLAYEY NANNOFOSSIL CHALK |
| | | 2 | | 2 | | | | S | 5Y 4/3 | Major Lithologies: This core is composed of m-scale alternations of olive (5Y 5/3 to 4/3) CLAYEY NANNOFOSSIL CHALK and dark olive gray (5Y 3/2) to very dark gray (5Y 3/1) CLAY. The boundaries are gradational. |
| | 5 | - | | | | | \dashv | | | General Description: The core is moderately to extensively |
| } | 2 | 3 | | 3 | | 3 | 14- | | | biscuited and fractured. Bioturbation is rarely observable. |
| \ <u>\</u> | | = | | | | | \dashv | | 5Y 3/1 | Note: Section 1 was disturbed during coring operations and its stratigraphic |
| | } | 4 | | 4 | cene | | \dashv | | | orientation is unknown. |
| | 1 | | | | ate Miocene | | \dashv | | 5Y 3/2 | |
| | | 5 | | | - | | | | 5Y 3/1 | |
| | | - | | 5 | | | 1 1 1 1 | | 5Y 3/2 | |
| | { | 6 | | | | | \vdash | | | |
| | | | | | | 3 | \perp | | 5Y 5/3 | |
| | 4 | 7 | | 6 | | 33 | -H- | | | |
| | } | = | | | | 3 | \vdash | | 5Y | |
| | | 8_ | | 7 | | } | ^^^ | S | 3/2 To 5Y 3/1 | |
| | <u> </u> | 9 - | | CC | | , | $\wedge \wedge \wedge$ | М | | |
| 2 8 0 | 7 1 | 4 | | _ | | | 1 | IVI | | l |

| | | SIT | ΓE 1014 | HC |)LE | A COR | Ε : | | | CORED 439.4 - 449.0 mbsf |
|------------------------------------|---|--------------------|------------------|---------|--------------|---|---|--------|----------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | }} }} & | $\wedge \wedge \wedge \wedge \wedge \wedge \wedge$ | SD | 5Y 4/3 | CLAY WITH SILT and NANNOFOSSIL CHALK WITH CLAY Major Lithologies: This core consists of very dark grayish brown to black (2.5Y 3/2 to 5Y 2.5/1) |
| | | 2 | | 2 | | 33 | $\wedge \wedge \wedge \wedge \wedge \wedge \wedge$ | | 2.5Y 3/2 2.5Y 4/2 | CLAY WITH SILT and olive gray to olive (5Y 4/2 to 5Y 3/2) NANNOFOSSIL CHALK WITH CLAY. Color and compositional changes are gradational. |
| | | 3_ | | 3 | ene | } | $\wedge \wedge \wedge \wedge \wedge \wedge \wedge \wedge$ | | 5Y 2.5/2 | General Description: The sediments show moderate bioturbation. XCB coring has caused extensive biscuiting of this core. |
| | | 4 | | | late Miocene | } }} | $\wedge \wedge \wedge \wedge \wedge \wedge$ | I | 5Y 3/2 | |
| | | 5 - - 6 | | 5 | | } | $\wedge \wedge $ | S D | 5Y 2.5/2 | |
| | | 7 8 | | 6 CC | | 33333333 | AAAAAAAA | М | 5Y 4/2 | |
| 4 10 | 0 10 2 | 8 - | | CC | | }} | > | M | | |

| | | SIT | E 1014 | HC | LE | B COR | Ε . | 1H | | CORED 0.0 - 3.2 mbsf |
|------------------------------------|---|-------|------------------|---------|------------|---------------|---------|--------|-------------------------------------|--|
| Reflectance (%) (650-700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| - / | 10 0 1 | 2 | | 1 2 | Quaternary | <i>ප</i> ප | 0 | S | 5Y 5/4 5Y 4/2 5Y 4/3 | FORAMINIFER CLAY Major Lithology: This core consists of homogeneous olive to olive gray (5Y 5/4 to 5Y 4/2) FORAMINIFER CLAY. Color changes are subtle and gradual. General Description: The sediments are homogeneous. |
| | | - | | | | | | | | |

| | | SIT | E 1014 | | LE | B COR | Ε : | 2H | | CORED 3.2 - 12.7 mbsf |
|------------------------------------|---|------------------|------------------|---------|------------|-----------|---------|--------|-------------------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 3 | | 2 | ıry | | | S | 5Y 4/4 | NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY WITH FORAMINIFERS Major Lithologies: This core consists of olive (5Y 4/4) NANNOFOSSIL OOZE WITH CLAY and olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) SILTY CLAY WITH FORAMINIFERS containing about 10% foraminifers. Color and compositional changes are gradational. |
| | | 5 5 6 7 | | 5 | Quaternary | | | S | 5Y 3/2 5Y 4/4 5Y 3/2 | |
| | | 8 | | 6 | | | | | 5Y 4/4 | |
| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 9 | | | | | | | 5Y 4/2 | |
| 0 5 5 | 5 10 1 | - | | 7 CC | | | | М | 5Y 3/2 | |

| | | SIT | E 1014 | HC | LE | B COR | | 3H | | CORED 12.7 - 22.2 mbsf |
|------------------------------------|---|-------|------------------|---------|------------|--|---------|--------|-----------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| 7 | J. Mary | | | | | >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | | | 5Y 5/2 | NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY and NANNOFOSSIL CLAY WITH SILT |
| | | 1_ | | 1 | | 3 | | | 5Y 4/2 | Major Lithologies: This core consists of dark olive gray (5Y 3/2) NANNOFOSSIL CLAY WITH SILT and olive gray to olive gray (5Y 5/2 to 5Y 4/2) NANNOFOSSIL OOZE |
| | | 2 | | 2 | | } | | | 5Y 4/3 | 5/2 to 5Y 4/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color and compositional changes are gradational. |
| } | ~ / / / / / / / / / / / / / / / / / / / | 3 | | | | | | | 5Y 4/2 | General Description: The sediment is slightly bioturbated or homogeneous. |
| | | 4 | | 3 | ^ | 3 | | S | 5Y 4/3 | |
| | Jama | 5_ | | 4 | Quaternary | | | | 5Y 3/2 | |
| | } | 6 | | | | | | | 5Y 4/2 | |
| | | 7 | | 5 | | | | | 5Y 3/2 | |
| | > | 8 | | | | 3 | | | 5Y 5/2 | |
| | 1 | - | | 6 | | 3 | | S | 5Y 3/2 | |
| | \$ | 9 | | 7 | | 3 | | | 5Y 4/3 | |
| 0 10 | 5 10 1 | 5 | | СС | | | | М | 5Y 4/2 | |

| | | SIT | E 1014 | HO | LE | B COR | | | | CORED 22.2 - 31.7 mbsf |
|------------------------------------|---|-------|------------------|---------|------------|----------------------------|---------|--------|-------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| ~ | } | | | _ | | | MM | | 5Y 3/1 | SILTY CLAY WITH CARBONATE and FORAMINIFER NANNOFOSSIL OOZE |
| \[\sigma_{\text{sec}} \] | } | | | 1 | | | | S | 5Y 6/3 | Major Lithologies: This core consists of thick alternation between very dark gray (5Y 3/1) |
| | { | - | | | | | i | | 5Y 4/1 | SILTY CLAY WITH CARBONATE and pale olive (5Y 6/3) to olive gray (5Y |
| | | 2 - | | 2 | | } } } } } } | | | 5Y 4/3 | 5/2) FORAMINIFÉR NANNOFOSSIL OOZE. The silt fraction is composed of quartz, feldspar, mica, volcanic glass, and amphibole. Color transitions are gradational. |
| | | 1 | | 3 | | }} }} }} | | | 2.5Y 4/2 | General Description: The core is homogeneous or shows slight to moderate bioturbation. |
| | | 4 | | 3 | | } } } } | | | 2.5Y 3/2 | |
| | } | 5_ | | | Quaternary | 3 | | | 5Y 4/3 | |
| | | 6 | | 4 | Qua | | | S | 5Y 3/1 | |
| } | } | - | | 5 | | } | | | 2.5Y 4/2 | |
| | } | 7 | | | | } | | | 5Y 5/2 | |
| 1 | } | 8 | | 6 | | 33 33 33 33 | - MMM | | 10Y 6/2 | |
| | | 9 | | 7 | | \$\$ } } | M | | 5Y 4/2 | |
| 5 10 0 |) 10 2 | 0 | | СС | | | - | М | 5Y 3/1 | |

