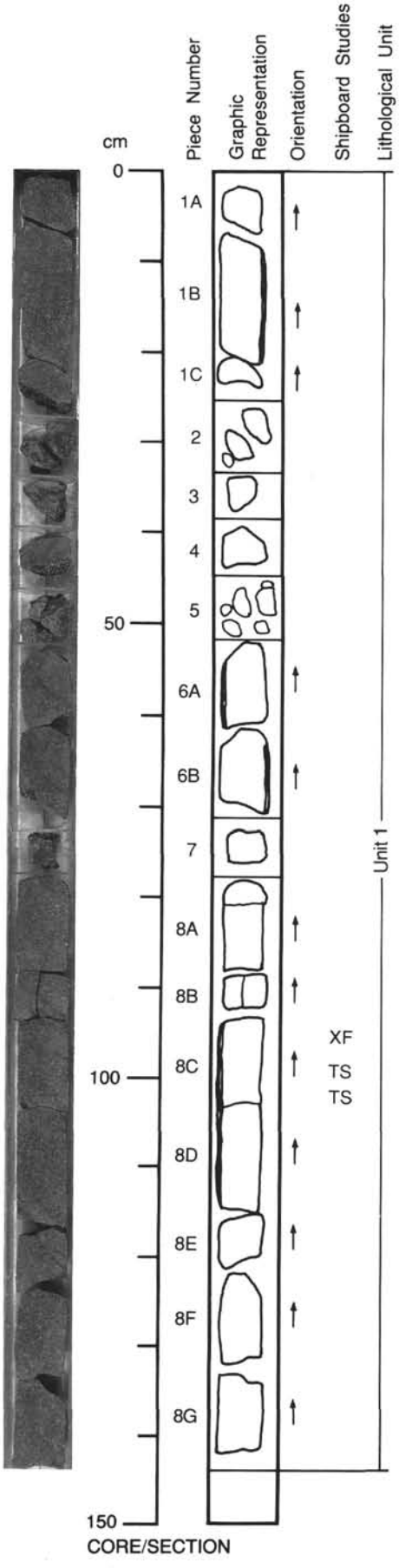


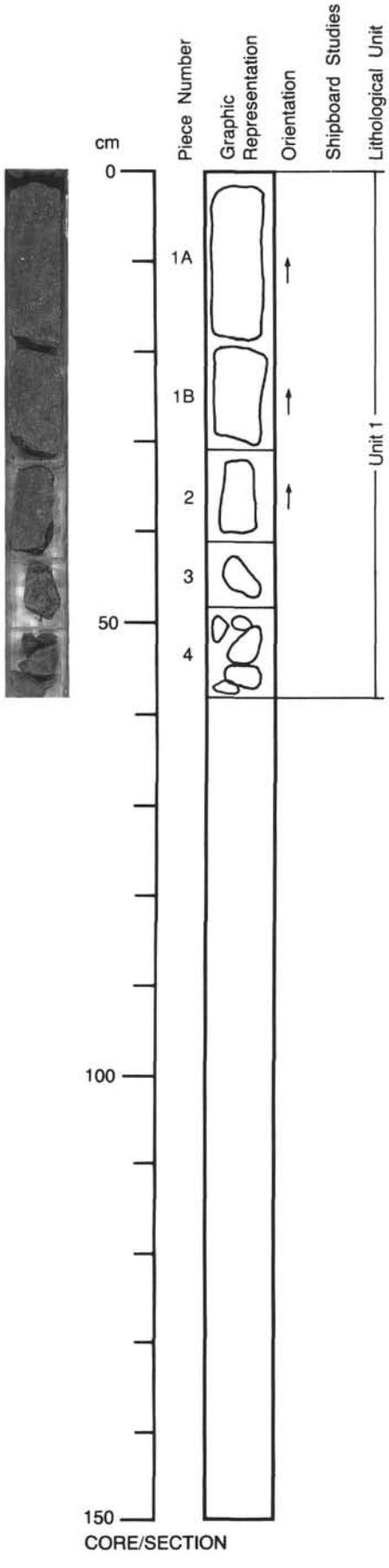
128-794D-1R-1

UNIT 1: HIGHLY PLAGIOCLASE PHYRIC DOLERITE

Pieces 1-8

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 35-40%; 1-5 mm; Euhedral to subhedral.
Pyroxene - 2%; 1-4 mm; Subhedral.
GROUNDMASS: Not discernable (alteration).
VESICLES: None.
COLOR: Gray to greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: 0.1%; 1 mm; 60 degrees; thin fractures filled with green material (epidote and chlorite).

