| SIT | E 1026 | HO | LE | A COR | E 1 | <u>H</u> | CORED 0.0 - 5.4 mbsf |
|-----------------------|------------------|------------------|------------|-----------|--|------------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 1 2 3 4 5 | | 1 2 3 4 | Quaternary | | $ - \bullet $ | s s w s | CLAYEY SILT to SILTY CLAY and SAND Major Lithology: SILTY CLAY to CLAYEY SILT with distinctive color banding. Color varies from greenish gray to moderate olive brown. Irregular patches of silt occur locally. Minor Lithology: Olive gray SAND, with bases in Section 3, 126 cm, and Section 4, 68 cm. Internally structureless due to coring disruption. |
| | | СС | | | 2 | | |

SITE 1026

291

Next Chapter

| SIT | E 1026 | HC | LE | A COR | E 2 | Н | CORED 5.4 - 14.9 mbsf |
|---|------------------|---------|--------|-----------|-----------|---------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| - - - 1 - - - - - - - - - - - - - - - | | 1 | | <u>}</u> | 00000 | | CLAYEY SILT to SILTY CLAY, SILT, and SAND Major Lithologies: Greenish gray to light olive gray CLAYEY SILT to SILTY CLAY with color bands, silt laminae. Local mattline and biaturbation. Madium |
| 2 | ***** | 2 | | | 0000 | PP | dark gray SAND, with sharp bases in Section 1, 47 cm, Section 2, 104 cm, Section 4, 109 cm and 134 cm, and Core Catcher, 4 cm. Normally graded, internally structureless, sharp tops. |
| 3 | | | | | • • • | IW S | Minor Lithology: Thin beds of SILT, with bases in Section 3, 24 cm, Section 4, 70 cm, Section 6, 99 cm. |
| 4 | | 3 | | | • - • - • | 1\\\/ | General Description: Thick intervals of sand are soupy. |
| 5 | | 4 | ernary | < | | | |
| 7 <u>-</u> 7 | | 5 | Quate | | | 1) A / | |
| 8 8 9 | | 6 | | | | S | |
| | | 7 CC | | | - 000 | | |

| SII | E 1026 | HO | LE | A COR | <u> </u> | H | CORED 14.9 - 24.4 mbst |
|----------------------------|------------------|---------|----------|-----------|---------------------|--------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| - - - 1 - 1 | | 1 | | | ~~ | S | CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, SAND, and DEBRIS- FLOW DEPOSITS Major Lithology: Light gray to medium gray CLAYEY SILT to SILTY CLAY with prominent |
| 2 | | 2 | | | • • • • • | PP | color bands and local rip-up clasts of mud. Olive gray, fine-grained SAND and SILTY SAND, with sharp bases in Section 1, 64 cm, 76 cm, 102 cm, and 145 cm, Section 2, 91 cm, and 110 cm, Section 3, 9 cm, Section 4, 28 cm, Section 5, 89 cm, Section 6, 23 cm, 78 cm, 101 cm, and 122 cm, Section |
| | ***** | 0 | | NN | - • - • - | | 7, 28 cm, and Core Catcher, 4 cm and 23 cm. Normal size grading, gradational tops. |
| 4 | | 3 | | | - • - • - | | Minor Lithologies: DEBRIS-FLOW DEPOSITS, in Section 2, 0 to 67 cm, and Section 3, 15 to 72 cm. Matrix composed of |
| 5 | | 4 | iternary | | - • - • - • - • - • | PP | either contorted mud with color bands or muddy sand. Clasts are variable in shape and composed of mud with variable degrees of induration. Poorly sorted, olive gray MUDDY SAND, with bases in Section 3, 94 cm and 135 cm, Section 4, 72 cm, 98 cm, and 119 cm, Internally structureless. These |
| - - - 7 | | 5 | Qua | \langle | •••• | | intervals are probably sandy debris- flow deposits. Thin beds of gray SILT, with bases in Section 2, 124 cm, 134 cm and 144 cm, Section 6, 45 cm, 137 cm, and 142 cm. |
| 8 | | 6 | | | | IW | General Description: Interbedded lithologies probably include sand and silt turbidites, debris- flow deposits, and hemipelagic mud deposits. |
| 9 | | 7 CC | | | | | |