| | | SI | ΓΕ 1014 | HC | LE | B COR | E | 5H | | CORED 31.7 - 41.2 mbsf |
|--|---|-------|------------------|---------|------------|----------------|---------|--------|----------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | - Mary | 1_ | | 1 | | 33 | | S | 2.5Y 3/1 | CLAY WITH SILT, CLAY WITH NANNOFOSSILS and NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS Major Lithologies: The core consists of irregular and gradational alternations between very dark grayish brown (2.5Y 3/1) to very |
| | \\{\} | 2_ | | 2 | | }} }} | | S | 2.5Y 4/2 | dark gray (5Y 3/1) CLAY WITH SILT, dark grayish brown (2.5Y 4/2) to dark gray (5Y 4/1) CLAY WITH |
| | \{ \{ \{ | 3_ | | | | <i>"</i> | | | | NANNOFOSSILS, and olive (5Y 6/2) to olive gray (5Y 5/2) NANNOFOSSIL OOZE WITH CLAY AND |
| } | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | , | | | | | | | 5Y | FORAMINIFERS. Color transitions are gradational. |
| | | 4_ | | 3 | | }} }} }} | | S | 5/2 | General Description: The sediment is moderately bioturbated. |
| | | 5_ | | 4 | Quaternary | » » » » » » | | | 2.5Y 5/2 | |
| | | 6_ | | | | } } | | | 5Y 6/2 | |
| } | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 7_ | | 5 | | } | | | 5Y 5/2 | |
| | } | | | | | } } } | | | 5Y 6/2 | |
| } | 2 | 8_ | A | | | | | | 5Y 4/2 2.5G 2.5/2 | |
| | \\ <u>\</u> | - | 7 | 6 | | } }} | | | 5Y 3/1 | |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 9 | | 7 CC | | 33 | | М | 5Y 4/1 | |
| 0 10 | 5 10 1 | 5 | 1·1-' | ,,,, | _ | | _ | I IVI | I | <u> </u> |

| S, SILT |
|---------------------------------------|
| k gray CLAY AND I primary |
| ns in in to e shown |
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| ous, but in the |
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| | SIT | E 1014 | HC | LE | B COR | E | 7H | | CORED 50.7 - 60.2 mbsf |
|---|----------|-------------------------------|---|--|---|---|--|--|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | | | | - % | \\\\\\\ | | 5Y 3/2 | NANNOFOSSIL CLAY MIXED SEDIMENT and CLAY WITH FORAMINIFERS AND SILT |
| | 2 | | | | } | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | 5Y 4/1 | Major Lithologies: This core consists of 10 to 150 cm- scale alternation between olive gray (5Y 4/2 to 5Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENT and very dark grayish brown (2.5Y 3/2) CLAY WITH FORAMINIFERS AND SILT. |
| W \ | 3 | | | | - } | 1 | | 5Y 4/2 | Light color bands too thin to be depicted in the Color column are shown in the Structure column. |
| |] | | | | <u> </u> | 1 | | 2.5Y 4/2 | Minor Lithology: A single thin lamination of |
| | 4 | | 3 | | } | i I I | | 5Y 4/2 | FORAMINIFERAL VITRIC ASH SAND occurs near the base of Section 7. An isolated 2 cm thick pebble of fine- |
| | | | | У | | 1 | | 2.5Y 3/2 | grained basalt occurs at Section 1, 47 cm. |
| | 5 | | 4 | Quaternar | · | | S | 5Y 5/2 | General Description: This core is mostly homogeneous, but distinct burrows are rare to common in several sections. Several isolated burrows are filled with pure foraminiferal sand in Section 1 and Core Catcher. |
| | | | 5 | | } | | | 5Y 4/1 | |
| | 7 | | | | 33 33 | M | S | 2.5Y 3/2 | |
| | 8 | | 6 | | , | > > > | | 5Y 4/1 | |
| | 9 | | 7 | | — → | | ħ.4 | 5Y 3/2 | |
| | suscept. | Magnetic suscept. (10-6 SI) W | Magnetic suscept. (10-6 SI) W Graphic Lith. | Magnetic suscept. (10-6 SI) W Graphic Lith. 22 | Magnetic suscept. (10-6 SI) Lith. Graphic Lith. 2 2 3 4 4 9 Operations 4 Operations 4 Operations 4 Operations 6 Operations 6 Operations 6 Operations 6 Operations 7 Operations 9 Operations 9 | Magnetic suscept. (10-6 SI) Page Graphic Lith. Sport Structure 2 | Magnetic suscept. (10-6 SI) Page Graphic Lith. Structure Struc | Magnetic suscept. (10-6 SI) Page Graphic Lith. Structure Quinty Quint | Magnetic suscept. (10-6 SI) Magn |

| | | SIT | E 1014 | HC | LE | B COR | Е | | | CORED 60.2 - 69.7 mbsf |
|------------------------------------|---|---------------|------------------|---------|------------|---------------------------------------|----------|--------|------------------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | | MM | S | 5Y 3/1 | CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and FORAMINIFERAL CLAY WITH SILT Major Lithologies: This core consists of gradual alternations between olive gray (5Y |
| \ | 5 | _ | | | | | | | 5Y 4/1 | 4/2) to grayish brown (2.5Y 5/2) CLAYEY NANNOFOSSIL OOZE |
| | | 3 | | 3 | | * * * * * * * * * * * * * * * * * * * | | S | 5Y 4/2 | WITH FORAMINIFERS and very dark gray (5Y 3/1) to dark olive gray (5Y 3/2) FORAMINIFERAL CLAY WITH SILT. Alternation is on a decimeter-scale in Section 4, but at a 50-200 cm scale elsewhere. Minor Lithology: A 2 mm thick lamination of gray FORAMINIFERAL SAND occurs in Section 3. |
| | | 5 | | 4 | Quaternary | }} }} | | | 5Y 4/1 5Y 3/2 | General Description: This core is moderately bioturbated. It contains several cm-thick, horizontal and vertically oriented burrows. |
| } | 3 | - | | | Ø | }} }} }} | 1 | | 5Y 4/2 | |
| } | 4 | 6 | | | | }} | | | 5Y 4/1 | |
| | | 7 | | 5 | | 33 33 | | | 5Y 4/2 | |
| \ | { | - - 8 - | | | | | İ | | 2.5Y 4/2 2.5Y | |
| | } | | | 6 | | }} }} | 1 | S | 5/2 | |
| | 7 | 9 | | 7 | | ** ** ** ** ** ** | | | 2.5Y 3/2 | |
| 5 10 | 0 5 1 | 10 0 | | СС | | | <i>≥</i> | М | 10Y 4/1 | |

| | | SI | ΓΕ 1014 | | | B COF | | | | CORED 69.7 - 79.2 mbs |
|------------------------------------|---|-------|------------------|---------|------------|--|---------|--------|-------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | | | | | _ | | | 2.5Y 4/2 | CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY |
| | } | 1_ | | 1 | | | /// // | | 2.5Y 3/2 | Major Lithologies: This core consists of alternations along a complete compositional spectrum between very dark gray |
| | { | 2 | | 2 | | | | S | 5Y | (2.5Y 3/2) CLAY WITH FORAMINIFERS and olive (5Y 4/3) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color |
| } | } | - | | | | | li | | 5/2 | transitions are gradual. |
| | } | 3 | | 3 | | | | | | Minor Lithology: A mm-thick lamination of FORAMINIFERAL SAND occurs in the upper part of Section 1. |
| | } | 4 | | | ary | } | | | 2.5Y 3/2 | General Description: The core is mostly homogeneous with localized areas of moderate distinct bioturbation. |
| | 5 | 5_ | 3 | | terna | | l | | | |
| | } | 6 | | 4 | Quaternary | }} }} ** | | s | 2.5Y 5/2 | |
| | ζ | | | | | >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | li | | 5Y 4/2 | |
| | | 7 | | 5 | | ** | | | 2.5Y 3/2 | |
| $ \geq $ | \langle | 1 | | | | | H | | 5Y 5/2 | |
| | } | 8 | | 6 | | } } } | | | 5Y 4/2 | |
| } | \{\} | 9 | | L | | 33 33 33 33 | | | | |
| 5 10 0 |) 10 2 | 0 | | 7 CC | | ** | | S M | 5Y 4/3 | |

| Reflectance (%) (850–700 nm) (10 ⁻⁶ SI) | , |
|---|--|
| Major Lithologies: This core consists of 50-200 cm alternations between dark olive (SY 3/2) FORAMINIFERAL CLAWITH SILT and medium to light gray (5Y 5/2 to 5Y 6/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. So to 2,5/2 organic-rich CLAY W FORAMINIFERS. To 2,5/3 and 6. Foraminifer-fi burrows also occur near these horizons. S | , |
| Major Lithologies: This core consists of 50-200 cm alternations between dark olive (SY 3/2) FORAMINIFERAL CLAWITH SILT and medium to light gray (5Y 5/2 to 5Y 6/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. So to 2.5/2 organic-rich CLAY W FORAMINIFERS. To 2.5/3 Minor Lithology: Two mm-scale laminations of FORAMINIFERAL SAND occur Sections 5 and 6. Foraminifer-fit burrows also occur near these horizons. S S 6/2 SY 4/2 To 2.5/2 Organic-rich CLAY W FORAMINIFERAL SAND occur Sections 5 and 6. Foraminifer-fit burrows also occur near these horizons. S General Description: This core is mostly homogeneo within color bands. Burrows are within color bands. Burrows are | |
| FORAMINIFERS. Solution Solut | gray AY t olive Section of black |
| 5 T T T T S S S S S S S S S S S S S S S | · in |
| \langle \rangle \langle \rangle \langle \langle \langle \langle \langle \langle \langle \langle \langle \langle | rare to |
| 6 7 core. | the |
| 5 3 3/2 2.5Y 3/2 2.5Y | |
| 3 3 5 5 5 5 5 5 | |
| 3 3 5 5 5 5 5 7 3/2 | |
| 7 3/1 10Y 3/1 5Y 3/2 3/2 | |