Information on Core Description Forms, for ALL sites, represents field notes taken aboard ship. Some of this information has been refined in accord with post-cruise findings, but production schedules prohibit definitive correlation of these forms with subsequent findings. Thus, the reader should be alerted to the occasional ambiguity or discrepancy.

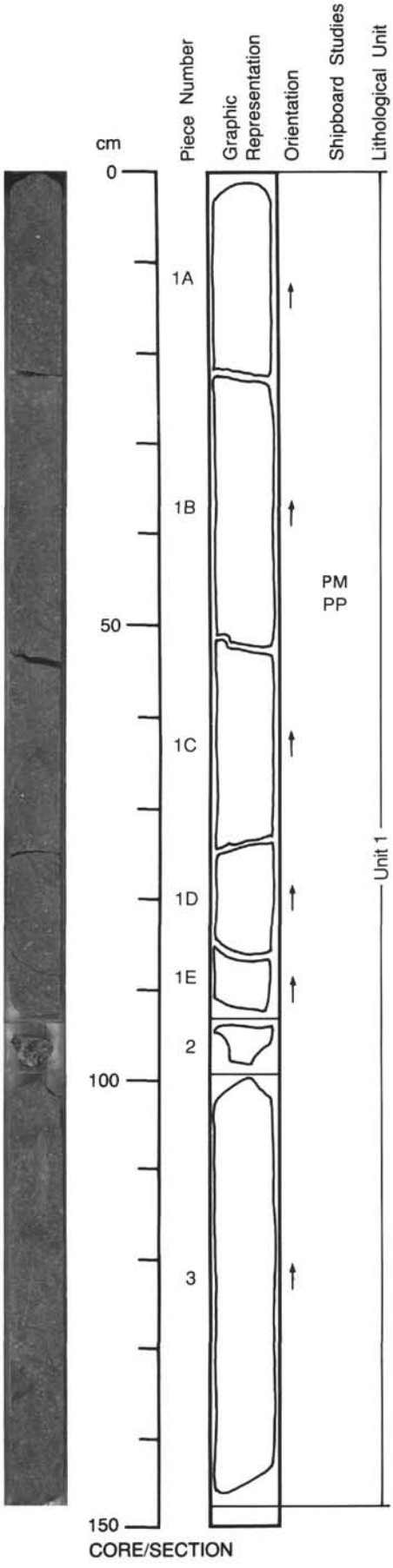


128-794D-1R-2

UNIT 1: HIGHLY PLAGIOCLASE-PYROXENE PHYRIC DOLERITE

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30-35%; 1-5 mm; Euhedral to subhedral.
Pyroxene - 5%; 1-4 mm; Subhedral.
GROUNDMASS: Indiscernable; magnetite 1%.
VESICLES: None.
COLOR: Pale greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite(?), epidote(?).
VEINS/FRACTURES: 0.1%; 0.1 mm; ?; scarce fine fractures filled with green mineral(s); 0.5 cm patches of epidote(?).
ADDITIONAL COMMENTS: Same as Section 1.