| <u>SIT</u> | E 1026 | <u>но</u> | LE | A <u>CO</u> R | <u>E 4</u> | H | CORED 24.4 - 33.9 mbsf |
|------------|------------------|-----------|----------|---------------|----------------|------------------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | 4 | | | • | S | CLAYEY SILT to SILTY CLAY, SILT, SANDY SILT, SAND, MUDDY SAND, and DEBRIS- FLOW DEPOSIT |
| 1 | | 1 | | | 000000 | S | Major Lithologies: Light olive gray CLAYEY SILT to SILTY CLAY with local patches of dark gray. Section 6 contains numerous very thin interbeds of sand. Olive gray SAND, |
| 2 | *** | 2 | | | 000 0 | PP | with bases in Section 1, 19 cm and 61 cm, Section 2, 98 cm, Section 3, 100 cm, Section 4, 54 cm, Section 5, 18 cm, 41 cm, and 123 cm, and Section 6, 15 cm. Some beds are normally graded; thicker beds are internally structureless. |
| 4 | | 3 | | | 000000 | WR ^{PP} | Minor Lithologies: SILT and SANDY SILT, with bases in Section 4, 59 cm, Section 6, 53 cm, 87 cm, and 147 cm, Section 7, 9 cm, 24 cm, and cm, and 62 cm, and 62 cm |
| 5 | | | | | | IW | Catcher, 16 cm. Poorly sorted, internally structureless MUDDY SAND in Section 4, 67 to 80 cm. DEBRIS- FLOW DEPOSIT in Section 4, 100 to 145 cm. Matrix of sand with clasts of |
| 6 | | 4 | ſ | NN | • | PP | moderately indurated mud. General Description: Parts of this core are highly disturbed, with vertical flow-in. Sand-layer thickness may be distorted. |
| 7_ | | 5 | Quaterna | | • • • | | Interbedded lithologies probably represent turbidites, debris-flow deposits, and hemipelagic mud deposits. |
| 8 | | 6 | | | • • • | IW S | |
| 9 | | | | | | S | |
| | ∎ T | ر CC | | | • | | |

| SIT | <u>E 1026</u> | HO | LE | A COR | <u>E 5</u> | 5H | CORED 33.9 - 43.4 mbsf |
|-------|------------------|---------|----------|-----------|-------------|------------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 1 | | 1 | | | 00000000 | | CLAYEY SILT to SILTY CLAY, SILT, and SAND Major Lithologies: Light olive gray CLAYEY SILT to SILTY CLAY with local patches and bands of dark gray. Sections 5 and 7 |
| 2 | | 2 | | | 0 • - 0 0 0 | PP | contain numerous very thin interlayers of silt. Greenish gray SAND, with sharp to erosional bases in Section 2, 12 cm, Section 3, 61 cm, Section 4, 44 cm, 64 cm, and 138 cm, Section 5, 7 cm, 18 cm, 92 cm, 114 cm, 126 cm, and 137 cm, and Section 6, 15 cm, 66 cm, and 127 cm. Normal size grading, |
| 4 | | 3 | ary | | 000 | S | gradational tops, local planar laminae. Minor Lithology: Thin beds of SILT in Section 2, 56 cm, Section 3, 119 cm, Section 5, 31 cm, 39 cm, 57 cm, and 77 cm, Section 5, 94 cm, Section 7, 4 cm, 10 cm, 17 cm, 26 cm, 39 cm, 46 cm, and 53 cm, and |
| 5 | | 4 | Quaterna | | | WR ^{PP} | Core Catcher, 3 cm, 9 cm, and 35 cm, and Sharp bases, normal size grading. General Description: Thick sand beds are soupy and thicknesses probably are distorted. Interbedded lithologies probably |
| 7 | | 5 | | | | | represent turbidites and hemipelagic mud deposits. |
| 8_ | | 6 | | | | IVV | |
| 9 | | 7 CC | | | | | |