| | | SIT | TE 1014 | | | B COR | | 11H | | CORED 88.7 - 98.2 mbsf |
|------------------------------------|---|-------|---|---------|------------|----------------------|---------------|--------|-------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | | Sample | Color | Description |
| | 3 | - | <u> </u> | | | | <i>></i> . | | 5Y 3/1 | FORAMINIFERAL CLAY WITH SILT and NANNOFOSSIL CLAY MIXED |
| } | } | | | 1 | | 3 | - | | | SEDIMENT WITH FORAMINIFERS |
| } | \frac{4}{1} | | 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | }} }} | i | | | Major Lithologies: This core consists of thick, gradual alternations between very dark gray (5 |
| |] | | | | | | - | | | 3/1) to dark grayish brown (2.5Y 4/2) FORAMINIFERAL CLAY WITH SILT |
| | { | 2 | 지조 전소 | 2 | | » » | i | | 5Y 4/2 | and olive gray (5Y 4/2 to 5Y 5/2) NANNOFOSSIL CLAY MIXED |
| | [{ | | 지조 건소 | _ | | 3 | | s | To 2.5Y | SEDIMENT WITH FORAMINIFERS. General Description: |
| } | | 3_ | | | | } | i | | 4/2 | Abundant foraminifers are visible on split core surface, especially in Section |
| | } | - | 지수 건축 | | | | | | | 3. This core is mostly homogeneous within broad color bands. Distinct |
| } | } | 4_ | 자.소. 건 소. | 3 | | _ | | S | | burrows are quite rare. |
| } | \ | | | | | | i | | | |
| | } | 5_ | | | Quaternary | | - | s | 5Y 5/2 | |
| \ | } | | 7-7-3 7-1-3 | 4 | Quat | | i | | To 2.5Y 4/2 | |
| 1 3 | } | 6 | | | | | | | 4/2 | |
| | { | | 7.2. 7.2 | | | 33 33 33 33 | | | | |
| | } | 7 | | 5 | | }} }} | i | | EV. | |
| } | { | - | 7-2-1 7-2-1 | | | } | - | | 5Y 4/2 | |
| } | \ | - | ÷,÷. ≿,÷. | | | | i | | | |
| | } | 8 - | | 6 | | | | | 5Y | |
| | \ \{\ | | }-,-[| | | | İ | | 3/1 | |
| | | 9 | | | | | - | | 5Y 4/2 | |
| | \ | - | *;;;; *;;; | 7 | | | ! | | To 5Y 3/2 | |
| 5 10 0 |) 10 2 | 10 | ± + + + + + + + + + + + + + + + + + + + | CC | | | ≷ | М | | |

| | | SIT | E 1014 | HC |)LE | B COR | Ε ΄ | | | CORED 98.2 - 105.2 mbsf |
|---|---|-------|------------------|---------|------------|----------------|-------------------|--------|------------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | } | 1 | | 1 | | > | WWWWW | S | 5Y 3/2 To 5Y 4/2 | SILTY CLAY WITH FORAMINIFERS and CLAY WITH FORAMINIFERS AND SILT Major Lithologies: This core consists of alternations between very dark gray (5Y 3/1 to 2.5Y 4/2) SILTY CLAY WITH |
| } | | 2 | | 2 | | >> >> >> | | | 5Y 3/2 | FORAMINIFERS and grayish brown (5Y 5/2) CLAY WITH FORAMINIFERS AND SILT. Foraminifers make up 15%, quartz and feldspar 25%, and clay 50% to 60% of the major lithology. The |
| | } | 3 | | | ary | | | | 5Y 3/1 | boundaries are gradational. General Description: |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | 5 | | 3 | Quaternary | ***** | | S | 5Y 5/2 | The core is slightly bioturbated. |
| | | 6 | | 5 CC | | } | ···· // -· /// // | М | 5Y 3/1 2.5Y 4/2 | |
| 0 10 (| 0 10 2 | 20 | | CC | | | ≷ | M | | |

| | | SIT | TE 1014 | HC | LE | B COR | | | | CORED 105.2 - 114.7 mbsf |
|------------------------------------|---|---------|------------------|----------------|------------|-------------------|----------|--------|---|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| 0 10 - | 20 0 2 | 3 3 5 0 | | 1 2 3 4 5 6 CC | Quaternary | % 6 % % % % | \wedge | s s | 2.5Y 3/2 5Y 4/2 5Y 7/2 2.5Y 5/2 5Y 4/2 2.5Y 3/2 5Y 5/3 2.5Y 4/2 2.5Y 4/2 | NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and CLAY WITH SILT AND FORAMINIFERS Major Lithologies: This core consists of alternations of light gray (5Y 7/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and very dark grayish brown (2.5Y 3/2) CLAY WITH SILT AND FORAMINIFERS. Foraminifers compose 15% to 25% of the sediment. General Description: The core is bioturbated in the lighter colored layers whereas darker colored layers are homogeneous. Note: Orientation is questionable for all sections. |

| | | SIT | E 1014 | | LE | B COR | E 1 | | | CORED 114.7 - 120.1 mbsf |
|------------------------------------|---|-------|------------------|---------|------------|-----------|---------|--------|---|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 3 3 5 | | 3 | Quaternary | | | S | 2.5Y 3/2 5Y 3/1 2.5Y 4/2 2.5Y 3/2 5Y 3/2 | NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY Major Lithologies: This core consists of very dark gray to dark olive gray (5Y 3/1 to 5Y 3/2) SILTY CLAY and dark grayish brown to very dark grayish brown (2.5Y 4/2 to 2.5Y 3/2) NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are gradational. Minor Lithology: Near the base of the core in Section CC occurs black (5Y 2.5/1) SILTY CLAY WITH SPICULES containing about 10% sponge spicules. |
| 10 (| 0 10 2 | 0 | | CC | | | | SM | 2.5/1 | |

| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | ter | 0 | _ | | | _ | 45 | | |
|------------------------------|---|-------|------------------|---------|------------|-----------|---|--------|--------------------------------|---|
| } ' | (| Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| } | ~~~~ | 1 | | 1 | | | $\wedge \wedge $ | | 5Y 2.5/1 To 5Y 3/1 | NANNOFOSSIL CLAY MIXED SEDIMENT and CLAY WITH FORAMINIFERS Major Lithologies: This core consists of black to very dark gray (5Y 2.5/1 to 5Y 3/1) CLAY WITH FORAMINIFERS and olive gray to |
| } | } | 2 | | 2 | | | \dashv | | 3/1 | olive (SY 4/2 to 5Y 4/3) NANNOFOSSIL CLAY MIXED SEDIMENT. Color and compositional changes are gradational. |
| } | | 3 | | | | | \dashv | | 5Y 4/2 | General Description: The sediment is slightly bioturbated. Coring disturbance has caused moderate fracturing of the core. |
| | } | 4 | | 3 | ary | | $\dashv\dashv\dashv\dashv\dashv\dashv$ | | 5Y 3/2 | |
| } | | 5 | | 4 | Quaternary | | HHH /// | S | 5Y 4/2 | |
| | } | 6 | | | | } | | | 5Y 4/3 | |
| | | 7 | | 5 | | » » | //////// | | 4/3 | |
| | ~ | 8 | | 6 | | | | | 5Y 3/2 | |
| | } | 9 | | 7 CC | | } | \\\ | М | 5Y 4/2 5Y 2.5/1 | |

| | | SI | ΓE 1014 | | LE | B COR | E | 16X | | CORED 129.7 - 139.3 mbsf |
|------------------------------------|---|-------|------------------|---------|---------------|---------------------------------------|----------------------|--------|--|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | Mary Mary Mary Mary Mary Mary Mary Mary | 3 | | 3 | ne Quaternary | » » » » » » » » » » » » » » » » » » » | | O | 5Y 4/3 5Y 4/2 5Y 5/3 To 5Y 4/3 | CLAY NANNOFOSSIL MIXED SEDIMENT Major Lithology: This core consists of very dark grayish brown to olive (2.5Y 3/2 to 5Y 4/3) CLAY NANNOFOSSIL MIXED SEDIMENT. Color changes are gradational and darker intervals contain greater clay content. General Description: The sediments show slight bioturbation but extensive fracturing makes observation of surface features difficult. |
| 5 10 | 0 5 1 | 6 | | 5 6 | late Pliocene | » » » | HHHHHHHHHHHHHHHHHHHH | М | 2.5Y 3/2 5Y 5/3 5Y 3/2 | |