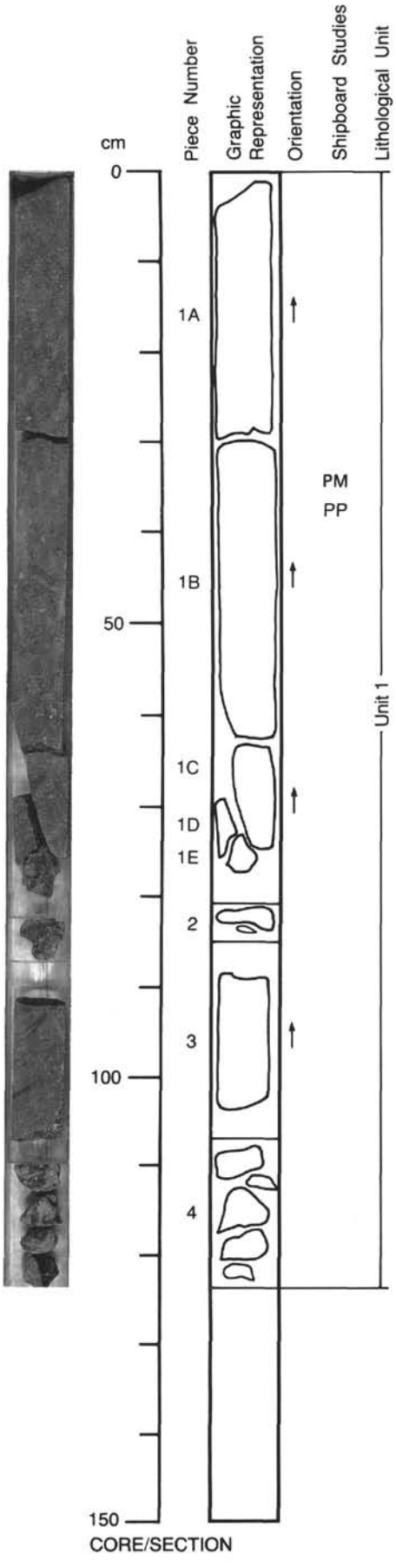


128-794D-2R-1

UNIT 1: HIGHLY PLAGIOCLASE-PYROXENE PHYRIC DOLERITE

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: Uniform distribution of crystals.
Plagioclase - 35%; 1-5 mm; Euhedral to subhedral, tabular to round, altered.
Pyroxene - 10%; 1 mm; Anhedral.
GROUNDMASS: Not discernable.
VESICLES: None.
COLOR: Medium greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Probably Unit 2 of Leg 127.

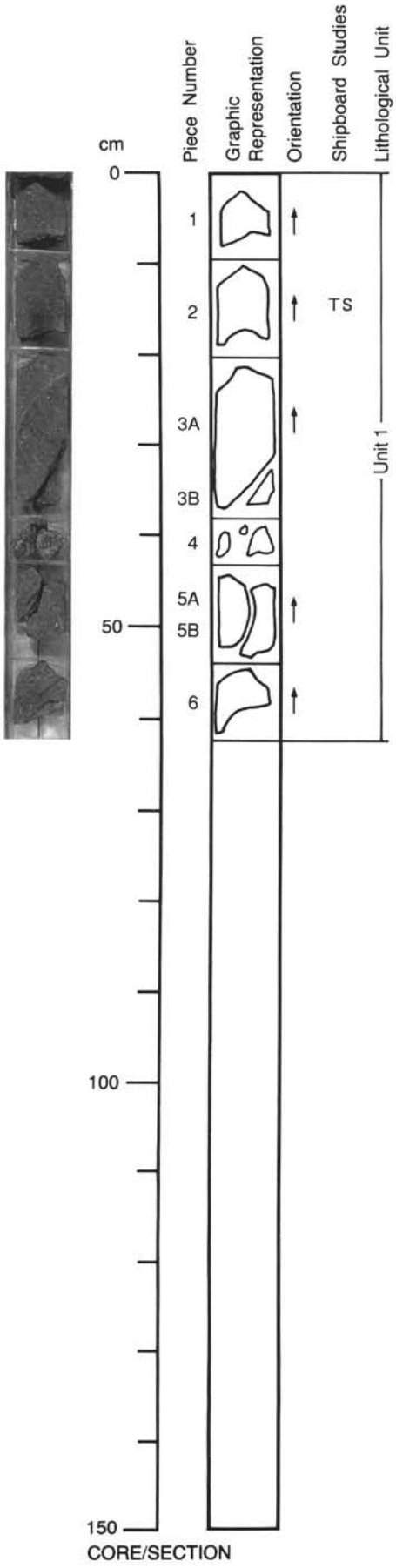


128-794D-2R-2

UNIT 1: HIGHLY PLAGIOCLASE PHYRIC DOLERITE

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS: Uniform distribution of crystals.
Plagioclase - 35%; 1-5 mm; Euhedral to subhedral, tabular to round, altered.
Pyroxene - 10%; 1 mm; Anhedral.
GROUNDMASS: Not discernable.
VESICLES: None.
COLOR: Medium greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Probably Unit 2 of Leg 127.