| SIT | E 1026 | НС | LE | A COR | E 6 | Н | CORED 43.4 - 52.9 mbsf |
|------------|-----------------------|---------|-----------|-----------|---|----------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | | | | | | CLAYEY SILT to SILTY CLAY, SILT, SAND, and DEBRIS-FLOW DEPOSIT |
| 1 | | 1 | | | ۱ ک | | Major Lithologies: Light olive gray CLAYEY SILT to SILTY CLAY. Generally homogeneous, with local patches and |
| 2 | | 2 | | _Δ | (| IW PP | laminae of silt. Olive gray SAND, with bases in Section 3, 7 cm and 105 cm, Section 4, 15 cm, Section 6, 23 cm, 100 cm, and 123 cm, and Core |
| | <u> <u>Baar</u>aa</u> | Z | | | | | Minor Lithologies: Thin beds of SILT, with bases in |
| 4 | | 3 | y | <u> </u> | | | Section 1, 4 cm, 8 cm, 34 cm, and 141 cm, Section 2, 4 cm and 97 cm, and Section 3, 77 cm. DEBRIS-FLOW DEPOSIT in Section 3, 28 to 42 cm, consists of contorted silt matrix and clasts of moderately indurated mud. |
| 5 | | 4 | Quaternar | | | | General Description: Section 4, 15 to 105 cm, and Section 6, 23 to 80 cm, contain flow-in. Section 1, 93 to 124 cm, is highly deformed mixture of silt and silty clay, probably due to coring disturbance. Thicknesses of soupy sands are |
| 6 7 | | 5 | | | 000000000 | PP | |
| 8 1 1 | | 6 | | | 00~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | S | |
| | | 7 | | | 00 | | |

| SIT | E 1026 | HO | LE | A CORI | Ξ7 | Н | CORED 52.9 - 62.4 mbsf |
|--|---|---------------------------------------|----------------|-----------|---|----------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| ana di ana di ana di ana di ana di ana di ana di ana di ana di ana d | Graphic Lith. With Mithage With Mithage With Mithage With Mithage With Mithage With Mithage Withage With Mithage Withage Withage Withage | 0 1 2 3 4 5 6 | Quaternary Age | | 0 0 - • - ~ - • - • - • - • - • - • - • - • | Samp Samp Samp | Description CLAYEY SILT to SILTY CLAY, SILT, SAND, and DEBRIS-FLOW DEPOSITS Major Lithologies: Light olive gray CLAYEY SILT to SILTY CLAY. Olive gray to greenish gray SAND, with sharp to erosional bases in Section 1, 64 cm, 73 cm, and 147 cm, Section 2, 75 cm, 98 cm, 119 cm, 136 cm, and 145 cm, Section 3, 16 cm, 39 cm, 48 cm, 62 cm, 104 cm, and 135 cm, Section 4, 18 cm, 43 cm, 84 cm, and 120 cm, Section 5, 3 cm, 67 cm, and 133 cm, Section 6, 61 cm and 92 cm, and Core Catcher, 25 cm. Normal size grading, gradational tops. Minor Lithologies: Thin beds of SILT in Section 1, 118 cm, Section 4, 54 cm, 69 cm, and 132 cm, and Section 5, 82 cm, 88 cm, 108 cm. Probable DEBRIS-FLOW DEPOSITS in Section 1, 125 to 145 cm, and Section 2, 7 to 43 cm, with matrix of contorted silt or sandy silt and clasts of moderately indurated mud. General Description: Section 1, 0 to 40 cm, is highly deformed and probably filled in with drilling debris. Parts of Sections 5 and 6 are highly disturbed by coring with obvious flow-in structure. Scattered wood fragments in Sections 2 and 6. |
| | | 7 CC | | | 0000 | | |

| SIT | E 1026 | HC | LE | A COR | E 8 | вH | CORED 62.4 - 71.9 mbsf |
|------------|------------------|---------|----------|-----------|--|----------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | 1 | | | 0000000000 | S | CLAYEY SILT to SILTY CLAY, SILT, and SAND Major Lithology: Light olive gray to brownish gray CLAYEY SILT to SILTY CLAY with numerous very thin interbeds and laminae of silt. |
| 2 3 | | 2 | | | | S PP | Minor Lithologies: Greenish gray SAND, with sharp to erosional bases in Section 2, 21 cm and 78 cm, Section 3, 34 cm, Section 4, 71 cm, and Section 5, 112 cm. Normal size grading. Thin beds of medium light gray SILT in Section 2, 94 cm, 102 cm, 123 cm, and 144 cm, Section 3, 64 cm, 69 cm, 89 cm, and |
| 4 | | 3 | aternary | | | s s | 133 cm, Section 4, 33 cm, 39 cm, 49 cm, 56 cm, 75 cm, 82 cm, 94 cm, 122 cm, 133 cm, and 139 cm, Section 5, 6 cm, 15 cm, 25 cm, 39 cm, and 45 cm, Section 6, 113 cm and 124 cm, Section 7, 27 cm and 32 cm, and Core |
| 5 | | 4 | Qu | | • • • • | | Catcher, 20 cm. Normal size grading, gradational tops. General Description: Sand layer thicknesses likely distorted by flow in core. Interbedded lithologies |
| 7 | | 5 | | | - • • • • • • • • • • • • • • • • • | | probably represent turbidites and hemipelagic mud deposits. |
| 8 | | 6 | | | | PP | |
| 9 | | Ø | | | | PP IW | |
| | | 7 CC | | <u> </u> | | PP | |