| | | SI | ΓΕ 1014 | HC | LE | B COR | | 17X | | CORED 139.3 - 148.9 mbsf |
|------------------------------------|---|-------|------------------|---------|----------|---------------|----------|--------|-------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | { | | - | | | } | 1 | | 5Y 3/2 | CLAYEY NANNOFOSSIL OOZE and NANNOFOSSIL CLAY MIXED |
| | } | _ | | 1 | | } }} }} | 士 | | 5Y 4/3 | SEDIMENT |
| 1 / | { | | | | | 3 | <u> </u> | | | Major Lithologies: This core consists of olive (5Y 4/3) CLAYEY NANNOFOSSIL OOZE and |
| { | { | - | | | | | 크 | | 5Y | olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) NANNOFOSSIL CLAY |
| | { | 2_ | | 2 | | | + | | 3/2 | MIXED SEDIMENT. Color and compositional changes are |
| } | { | - | | _ | | }} | 크 | | | gradational. |
| | | 3_ | | | | 33 | 1 | | | General Description: The sediments show moderate bioturbation but extensive fracturing |
| | } | | | | | 33 | 1 | | 5Y 4/3 | makes observation of surface features difficult. |
| > | { | 4_ | | 3 | | 33 | 士 | s | 4/3 | |
| } | } | | | | Pliocene | 33 | 1 | 3 | | |
| } | } | 5 | | | e Plio | | 1 | | | |
| \ | { | | | 4 | late | 3 | | | 5Y 3/2 | |
| } | { | - | | | | } | + | | | |
| } | } | 6 | | | | 3 | 1 | | | |
| | } | - | | 5 | | | + | | 2.5Y 4/4 | |
| | { | 7_ | | 5 | | | + | | 4/4 | |
| | | | | | | } } | 1 | | | |
| } | { | 8_ | | | | \$\$ }} | 1 | | 5Y | |
| } | [{ | | | 6 | | » }} | 1 | | 4/3 | |
| | \ \tag{\tau} | 9 | 777 | | | 3 | 士 | | 5Y | |
| | | 3 | | 7 CC | | 3 | 그 | s M | 4/2 | |
| 0 10 | 0 10 2 | 20 | <u>,-,-,L</u> | | _ | | _ | | | ı |

| | | SIT | TE 1014 | | LE | B COR | | | | CORED 148.9 - 158.6 mbsf |
|------------------------------------|---|-------|------------------|---------|---------------|--|---------|--------|------------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | | S | 5Y 6/3 To 5Y 5/4 | NANNOFOSSIL OOZE WITH CLAY Major Lithology: This core consists of olive gray to pale olive (5Y 4/2 to 5Y 6/3) NANNOFOSSIL OOZE WITH CLAY. Color changes are gradational and darker values correspond to greater clay content. Minor Lithology: |
| | | 3 | | | cene | , | | | 5Y 4/2 | Several thin dark bands of CLAY WITH SILT occur in Sections 4 and 5. General Description: The sediments show slight bioturbation but extensive fracturing makes |
| | | 5 | | 4 | late Pliocene | _ | + | S | 5Y 5/3 | observation of surface features difficult. |
| { | } | | | 5 | | _ | 1 | | 5Y 4/3 | |
| | | 7 | | СС | | | >> | М | 5Y 3/2 | |
| 0 10 - | 10 0 1 | 0 | | | | | | | | |

| | | SIT | TE 1014 | HC | LE | B COR | E ′ | | | CORED 158.6 - 168.1 mbsf |
|------------------------------------|---|-------|------------------|---------|--------------|-----------|---|--------|-------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1_ | | 1 | | | WWWWWWW | | 5Y 5/3 | SILTY CLAY and NANNOFOSSIL OOZE WITH CLAY Major Lithologies: This core consists of gradual alternations between olive (5Y 5/3) NANNOFOSSIL OOZE WITH CLAY |
| | | 2 - | | 2 | | | $\wedge \wedge $ | | 2.5Y 4/2 | and dark grayish brown (2.5Y 4/2) SILTY CLAY. General Description: The sediment is homogenized by XCB coring which has created "artificial" laminations. |
| | \{ | | | 3 | ate Pliocene | | WWW/ | | 5Y 5/3 | |
| | } | 4_ | | | late | | \\\\\\ | | 2.5Y 4/2 | |
| | 3 | 5 | | | | | \W\\ | | 5Y 5/3 | |
| | | J | | 4 | | | \W\W\ | | 2.5Y 4/2 | |
| | James J. | 6 | | 5 | | | WWWWWWW | | 5Y 5/3 | |
| 0 10 0 |) 0 5 1 | 0 | | CC | | | > | M | | |

| | | SIT | E 1014 | HC | LE | B COR | E 2 | 20X | | CORED 168.1 - 177.7 mbsf |
|------------------------------------|----------|-------|------------------|---------|---------------|-------------|---------|--------|----------------------------|--|
| Reflectance (%) (650–700 nm) | suscept. | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | 33 33 | | | 5Y 6/3 | CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY Major Lithologies: This core consists of very dark grayish brown (2.5Y 3/2) NANNOFOSSIL CLAY and pale olive to olive (5Y 6/3 to 5Y 5/3) CLAYEY NANNOFOSSIL |
| | | 3 | | 2 | | » » » | | | 2.5Y 3/2 | OOZE WITH FORAMINIFERS. Color and compositional changes are gradational. General Description: The sediments show slight to moderate bioturbation. |
| | | 4 | | 3 | late Pliocene | } | | | 5Y 5/3 | |
| | | 6 | | 4 | | } | | | 2.5Y 4/2 | |
| | | 7 | | 5 | | | | S | 5Y 5/3 | |
| | ~ | 8 | | 6 CC | | 3 | \\\\ | M | 2.5Y 4/2 2.5Y 3/2 | |
| 0 10 | 0 5 1 | 0 | psb | | | | | IVI | JIZ | 1 |

| | | SIT | ΓE 1014 | HC | LE | B COR | E : | | | CORED 177.7 - 187.3 mbsf |
|------------------------------------|---|-------|------------------|---------|---------------|-----------------|-----------|--------|-------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | { | | | 1 | | } | \forall | | 5Y 3/2 | CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS |
| | | 1_ | | 2 | | * = * | <u> </u> | | 5Y 4/3 | Major Lithology: This core consists of olive (5Y 5/4 to 5Y 4/3) CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS containing about 10%-15% foraminifers. |
| | } | | | 3 | | | | | | General Description: The sediments show slight bioturbation except near the base of the core where bioturbation is moderate. |
| | } | 3 | | | cene | } | 1-1-1-1 | | 0.51/ | Note: A gas expansion void ocurs in Section 5, 80-85 cm. |
| | { | 4 | | 4 | late Pliocene | 3 | | S | 2.5Y 4/4 | |
| } | } | 5 | | | | } | Ī | | | |
| | | | | 5 | | } | - | | 5Y 4/3 | |
| | { | 6 | | | | } }} | | | | |
| | | 7_ | | 6 | | }} }} | | | 5Y 5/4 | |
| 5 10 0 |)) 10 2 | 0 | | 7 CC | | 33 | | М | | |

| | | SIT | E 1014 | HC | <u>LE</u> | B COR | <u>E 2</u> | 22X | | CORED 187.3 - 196.9 mbsf |
|------------------------------------|---|-------|------------------|---------|---------------|--|------------|--------|------------------------------|--|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | } | - | | | | 33 33 33 33 | | | 5Y 5/3 | FORAMINIFER NANNOFOSSIL OOZE WITH CLAY and FORAMINIFER CLAY |
| | | 2 | | 1 | | 3333 | | | 5Y 3/2 To 5Y 3/1 | Major Lithologies: This core consists of very dark gray to dark olive gray (5Y 3/1 to 5Y 3/2) FORAMINIFER CLAY and olive (5Y 5/3) FORAMINIFER NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are gradational. |
| | | 3 | | 2 | late Pliocene | >> >> >> >> >> >> >> >> >> >> >> >> >> | | | 10Y 4/2 | General Description: The sediments are moderately bioturbated. Note: A gas expansion void occurs in Section 3, 127-131 cm. |
| | | 4 | | 3 | | - ** ** ** ** ** ** ** ** ** ** ** ** ** | | | 5Y 5/3 | GCC1011 G, 127 131 GIII. |
| 5 10 | 0 10 2 | 5 | | 4 CC | | ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; | | M | 5Y 4/2 | |