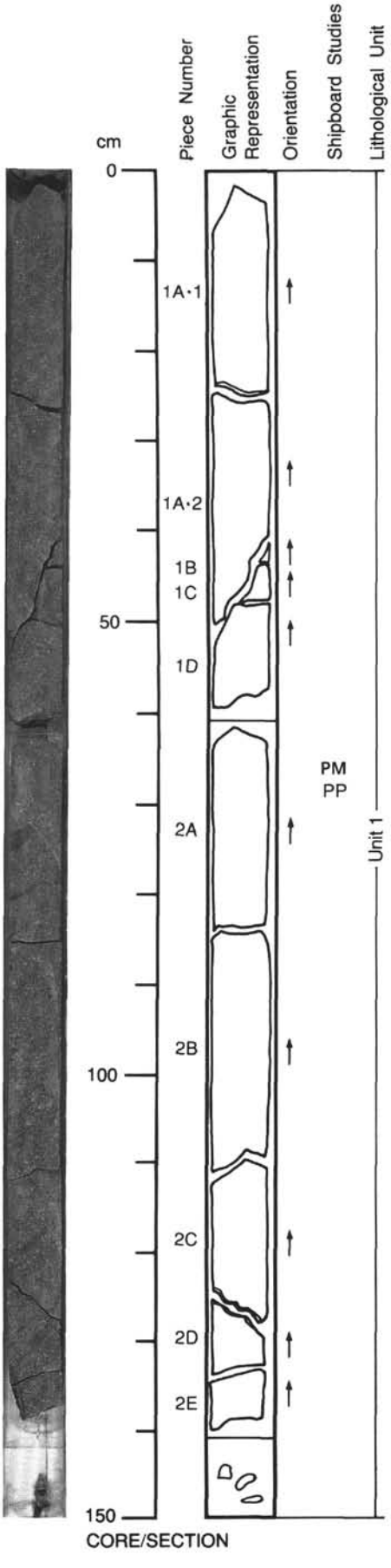


128-794D-2R-3

UNIT 1: HIGHLY PLAGIOCLASE PHYRIC DOLERITE

Pieces 1-6

CONTACTS: None.
PHENOCRYSTS: Uniform distribution of crystals.
Plagioclase - 35%; 1-5 mm; Euhedral to subhedral, tabular to round.
Pyroxene - 10%; 1 mm; Anhedral.
GROUNDMASS: Not discernable.
VESICLES: None.
COLOR: Medium greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Probably Unit 2 of Leg 127.