| SIT | E 1026 | HO | LE | A CORI | E 9 | Н | CORED 71.9 - 81.4 mbsf |
|------------|------------------|-----------------|------------|-----------|------------|--------------------------------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | Graphic Lith. | 2 3 3 Section 2 | Quaternary | | 0000000 | PP PP WR S IW S | Description CLAYEY SILT to SILTY CLAY, SILT, MUDDY SAND, SAND, and DEBRIS- FLOW DEPOSIT Major Lithologies: Light olive gray CLAYEY SILT to SILTY CLAY, with sporadic very thin beds and laminae of silt and dark gray color bands. Dark greenish gray to light olive gray SAND, with bases in Section 3, 135 cm, Section 4, 106 cm, and Section 5, 28 cm. Minor Lithologies: Thin beds of SILT in Section 3, 29 cm, 32 cm, and 44 cm, and Section 4, 119 cm. Probable DEBRIS-FLOW DEPOSIT in Section 3, 140 cm to Section 4, 67 cm. Contains matrix of muddy sand and clasts of moderately indurated mud, but also disrupted by core flow-in. Beds of poorly sorted, structureless MUDDY SAND, with bases in Section 5, 36 cm and 55 cm. General Description: Parts of this core are highly disturbed. Thicknesses may be distorted, especially in soupy sand. |
| 8 9 | | 6 | | | 0000000000 | | |
| - | | CC | | | 000 | | |

| SITE 1026 | HC |)LE | A COR | E 1 | 0H | CORED 81.4 - 90.9 mbsf |
|-----------------------------|---------|------------|-----------|-----------|--------------------------------|---|
| Graphic Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | Quaternary | | 000000000 | PP S S IW PP IW | CLAYEY SILT to SILTY CLAY, MUDDY SAND, SAND, and DEBRIS- FLOW DEPOSITS Major Lithologies: Light gray CLAYEY SILT to SILTY CLAY with local laminae and very thin interbeds of silt. Medium light gray SAND and light to medium gray MUDDY SAND, with bases in Section 2, 24 cm, 60 cm, and 96 cm, Section 3, 5 cm, 22 cm, and 87 cm, Section 5, 17 cm and 88 cm, and Section 6, 18 cm, 33 cm, 47 cm, 83 cm, 122 cm, and 141 cm. Minor Lithology: DEBRIS-FLOW DEPOSITS, with matrix of contorted muddy sand and clasts of moderately indurated mud, in Section 4, 41 to 92 cm, and Section 5, 20 to 60 cm. General Description: Section 7 and Core Catcher contain flow-in with vertical laminae. Thick sand layers are soupy and likely distorted by flow-in. Wood fragments in Section 4, 142 cm, and Section 5, 116 cm. |

| SIT | E 1026 | HO | LE | A CORI | E 1 | 1H | CORED 90.9 - 100.4 mbsf |
|----------------|------------------|---------|--------|-----------|--|------------------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | 1 | | | 000000000 | S | SILTY CLAY to CLAYEY SILT, MUDDY SAND, and SAND Major Lithologies: Medium dark gray to light olive gray SAND with bases in Section 2, 28 cm, Section 3, 74 and 127 cm, and Section |
| 2 | | 2 | | |) () • • • | WR _{PP} | 5, 112 cm. Structureless and soupy due to coring disturbance. Medium gray to light olive gray SILTY CLAY to CLAYEY SILT. Laminae and thin interbeds of silt highly distorted by coring disturbance. |
| 3 | | | | | • | | Minor Lithology: MUDDY SAND with base in Section 2, 54 cm. Structureless, poorly sorted. |
| 4 | | 3 | ernary | | | | General Description: Most of this core is highly disrupted and affected by severe down-bowing and vertical flow-in of sediment. Thicknesses are not reliable. |
| 5 | | 4 | Quate | | | S | |
| 6 7 | | 5 | | | $\begin{cases} \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $ | PP | |
| 8 | | | | | کے ک | IW | |
| 9 | | 6 | | | 5 | | |
| | | 7 CC | | | \sim | | |