| | | SI | ΓΕ 1014 | HC | DLE | B COR | | | | CORED 196.9 - 206.5 mbsf |
|------------------------------------|---|-------|------------------|---------|---------------|--|---------|--------|-------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | ~~~~~ | | | 2.5Y 3/2 | FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS and NANNOFOSSIL CLAY Major Lithologies: This core consists of olive (5Y 5/4) FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS and dark |
| | | 23 | | 2 | | » » » » » | | | | grayish brown to very dark grayish brown (2.5Y 4/2 to 2.5Y 3/2) NANNOFOSSIL CLAY. Color and compositional changes are gradational. General Description: The sediment is moderately |
| | | 4 | | 3 | cene | ************************************** | | | 5Y 5/4 | bioturbated. |
| | | 5 | | 4 | late Pliocene | - ** | | | | |
| | } | 6_ | | | | } } | | | 2.5Y 4/2 | |
| | | 7 | | 5 | | % % % % | | S | | |
| | ~~~~~~ | 8 | | 6 | | ** ** ** ** ** ** ** ** ** ** ** ** ** | | | 5Y 5/4 | |
| 5 10 | 0 10 2 | 9 | | 7 CC | | }} }} | | M | | |

| | | SIT | E 1014 | | LE | B COR | E 2 | | | CORED 206.5 - 216.1 mbsf |
|--------|---|------------------|------------------|---------|---------------|--|---------|--------|--------------------------------|---|
| (%) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | — | | | 2.5Y 3/2 | CARBONATE CLAY MIXED SEDIMENT Major Lithology: This core consists of very dark grayish brown to olive (2.5Y 3/2 to 5Y 6/3) CARBONATE CLAY MIXED SEDIMENT. Compositional and color changes are gradual. |
| | | 3 | | 3 | late Pliocene | ************************************** | | | 5Y 5/3 To 2.5Y 4/4 | General Description: The sediments are moderately bioturbated. |
| | | 7 - - 8 | | | | }} >> | | | 2.5Y 5/4 | |
| | } | | | 6 | | % % % % | | | 5Y 6/3 | |
| 0 10 0 | 10 2 | _ | | 7 CC | | | | M | 5Y 5/2 | |

| | | SIT | ΓΕ 1014 | | LE | B COR | | | | CORED 216.1 - 225.8 mbsf |
|------------------------------------|---|-------|------------------|--------------|---------------|------------------------------------|---------------------------------------|--------|-------------|---|
| Reflectance (%) (650–700 nm) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | 1 | | 1 | | | · · · · · · · · · · · · · · · · · · · | | 2.5Y 4/2 | NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithology: This core consists of very dark grayish brown to olive (2.5Y 3/2 to 5Y 5/3) NANNOFOSSIL CLAY MIXED SEDIMENT. Color and compositional changes are gradational. Darker colored intervals contain greater clay |
| | | 3 | | 3 | late Pliocene | ** ** ** ** ** ** ** ** ** | \ | | 5Y 5/3 | content. General Description: The sediments are moderately bioturbated. Dark cm-scale color banding is common. Note: Gas expansion voids occur in Section 4, 105-129 cm, and Section 5, 121-137 cm. |
| | | 5 | Void | 4 | | 33 33 33 | | | 2.5Y 3/2 | |
| 5 10 - | 0 0 1 | 7 | Void | 5 6 CC | | | | M | 5Y 4/3 | |

| Reflectance (%) (10-6 SI) W Graphic Lith. (10-6 SI) W Structure 1 Structure 1 Structure 2 |
|---|
| SEDIMENTS Major Lithologies: This core consists of very dark grayish brown to olive (2.5Y 3/2 to 5Y 4/3) NANNOFOSSIL CLAY MIXED SEDIMENTS and pale olive to olive (5Y 6/4 to 5Y 5/3) NANNOFOSSIL OOZE WITH CLAY. Color and compositional changes are gradational. General Description: The sediment is slightly bioturbated. |
| 0 10 0 10 20 M |

| | SIT | ΓΕ 1014 | HC | LE | B COR | E 2 | 27X | | CORED 235.4 - 245.0 mbsf |
|----------------------------------|------|------------------|---------|---------------|----------------------|----------|--------|------------------------|--|
| Reflectance (%) (650–700 nm) Mag | ept. | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 1 | | 2 | | 33 33 33 34 | \vdash | | 5Y 5/3 | NANNOFOSSIL OOZE WITH CLAY and CLAYEY NANNOFOSSIL OOZE WITH CARBONATE Major Lithologies: This core consists of olive (5Y 5/3) NANNOFOSSIL OOZE WITH CLAY |
| | 2 | | 3 | late Pliocene | <pre>3 3 3 3 3</pre> | | | 5Y 4/3 | and olive gray (5Y 4/2) to olive (5Y 4/3) CLAYEY NANNOFOSSIL OOZE WITH CARBONATE. Color transitions are gradational. General Description: This core is extensively fractured and biscuited by XCB coring. It is |
| | } 4 | | 4 CC | | } } | | M | 5Y 4/2 5Y 4/3 | moderately bioturbated. |

| | SI | ΓE 1014 | HC | LE | C COR | | 1H | | CORED 0.0 - 9.5 mbsf |
|---|---------------|------------------|---------|------------|----------------------------|---------|--------|-------------------|--|
| GRAPE Magnetic suscept (g/cm³) (10-6 SI | . # | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 1_ | | 1 | | ;; ;; ;; ;; ;; | wwwwwww | | 2.5Y 4/2 | NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY WITH FORAMINIFERS Major Lithologies: This core consists of grayish brown (2.5Y 5/2) NANNOFOSSIL OOZE |
| | 23 | | 2 | | - » | W.W | | 5Y 4/2 | WITH CLAY and dark olive gray (5Y 3/2) to dark grayish brown (2.5Y 4/2) SILTY CLAY WITH FORAMINIFERS. Color transitions are gradual. General Description: The core is homogeneous within broad color bands, except for rare to locally common distinct burrows. |
| | 4_ | | 3 | Quaternary | > | | | 2.5Y 4/2 | |
| | 5_ - 6_ | | 4 | Quat | } }} | | | 2.5Y 5/2 | |
| | 7 | | 5 | | } & }} | | | 5Y 4/2 | |
| | 9_ | | 7 | | | | М | 5Y 3/2 2.5Y | |
| 1 1.5 0 10 | 20 | 14.4 | | <u> </u> | | ш | IVI | 4/2 | 1 |

| | | SI | ΓΕ 1014 | | LE | C CO | | | | CORED 9.5 - 19.0 mbsf |
|--|---|----------|------------------|---------|------------|---|-------------|--------|------------------------------|--|
| GRAPE density (g/cm ³) | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | | _ | | 1 | | | | | 5Y 3/1 To 5Y 4/2 | SILTY CLAY WITH FORAMINIFERS, NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithologies: This core consists of interbedded very |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 23 | | 2 | | | | | 5Y 4/1 To 5Y 3/1 | dark gray (5Y 3/1) SILTY CLAY WITH FORAMINIFERS, olive gray to dark gray (5Y 4/2 to 5Y 4/1) NANNOFOSSI OOZE WITH CLAY, and NANNOFOSSIL CLAY MIXED SEDIMENT. Color and compositional changes are gradational. General Description: |
| | | 4_ | | 3 | nary | *************************************** | | | 5Y 6/3 | The sediment is homogenous with foraminifers disseminated throughout. |
| } | } | 5_ | 7 | 4 | Quaternary | 33 3 | | | 5Y 3/2 | |
| | | 6_ 7_ | | 5 | | Ø | | | 5Y 5/2 | |
| | | 9_ | | 6 | | ** ** & | | | 5Y 3/2 To 5Y 5/2 | |
| { | (| | | cc | | * | ≥ | M | 5Y 3/1 | † |
| 1.4 1.6 5 | 5 10 1 | 5 | | | | | | | | |

| | SIT | E 1014 | | | D COR | | CORED 0.0 - 6.5 mbsf | | |
|---|-------|---|--|------------|-------------|---------|----------------------|------------------------------|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| } | | | 1 | | | | | 5Y 4/3 | FORAMINIFER CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT |
| | | | 2 | | | | | 5Y 4/2 | Major Lithologies: This core consists of thickly banded dark olive gray (5Y 3/2) FORAMINIFER CLAY and olive gray |
| | 2 | | 3 | | } | | | 4/2 | (5Y 4/2) NANNOFOSSIL CLAY MIXED SEDIMENT. Compositional and color transitions are gradational. General Description: |
| | 3 | | _ | Quaternary | } & & | | | 5Y 3/2 | The core is mostly homogeneous, with rare distinct burrows. |
| | 4 | | 4 | | } | | | 5Y 4/2 | |
| \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | 5 | | 5 | | 3 | | | 5Y 3/2 | |
| \$ | 6_ | | 6 | | 3 | | M | 5Y 3/2 To 5Y 4/2 | |
| 0 5 1 | 0 | <u>} =, = , = = = = = = = = = = = = = = = =</u> | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | | 1 | | ı IVI | | I |