128-794D-3R-1

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

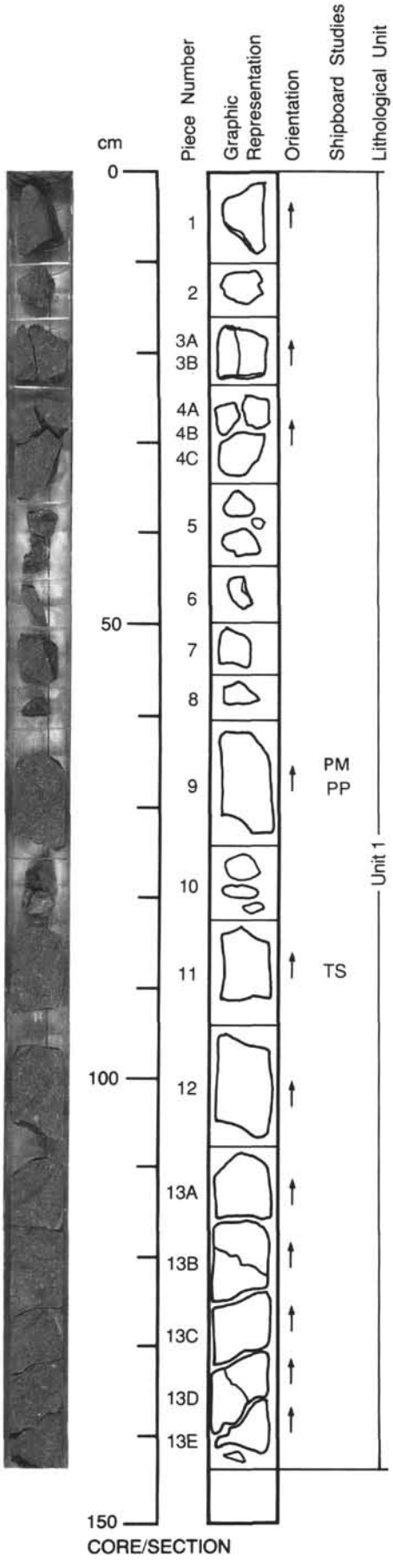
Piece 1

CONTACTS: None.
PHENOCRYSTS: Uniform distribution of crystals.
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round, altered.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not discernable.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: 0.1%; 1 mm; 20 degrees; chlorite, epidote(?), trace pyrite.
ADDITIONAL COMMENTS: Contains 1 mm plagioclase + pyroxene symplectites; Magnetite 1%, anhedral grains.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Piece 2

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: 0.1%; 1 mm; 20 degrees.
ADDITIONAL COMMENTS: Magnetite: 1%, anhedral.



128-794D-3R-2

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Piece 1

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: 1%; 2 mm; 340 degrees; chlorite.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Piece 2

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Piece 3

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: 0.1%; 0.1 mm; 350 degrees; chlorite.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Pieces 4-5

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Piece 6

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: 0.1%; 0.1 mm; 10 degrees; chlorite.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

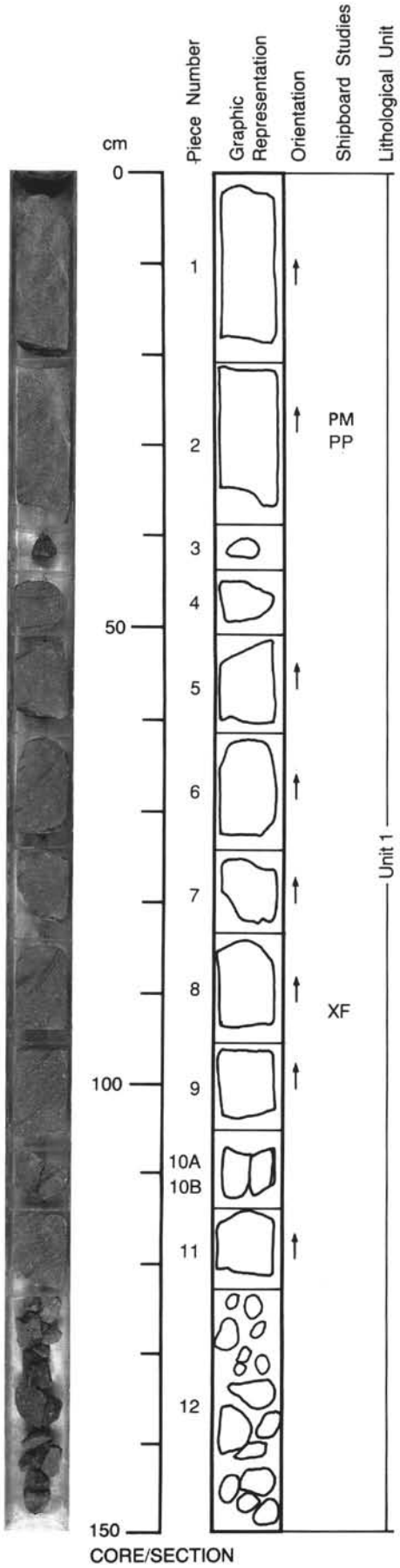
Pieces 7-12

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Pieces 13B

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: 1%; 1 mm; 300 degrees; epidote, trace hematite(?).
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.