| SIT | E 1026 | HO | LE | A COR | E 1 | 2H | CORED 100.4 - 101.4 mbsf |
|-----------|------------------|---------|---------|-----------|----------|--------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | | ary | | Ι | | CLAYEY SILT, SILT, and SAND |
| 1 | | 1 CC | Quaterr | | | S | Major Lithologies: Medium light gray CLAYEY SILT with thin interbeds of SILT and SAND. |



| SIT | E 1026 | HO | LE | C COR | E 2 | R | CORED 94.2 - 103.8 mbsf |
|-------|------------------|---------|------------|-----------|----------|---|------------------------------------|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | ****** | CC | Ţ | | | S | CLAYEY SILT to SILTY CLAY and SAND |
| | | | Quaternary | | | General Description: Core Catcher contains thin interbeds of light olive gray SILTY CLAY to CLAYEY SILT and fine SAND. | |

| SIT | E 1026 | HO | LE | C CORE | 3 | R | CORED 103.8 - 113.5 mbsf |
|-------|------------------|---------|--------------|-----------|----------|----------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 111 | | 1 CC | | | • | PP PP | CLAYEY SILT to SILTY CLAY and SAND |
| | | | Quaternary – | | | | General Description: Interbeds of greenish gray SILTY CLAY to CLAYEY SILT with silt laminae and SAND. Bedding in Section 1 may be out of stratigraphic order. |

| SIT | E 1026 | НС | LE | C CORE | E 41 | R | CORED 113.5 - 123.1 mbsf |
|-------|------------------|----------------|------------|-----------|----------|---------------------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | 1 <u>CC</u> | Quaternary | | | S PP IW PP | CLAYEY SILT to SILTY CLAY, SILT, and MUDDY SAND General Description: Light olive gray CLAYEY SILT to SILTY CLAY with thin interbeds and laminae of SILT. Coarse, poorly sorted MUDDY SAND, Section 1, 4-8 cm, contains rock fragments up to 2 mm. |

| SIT | E 1026 | HC | LE | C CORE | 5 | CORED 123.1 - 132.7 mbsf | |
|-------|------------------|--------------|------------|-----------|------------------|--------------------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | 1 2 CC | Quaternary | | $\sim \sim \sim$ | PP S IW PP PP | CLAYEY SILT to SILTY CLAY and SILT Major Lithology: Dark greenish gray CLAYEY SILT to SILTY CLAY with color bands, silt laminae, variable induration. Minor Lithology: Thin beds of light olive gray SILT in Section 1, 76 cm, 96 cm, and 118 cm, Section 2, 7 cm, and Core Catcher, 11 cm. |



| SIT | E 1026 | HO | LE | C CORE | 5 7 | CORED 142.3 - 152.0 mbsf | |
|---|------------------|---------|------------|-----------|----------|----------------------------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 1 | | 1 CC | Quaternary | | • | PP ^S S IW | SILTY CLAY to CLAYEY SILT and SAND to SILTY SAND Major Lithology: Greenish gray SILTY CLAY to CLAYEY SILT. Minor Lithology: Thin beds of fine SAND to SILTY SAND in Section 1, 2 cm, 31 cm, 50 cm, 96 cm, 115 cm, and 130 cm, and Core Catcher, 20 cm. Sharp bases, normal size grading, gradational tops. |