| _ | | SIT | E 1014 | | LE | D COR | $\overline{}$ | | | CORED 6.5 - 16.0 mbsf |
|---|---|-------|---|----------|------------|----------------------------|---------------|--------|----------------------------------|---|
| | Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | } | - | , | | | | | | 5Y 3/2 | SILTY CLAY WITH FORAMINIFERS and NANNOFOSSIL CLAY MIXED SEDIMENT |
| | | 1_ | | 1 | | | | | 5Y 4/2 | Major Lithologies: This core consist of broad, gradational alternations between olive gray (5Y 4/2) to olive (5Y 5/3) NANNOFOSSIL |
| | * | 2 | | 2 | | } } } | | | 2.5Y 3/2 To 2.5Y 4/2 | CLAY MIXED SEDIMENT and dark olive gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) SILTY CLAY WITH FORAMINIFERS. Color transitions are gradational. |
| | > | 3_ | | | | } | | | | General Description: The sediment is mostly homogeneous |
| | } | 4_ | | 3 | | | | | 2.5Y 3/2 | within color bands with distinct burrows only present at color transitions. |
| | } | 5 | | 4 | Quaternary | | | | To 5Y 4/2 | |
| | | 6_ | | | | | | | | |
| | } | - | , , , , , , | 5 | | 3 | | | 2.5Y 3/2 | |
| | { | 7_ | | | | }} | | | 5Y 5/3 | |
| | } | 8 | | | | ** ** ** ** ** | | | 5Y 5/2 | |
| | } | 9 | | 6 | | <pre>33 33 3</pre> | | | 5Y 3/2 | |
| | 10 2 | 0 | | 7 .CC | | | | М | 5Y 4/2 | |

| | SIT | E 1014 | НС | LE | D COR | E (| зн | | CORED 16.0 - 25.5 mbsf |
|---|-------|------------------|---------|------------|-----------|---------|--------|---------------------------------|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 1 | | 1 | | | | | 5Y 4/2 | NANNOFOSSIL OOZE WITH FORAMINIFERS and FORAMINIFER SILTY CLAY Major Lithologies: This core consists of alternations between grayish brown (2.5Y 5/2) to |
| | 2 | | 2 | | | | | 3/2 5Y 3/1 2.5Y 5/2 | olive (5Y 4/3) NANNOFOSSIL OOZE WITH FORAMINIFERS and very dark gray (5Y 3/1) to dark gray (5Y 4/1) FORAMINIFER SILTY CLAY. Color transitions are gradational over 5 to 30 cm. |
| { | 3 | | | | | | | 5Y 4/1 | General Description: The sediments are generally homogeneous, but are only slightly |
| | 4_ | | 3 | | \ | | | 5Y 3/2 | burrowed. |
| } | | | | ary | 3 | | | 5Y 3/1 | |
| } | 5 | | 4 | Quaternary | } }} | | | 5Y 4/2 | |
| | 6 | | | | 33 | | | 5Y 3/1 | |
| | 7 | | 5 | | 3 | | | 5Y 4/3 | |
| \ \ \ \ \ | - | | | | | | | 5Y 3/2 5Y | |
| | 8 | | 6 | | 3 | | | 3/1 | |
| | | | 0 | | 3 | | | 5Y 4/3 | |
| | 9 | | _ | | | | | 5Y 4/1 | |
| } | | | 7 CC | | | > | | 5Y 3/1 | |
| 5 10 1 | 5 | H | UU | ш | | Ш | M | | <u> </u> |

| 5Y ANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS and FORAMINIFER CLAY Major Lithologies: This core is composed of thick, gradual alternation between light gray (6Y 7/1) to olive gray (5Y 5/2) FORAMINIFER NANNOFOSSIL OOZE, dark grayish brown (2.5Y 4/2) to olive gray (6Y 3/2) SEDIMENT WITH FORAMINIFERS, NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS, and dark grayish brown (2.5Y 4/2) to olive gray (6Y 3/2) FORAMINIFER CLAY. General Description: The core is increasingly bioturbated with distinct burrows. 5Y 5/2 To 2.5Y 5/2 To 2.5Y 5/2 To 2.5Y 4/2 5Y 4/2 | | SIT | ΓΕ 1014 | | | D COR | E 4 | 4H | | CORED 25.5 - 35.0 mbsf |
|---|----------|-------|------------------|---------|---------|------------------------|---------|--------|------------|--|
| and FORAMINIFER CLAY Major Lithologies: This core is composed of thick, gradual alternation between light gray (5Y 7/1) to olive gray (5Y 5/2) FORAMINIFER NANNOFOSSIL OOZE, dark grayish brown (2.5Y 4/2) to well of the core is increasingly bioturbated with distinct burrows. 3 | suscept. | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| and FORAMINIFER CLAY Major Lithologies: This core is composed of thick, gradual alternation between light gray (5Y 7/1) to olive gray (5Y 7/2) FORAMINIFER NANNOFOSSIL COZE, dark grayish brown (2.5Y 4/2) to olive gray (5Y 4/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS, and dark olive gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) FORAMINIFER CLAY. General Description: The core is increasingly bioturbated with distinct burrows. 5 | } | | | | | | > | | | |
| 5Y This core is composed of thick, gradual alternation between light gray (SY 7/1) to olive gray (SY 5/2) FORAMINIFER NANNOFOSSIL CDZE, dark grayish brown (2.5Y 4/2) to olive gray (SY 4/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS, and dark olive gray (SY 3/2) to very dark grayish brown (2.5Y 3/2) FORAMINIFER CLAY. General Description: The core is increasingly bioturbated with distinct burrows. 5Y 7/11 5Y 4/2 5Y 4/2 5Y 4/2 5Y 3/1 5Y 4/2 5Y 4/2 5Y 4/2 5Y 3/1 | } | _ | | 1 | | } | ~~ ~~ | | 5Y | SEDIMENT WITH FORAMINIFERS |
| alternation between light gray (5Y 7/1) to olive gray (5Y 5/2) FORAMINIFER NANNOFOSSIL OOZE, dark grayish brown (2.5Y 4/2) to olive gray (5Y 3/2) to olive gray (5Y 4/2) to olive gray | | | | | | ** | | | 5Y | This core is composed of thick, gradual |
| and dark olive gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) to very dark grayish brown (2.5Y 3/2) FORAMINIFER CLAY. General Description: The core is increasingly bioturbated with distinct burrows. 5 7 4/2 5 7 4/2 8 8 6 6 3 3 3/1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | } | 2 | | | | » » | | | | alternation between light gray (5Y 7/1) to olive gray (5Y 5/2) FORAMINIFER |
| and dark olive gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) to very dark grayish brown (2.5Y 3/2) FORAMINIFER CLAY. General Description: The core is increasingly bioturbated with distinct burrows. 5 7 4/2 5 7 4/2 8 8 6 6 3 3 3/1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | } | | | 2 | | \$\$ }} }} | | | | brown (2.5Y 4/2) to olive gray (5Y 4/2) NANNOFOSSIL CLAY MIXED |
| General Description: The core is increasingly bioturbated with distinct burrows. Sy 5/2 To 2.5Y 5/2 To 2.5Y 5/2 To 2.5Y 4/2 Sy 4/2 |) | 3_ | | - | | ,, | - - | | | and dark olive gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) |
| The core is increasingly bioturbated with distinct burrows. Sy S/2 To 2.5Y 5/2 | } | | | 3 | | | | | | |
| 5 3 3 4/2 5 7 4/2 8 4/2 | | 4_ | | | | } | | | | |
| 5 3 3 4/2 5 7 4/2 8 4/2 | } | _ | | | ternary | }} }} | | | To 2.5Y | |
| 5 3 3 4/2 5 7 4/2 8 4/2 | | - | | 4 | Qua | }} }} >> | | | 5Y | |
| 2.5Y 4/2 3 3 4/2 5Y 3/1 5Y 3/1 5Y 3/1 5Y 3/1 8 7 7 7 8 8 M 4/2 | | 6 | | | | | | | 5Y | |
| 2.5Y 4/2 3 3 4/2 5Y 3/1 5Y 3/1 5Y 3/1 5Y 3/1 8 7 7 7 8 8 M 4/2 | } | | | | | \$ } }} | | | 5V | |
| 6 3 5 3/1 5 7 3/1 7 2.5 Y 4/2 M 4/2 | } | 7_ | | 5 | | | | | | |
| 6 3 5 3/1 5 7 3/1 7 2.5 Y 4/2 M 4/2 | | | | | | 3 | i | | | |
| 3/1 9 | } | 8_ | | | | | | | | |
| 9 | { | - | | 6 | | | | | | |
| | } | 9_ | 7.74 | _ | | — ³³ | l i | | | |
| | 0 10 2 | 20 | | CC | | | | М | | |