128-794D-3R-3

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Pieces 1-10

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

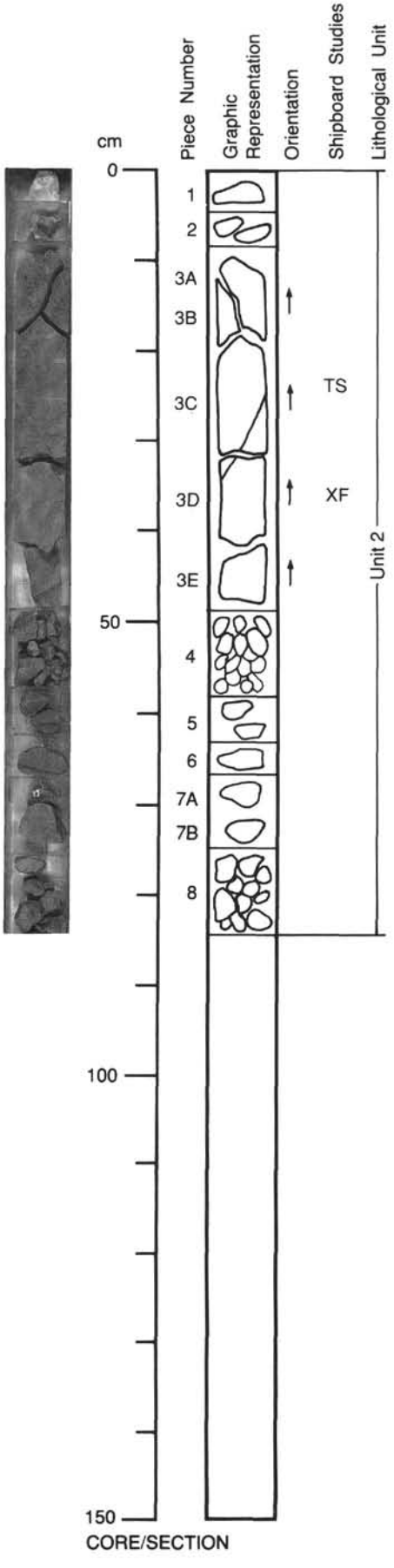
Piece 11

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: 0.1%; 0.1 mm; 290 degrees; quartz(?).
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.

UNIT 1: HIGHLY PLAGIOCLASE - PYROXENE PHYRIC DOLERITE

Piece 12

CONTACTS: None.
PHENOCRYSTS:
Plagioclase - 30%; 1-5 mm; Euhedral to anhedral, tabular to round.
Pyroxene - 10%; 1 mm; Euhedral to anhedral.
GROUNDMASS: Not determined.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Moderate: chlorite, epidote, trace pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Magnetite, 1%, anhedral.



128-794D-4R-1

UNIT 1: CLAY

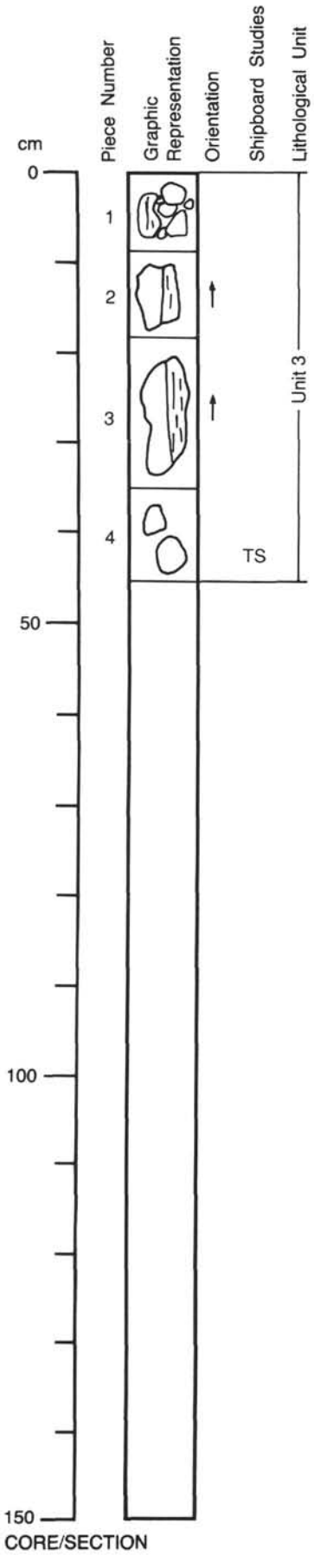
Piece 1

CONTACTS: None.
PHENOCRYSTS: Very fine grained fragment.
GROUNDMASS: Clay and chlorite.
VESICLES: None.
COLOR: Light green.
STRUCTURE: Massive.
ALTERATION: None.
VEINS/FRACTURES: 2-4 cm, curved slickensides.