| SIT | E 1026 | ΗΟ | LE | C CORE | E 8 | R | CORED 152.0 - 161.6 mbsf |
|---|------------------|---------|------------|-----------|----------|-----------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 111111111111111111111111111111111111111 | | 1 CC | Quaternary | >>> | | PP S IW S | CLAYEY SILT to SILTY CLAY, SILT, and SAND Major Lithology: Greenish gray to light olive gray SILTY CLAY to CLAYEY SILT with local increases in calcium carbonate. Carbonate-rich intervals are lighter in color. Bioturbation and <i>Zoophycos</i> . Minor Lithologies: Thin interbeds of SILT and fine SAND |
| | | | | | | | in Section 1, 100 cm, and Core Catcher, 4 cm and 14 cm. |

| SIT | E 1026 | HC |)LE | C CORE | E 9 | R | CORED 161.6 - 171.2 mbsf |
|------------|------------------|--------------|------------|-----------|----------|-----------------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 1 2 | | 1 2 CC | Quaternary | | ***** | S S PP IW PP | CLAYEY SILT to SILTY CLAY and SANDY SILT to SILT Major Lithology: Greenish gray to medium light gray CLAYEY SILT to SILTY CLAY. Local light color bands, bioturbation, <i>Zoophycos</i> , increases in calcium carbonate. Minor Lithology: Thin interbeds of medium gray SANDY SILT to SILT in Section 1, 62 cm, 83 cm, 105 cm, and 135 cm, Section 2, 20 cm, 50 cm, and 75 cm, and Section 3, 24 cm. Sharp bases, planar laminae, some normal grading. Some beds difficult to recognize because of drill slurry. |

| SIT | E 1026 | HC | LE | C CORE | 10 | R | CORED 171.2 - 180.8 mbsf |
|---|------------------|---|----------------|---|----------|----------------------------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | Graphic Lith. | 1 2 3 Section 2 C Section 2 C C Section 2 C C C C C C C C C C C C C C C C C C | Quaternary Age | Structure $2^{+} \bullet$ $4^{-} \bullet$ | | Ad Ad Samp Ad Samp Ad Samp | Description CLAYEY SILT to SILTY CLAY and SANDY SILT to SILT Major Lithology: Greenish gray CLAYEY SILT to SILTY CLAY. Intervals with higher contents of calcium carbonate are lighter gray. Common silt laminae, bioturbation. Minor Lithology: Thin interbeds of greenish gray SANDY SILT to SILT in Section 1, 116 cm, 135 cm, 138 cm, and 140 cm, Section 2, 7 cm, 104 cm, and 131 cm, Section 3, 42 cm, 59 cm, 67 cm, 115 cm, and 129 cm, Section 4, 11 cm, 66 cm, 85 cm, 101 cm, and 128 cm, Section 5, 18 cm, 54 cm, 107 cm, and 112 cm, Section 6, 23 cm, 45 cm, and 54 cm, and Core Catcher, 12 cm. Plane-parallel laminae and subtle normal size grading. General Description: Large lithoclast in Section 1, 107 to 112 cm. Pyrite nodules scattered in Sections 1, 2, and 3. Section 3 also contains rubble with green friable clasts, 125 to 132 cm and 142 to 150 cm. Interbedded lithologies probably represent thin, fine-grained turbidites and hemipelagic mud deposits. |
| 8 | | ° CC | | | + | PP | |
| | | | | | | | |

| SIT | E 1026 | HO | LE | C CORE | E 1' | 1R | CORED 180.8 - 190.5 mbsf |
|-------|------------------|---------|------------|-----------|----------|--------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | 1 | Quaternary | | | S S PP | CLAYEY SILT to SILTY CLAY and SILT General Description: Medium gray SILTY CLAY to CLAYEY SILT with thin interbeds of SILT in Section 1, 20 cm, 59 cm, and 63 cm. Bioturbation, <i>Zoophycos</i> , silt laminae. |

| SIT | E 1026 | HC |)LE | C CORE | 12 | R. | CORED 190.5 - 200.1 mbsf |
|-------------|------------------|---------|------------|-----------|-------------------|-----------------------------|---|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| 1 1 2 | | 1 | Quaternary | | ××××××××××××××××× | PP _S IW PP | CLAYEY SILT to SILTY CLAY and SILT Major Lithology: Greenish gray to medium gray CLAYEY SILT to SILTY CLAY with local bioturbation, pyrite nodules. Minor Lithology: Thin beds of SILT in Section 1, 22 cm, 34 cm, 53 cm, 74 cm, 96 cm, and 124 cm, and Section 2, 13 cm, 22 cm, 33 cm, 54 cm, 92 cm, and 101 cm. Sharp bases, normal size grading, planar laminae, gradational tops. |