| | SIT | E 1014 | | LE | D COR | $\overline{}$ | | | CORED 35.0 - 44.5 mbsf |
|---|-------|------------------|---------|------------|--|---------------|--------|---|---|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| } | 1 | | 1 | | | WW | | 5Y 5/2 | CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY Major Lithologies: |
| | 2 - | | 2 | | ** ** ** ** ** ** ** ** ** ** ** ** ** | | | 5Y 4/2 To 5Y 5/2 | This core consists of gradual alterations between very dark gray (5Y 3/1) CLAY WITH FORAMINIFERS and olive gray (5Y5/2 to 5Y 6/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CLAY. Color and compositional changes are transitional. General Description: This sediment is moderately bioturbated. |
| | 4 | | 3 | Quaternary | ** ** ** ** | | | 5Y 6/2 To | |
| } | 6 | | 4 | Quate | } }} }} | | | 5Y 3/2 5Y 3/2 To 5Y 3/1 | |
| } | 7 | | 5 | | | | | 5Y 5/2 | |
| } | 9 | | 6 | | } | | | 5Y 4/2 | |
| 20 0 2 | 10 | | 7 CC | | } } } | · // | M | | |

| | SIT | E 1014 | НС | LE | D COR | E | | | CORED 44.5 - 54.0 mbsf |
|---|-------|------------------|-------------------------|------------|--|---------|--------|--|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 3 | | 1 2 2 3 3 3 5 5 6 6 CCC | Quaternary | ************************************** | W WWWW | М | 5Y 3/2 5Y 4/2 5Y 3/1 5Y 3/2 2.5Y 3/2 To 2.5Y 5/2 5Y 4/2 5Y 4/2 5Y 4/2 5Y 4/2 | FORAMINIFER CLAY WITH SILT and FORAMINIFER NANNOFOSSIL OOZE WITH CLAY Major Lithologies: This core is composed of m-scale alternation of olive gray (5Y 4/2) to grayish brown (2.5Y 5/2) FORAMINIFER NANNOFOSSIL OOZE WITH CLAY and dark olive gray (5Y 3/2) to very dark gray (5Y 3/1) FORAMINIFER CLAY WITH SILT. The boundaries are gradational. Minor Lithology: A 0.5 cm thick layer of FORAMINIFER SAND occurs in Section 4, 110 cm and many pods of FORAMINIFER SAND scatter in Sections 5 and 6. General Description: The core is slightly to moderately bioturbated. |

| | SI | ΓE 1014 | HC | LE | D COR | Ε . | | | CORED 54.0 - 63.5 mbsf |
|---|-------|--|---------|------------|---|---------|--------|------------------|---|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | | Section | Age | Structure | Disturb | Sample | Color | Description |
| \ | _ | 7 4 4 7 4 4 | 1 | | | wwwwww | | 5Y 4/1 | NANNOFOSSIL CLAY MIXED SEDIMENT and CLAY WITH FORAMINIFERS AND SILT Major Lithologies: |
| 3 | | | | | | ~~ ~~ | | 4/2 5Y 3/2 | This core is composed of m-scale alternations of olive gray (5Y 4/2) to grayish brown (2.5Y 5/2) |
| | 2_ | | 2 | | | | | 5Y 4/2 | NANNOFOSSIL CLAY MIXED SEDIMENT and dark olive gray (5Y 3/2) CLAY WITH FORAMINIFERS AND SILT. The boundaries are gradational. |
| | | | 2 | | | | | 5Y 3/2 | |
| | 3_ | | | | | | | 2.5Y 4/2 | Minor Lithology: A thin layer of FORAMINIFER SAND occurs in Section 2, 25 cm. |
| | 4 | | 3 | | | | | 2.5Y 5/2 | General Description: The core is moderately bioturbated in the middle part. |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 5 | | 4 | Quaternary | > > > > > > > > > > > | | | | |
| } | 6 | | | ğ | \$\$ }} }} | | | 5Y 4/2 | |
| } | - | | | | }} }} | | | 5Y 3/2 | |
| { | 7 | | 5 | | 33 | | | 5Y 4/2 | |
| } | - | | | | | | | | |
| | 8_ | | 6 | | | | | 5Y 3/1 | |
| | 9 | | | | _ | | | 0/1 | |
| } | | | 7 | | | | | | |
| | 10 | | СС | | | ≷ | М | 5Y 3/2 | |
| 0 10 2 | 20 | | | | | | | | |

| | SI | TE 1014 | НС | LE | D COR | | | CORED 63.5 - 73.0 mbsf | | |
|---|-------|------------------|----------|------------|---|---------|--------|------------------------|---|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description | |
| } | | | | | | | | 5Y 4/2 | CLAY WITH FORAMINIFERS AND NANNOFOSSILS | |
| } | 1_ | | 1 | | 3 3 3 | | | 2.5Y 4/2 | Major Lithology: This core consists of very dark grayish | |
| { | - | | | | , | | | | brown to olive gray (2.5Y 3/2 to 5Y 4/2) CLAY WITH FORAMINIFERS AND NANNOFOSSILS. Color changes | |
| } | 2_ | | | | } | - | | 2.5Y 3/2 | are subtle and gradational. Minor Lithology: | |
| } | - | | 2 | | }} }} | | | | Thin intervals of FORAMINIFER SAND occur in Section 4 and Section 6. | |
| } | 3_ | | - | | l | | | 5Y | General Description: The sediments are moderately | |
| } | - | | 3 | | 33 33 33 | | | 4/2 | bioturbated. | |
| } | 4_ | | | | 3 | | | | | |
| | 5_ | | | Quaternary | - } | | | 2.5Y | | |
| { | | | 4 | Quate | }} }} }} | i | | 4/2 | | |
| | 6_ | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| } | - | | | | 3 | | | | | |
| | 7_ | | 5 | | | | | | | |
| | - | | \vdash | | } | | | 5Y 4/2 | | |
| | 8_ | | 6 | | _ ~ | | | | | |
| { | | | | | - } | | | | | |
| | 9_ | | 7 | | | | | 5Y 3/2 | | |
| | 10 | | CC | | | i | М | 5Y 3/1 | | |
| 0 10 2 | 20 | | | | | | | | | |

| | SIT | E 1014 | HC | LE | CORED 73.0 - 82.5 mbsf | | | | |
|---|-------|--------|--------------|------------|----------------------------------|---------|--------|------------|---|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | | Section | Age | D COR Structure | Disturb | Sample | Color | Description |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | 1 | | } | | | 10Y 3/1 | CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENTS Major Lithologies: This core consists of very dark gray (10Y 3/1) CLAY WITH FORAMINIFERS and olive to dark |
| | 2_ | | 2 | | 3 | | | 5Y | olive gray (5Y 5/3 to 5Y 3/2) CARBONATE CLAY MIXED SEDIMENTS. Color and compositional changes are gradational. |
| } | = | | | | 3 | | | 4/2 | Canaral Dagarintian |
| \{ | 3_ | | | | } | | | 5Y 5/2 | General Description: The sediments are slightly bioturbated. Zoophycos occur in Section 3. |
| | 4_ | | 3 | | 33 33 33 33 35 35 | | | 5Y 6/2 | |
| } | | | | nary | 3 | | | 5Y 5/2 | |
| { | 5_ | | | Quaternary | | | | 5Y 3/2 | |
| | | | 4 | Qui | | | | 5/2 | |
| | | 33 | | | 3 | | | 5/3 | |
| } | 6 | | | | _ | | | 5Y 4/3 | |
| } | | | 5 | | 3 | | | | |
| (| 7 | | | | } } } | | | 5Y | |
| / | 1 | | L | | 3 | | | 5/3 | |
| | 8 | | 6 | | | | | 5Y 4/2 | |
| { | = | 4 | | | | | | | |
|]] | 9_ | | $oxed{oxed}$ | | | | | 5Y | |
| [} | - | | 7 | | \ \ | | | 5/2 | |
| (| 10 | | cc | | | | М | 5Y 4/2 | |
| 0 10 2 | 20 | | | | | | | | |