| SITE 1026 | HO | LE | C CORE | 14 | R | CORED 209.7 - 219.3 mbsf |
|---------------------|---------|----------------|---|--|---------------------|--|
| Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| en Graphic Lith. | 2 3 4 | Quaternary Age | Structure $\begin{array}{c c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$ | \/////// FFFFF ××× \//////////////////// | PP PP S PP | Description CLAYEY SILT to SILTY CLAY and SILT Major Lithology: Medium gray to olive gray CLAYEY SILT to SILTY CLAY with local bioturbation, dark color bands, silt laminae, and <i>Zoophycos</i> . Variable content of calcium carbonate. Minor Lithology: Thin interbeds of SILT in Section 2, 36 cm, 98 cm, and 104 cm, Section 3, 67 cm, and Section 5, 44 cm. Planar laminae. General Description: Cluster of pyrite nodules in Section 3, 108 to 110 cm. Small fault with normal offset of silt laminae in Section 1, 102 to 110 cm. High-angle fault with dip- slip slickenlines in Section 4, 54 to 71 cm. |
| 6 | | | Ś | 1 | IW | |
| 2 | 5 | | | XXXXXXXXXX | PP | |
| 8 | 6 CC | | ^ک ک ۱۱۱۳ | × × × | PP | |

| SIT | E 1026 | НС | LE | C CORE | 15 | R | CORED 219.3 - 228.9 mbsf |
|----------------------------|------------------|---------|-----------|-----------------------------|-----------|----------|--|
| Meter | Graphic Lith. | Section | Age | Structure | Disturb. | Sample | Description |
| | | 1 | | | | PP IW | CLAYEY SILT to SILTY CLAY Major Lithology: Medium gray to light gray and greenish gray SILTY CLAY to CLAYEY SILT. Local black discoloration and yellowish gray bands with higher contents of calcium carbonate. Bioturbation and |
| 2 2 3 | | 2 | | »»» • | | PP IW | General Description: Color bands and trace fossils display apparent dips of 15-20° throughout core. Color bands in Section 7, 45 to |
| 4 | | 3 | Ā | ** ^ ** ** ** | \times | PP IW | 63 cm, dip approximately 60°, but top of this interval was removed for IW sample. Small normal faults in Section 1, 117 to 120 cm, and Section 6, 75 to 80 cm. |
| 5 | | 4 | Quaternal | ^ر ۶۶ ۶۶ ۳۳ | **** | S PP | |
| 0 7 | | 5 | | \$ <u></u> } | | IW | |
| 8 | | 6 | | ~~ 1/ | XXXXXXXXX | IW PP | |
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168-1026B-03R-01

UNIT 2: BASALT-HYALOCLASTITE BRECCIA

PIECES 1-12

CONTACTS: None.

PHENOCRYSTS: None in basalt clasts.

GROUNDMASS: Cryptocrystalline in basalt clasts.

VESICLES: None.

COLOR: Basalt fragments: 2.2PB 2.2/0.1 to 9.9B 1.3/0.2; Breccia matrix: 5.2B 1.6/0.1 to 5.7G 2.1/0.4

STRUCTURE: Angular basalt clasts and glass shards (partly to completely altered to various clays \pm carbonate) set in a consolidated clay matrix.

ALTERATION: Basalt clasts are preferentially altered along glassy/variolitic rims (≤3mm) into white–green clay (≤0.25mm thick). In both glass and basalt clasts, the degree of alteration varies concentrically from pale altered rim (massive green clay ± white carbonate to various intermediate bands of granular white-green or grey-blue clays) to fresh core (dark gray to black). Smaller basalt fragments and glass shards are partially to completely altered.

VEINS/FRACTURES: Fractures and veins crossing some larger basalt clasts are infilled by blue-green clay, similar to the matrix material.

ADDITIONAL COMMENTS: All basalt clasts and glass shards are angular, and range from 10mm up to 60mm in length. The rock texture varies from matrix- to clast-supported (abundance of clast from 10-60%, average 40%). The matrix consists of dark green-blue clay. Pieces 9-11 are basalt clasts similar to those in the breccia, leached to a pale browngray color.









Next Chapter