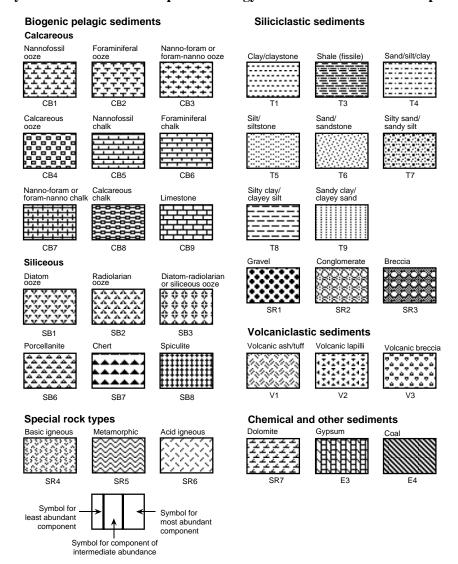
| | SIT | E 1014 | НС | LE | D COR | Ε | | | CORED 82.5 - 92.0 mbsf |
|---|-------|------------------|----------|------------|--------------|---------|--------|-----------|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 1 | 7 | 1 | | | | | 5Y 3/2 | CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENTS Major Lithologies: This core consists of m-scale alternations between dark olive gray to |
| | 2 | 2 | 2 | | } | | | 5Y 5/2 | dark gray (5Y 3/2 to 5Y 4/1) CLAY WITH FORAMINIFERS and olive gray (5Y 5/2 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENTS. Color and compositional changes are gradational. |
| | 3 | | | | 3 | | | | Minor Lithology: A thin layer of QUARTZ FORAMINIFER SAND occurs in |
| { | 4_ | | 3 | | } ••• | | | 5Y 4/2 | Section 3, 125 cm. Several small pods of QUARTZ FORAMINIFER SAND also occur below this interval throughout Section 4. |
| \} | | | | LI | | | | 5Y 4/1 | General Description: The sediments are slightly bioturbated |
| | 5 | | 4 | Quaternary | 33 | | | 5Y | or homogenous. Note: A gas expansion void occurs is Section 1, 45-51 cm. |
| | 7 | 5 | 5 | | | | | 4/2 | |
| | 8 | | | | | | | 5Y 3/2 | |
| | 9 | | 7 | | } }} } | | | 5Y 4/2 | |
| -20 0 2 | 20 | .L7 | <u> </u> | _ | l | | M | <u> </u> | 1 |

| | SI | TE 1014 | | | D COR | | | | CORED 92.0 - 101.7 mbsf |
|---|-------|------------------|------------------|----------------|---|---------|--------|------------------------|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| | 1 | | 1 | | Ø | W | | 5Y 4/2 | FORAMINIFERAL CLAY WITH SILT and NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS Major Lithologies: This core consists of thick alternations between very dark gray (5Y 3/1) to olive gray (5Y 4/2) FORAMINIFERAL CLAY |
| | 2 | | 2 | | А• | | | 5Y 3/2 5Y | WITH SILT and olive (5Y 4/3 to 5Y 5/3) NANNOFOSSIL CLAY MIXED SEDIMENT WITH FORAMINIFERS. Color and compositional changes are gradational. |
| { | 3_ | | | | | | | 4/3 | General Description: Only the olive gray intervals show distinct burrows. There is moderate |
| } | 4 | | 3 } 5Y coring. | | disturbance of the sediments by XCB coring. | | | | |
| \ | 5 | | 4 | 9 2 Quaternary | | | | 5Y 4/3 | |
| | 6 | | | | | | | 5Y 3/2 | |
| } | 7 | | 5 | | | | | 5Y 4/2 | |
| | 8_ | | 6 | | } | | | 5Y 3/1 5Y 4/3 | |
| } | 9 | | 7 CC | | | | М | 5Y 4/2 | |
| 20 0 : | 20 | | , | | · | | 171 | | |

| | SIT | ΓE 1014 | | | D COR | | CORED 101.7 - 111.3 mbsf | | |
|---|-------------|-------------------|------------|------------|--------------------|---------|--------------------------|--|---|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description |
| (10-6 SI) | 3 3 5 6 6 6 | Lith. Void Void | 1 2 3 5 CC | Quaternary | Structure 33 33 3 | SiQ M | San | 5Y 3/1 5Y 4/3 To 5Y 4/2 5Y 3/2 To 5Y 3/1 5Y 4/2 | CLAY WITH FORAMINIFERS and CARBONATE CLAY MIXED SEDIMENT Major Lithologies: This core consists of dark olive gray to very dark gray (5Y 3/2 to 5Y 3/1) CLAY WITH FORAMINIFERS and olive to olive gray (5Y 4/3 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENT. Color and compositional changes are gradational. General Description: The sediments show slight bioturbation or are homogeneous but extensive fracturing makes observation of surface features difficult. |
| 0 10 2 | 20 | | | | | | | | |

| | SI | ΓΕ 1014 | | | D COR | | | | CORED 111.3 - 120.9 mbsf | |
|---|-------|------------------|---------|------------|---------------|---------|--------|----------------------------|---|--|
| Magnetic suscept. (10 ⁻⁶ SI) | Meter | Graphic Lith. | Section | Age | Structure | Disturb | Sample | Color | Description | |
| | 1 | | 1 | | 3 3 | | | 5Y 5/3 2.5Y 4/2 | SILTY CLAY and NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithologies: This core consists of alternations between organic rich dark grayish brown to very dark grayish brown (2.5Y 4/2 to 2.5Y 3/2) SILTY CLAY and olive (5Y 4/3) NANNOFOSSIL | |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 3 | | 3 | Quaternary | » » » » » » » | | Μ. | 5Y 4/3 | CLAY MIXED SEDIMENT. Composition of each lithology varies slightly and changes gradationally. General Description: The sediments are slightly bioturbated but extensive fracturing and biscuiting makes observation of structural feature difficult. | |
| | 5 | | 4 | 3 | | | | \ \ \ \ \ \ | 2.5Y 3/2 | |
| | 6 | | 5 CC | 5 CC | | | | 5Y 4/3 | | |
| 0 10 2 | 0 | | | | | | | | | |

Key to symbols used in the "Graphic Lithology" column on the core description sheets.



Key to symbols used in the "Structures" column on the core description sheets.

| | rilling disturbance rmbols | Sec | dimentary structures cont | • | |
|---------------------------|---|--------------------|---|----------------------------|-----------------------------|
| | Soft sediments | | | | |
| | Slightly disturbed | ∱F | Fining-upward sequence | ♦ | Isolated pebbles/cobbles |
| ļ | Madaratah, diaturkad | ↑ | Interval over which primary sedimentary structure occur | • | Isolated mud clasts |
| <u> </u> | Moderately disturbed | | Planar laminae | | Slump blocks or slump folds |
| > | Highly disturbed | \leq | Wedge-planar laminae/beds | 2 | Contorted slump |
| 0 | | ••• | Graded bedding (normal) | X | Probable compaction |
| 00 | Soupy | ••• | Graded bedding (reversed) | | fracture |
| | Hard sediments | | Sharp contact | // _/ | Microfault (normal) |
| 2 | Slightly fractured | | Gradational contact | 1/2 | Microfault (thrust) |
| | 3 7 | w | Scoured, sharp contact | _ | , |
| 土 | Moderately fractured | ••• | Scoured contact with graded bed | - | Macrofault |
| \geq | Highly fragmented | | Thick color bands (sharp contact) | | Fracture |
| \times | Drilling breccia | **** | Thick color bands (gradational contact) | × | Totally fractured |
| $\stackrel{\sim}{\times}$ | Drilling breccia | | Medium color bands (sharp contact) | X | Vein structures |
| Sec | limentary structures | 3000000 3000000 | Medium color bands (gradational contact) | ₹3 | Color mottles |
| 3 | Burrows, rare (<30% surface area) | | Thin color bands (sharp contact) | <u> </u> | Dolomite nodule/concretion |
| 33 | Burrows, common (30%–60% surface area) | ****** | Thin color bands (gradational contact) | D | Disseminated dolomite |
| 333 | Burrows, abundant (>60% surface area) | | Laminations (mm scale) | P | Pyrite nodule/concretion |
| >>> | Discrete Zoophycos trace fossil | | Individual thick color band | Р | Disseminated pyrite |
| 6 | Discrete Chondrites trace fossil | | Individual medium color band Individual thin color band | G | Glauconite |
| 9 | Sagarites sponge | | Individual lamination | | Concretions/nodules |
| 1 | Gastropods | *** | Wavy lamination | | |
|) \(\frac{1}{} | Other bivalves | -11 | Cross laminae | (Ba) | Barite nodule/concretion |
| | | | Cross stratification | Ва | Disseminated barite |
| 8 | Shell fragments | | Cross bedding Convoluted/contorted bedding | Ca | Calcite nodule/concretion |
| # | Wood framents " | | Flaser bedding | (c) | Carbonate nodule/concretion |
| δ | Fish debris | Δ | Graded interval, normal | (Ch) | |
| | | < | ` | | Chert nodule/concretion |
| | | R | Water escape structure | A∙ | Ash/pumice pods |
| | | \bigcirc | Scour | - A | Ashlayer |