UNIT 2: PYROXENE MICROPHYRIC DOLERITIC BASALT

Pieces 2-8

CONTACTS: None.
PHENOCRYSTS: Microphenocrysts (Olivine-Pyroxene).
Ol-Pyroxene - 10-15%; 0.5-1.5 mm.
GROUNDMASS: Plagioclase laths and pyroxene in an intersertal to intergranular texture. Feather-like textures.
VESICLES: 3-5%; 0.5-2 mm; irregular; Pieces 5 and 8; location at the top and the base of the unit.
COLOR: Dark green.
STRUCTURE: Massive.
ALTERATION: Highly altered into chlorite and epidote.
VEINS/FRACTURES: 0.1%; 1 mm; 320 degrees; vein of chlorite, epidote and trace pyrite in Piece 3C.

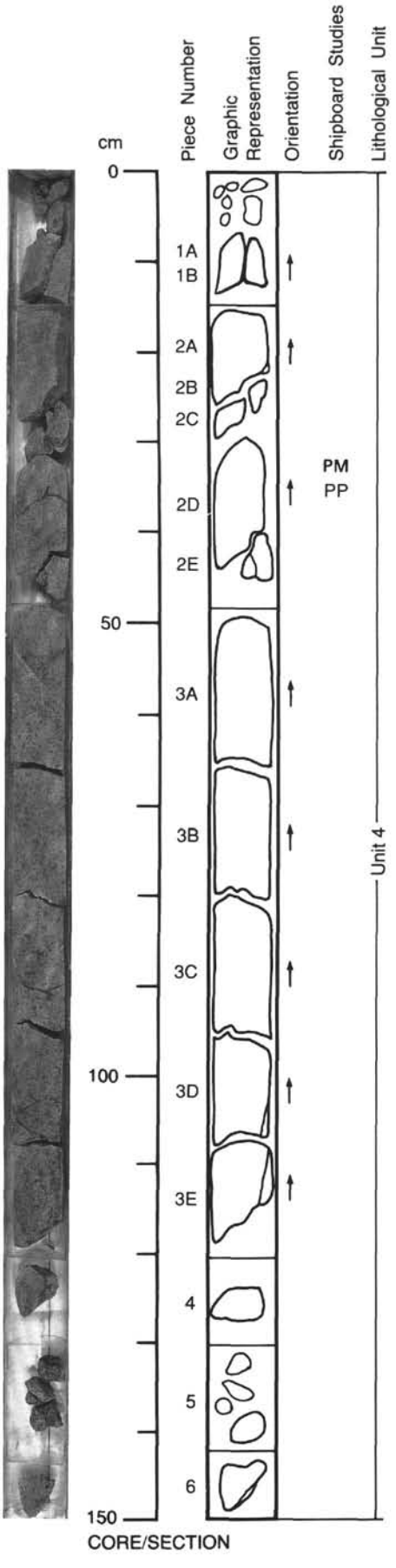


128-794D-5R-1

UNIT 3: APHYRIC DOLERITE

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: Fine to medium grained fragments.
GROUNDMASS: Plagioclase in tablets and anhedral crystals with subhedral pyroxene in an intergranular texture.
VESICLES: None.
COLOR: Dark green.
STRUCTURE: Massive.
ALTERATION: High.
VEINS/FRACTURES: 2%; 10 cm; subvertical; large slickensided fracture in Pieces 1, 2 and 3, normal fault, pitch 75 degrees.



128-794D-7R-1

UNIT 4: MICROPHYRIC PYROXENE DOLERITE

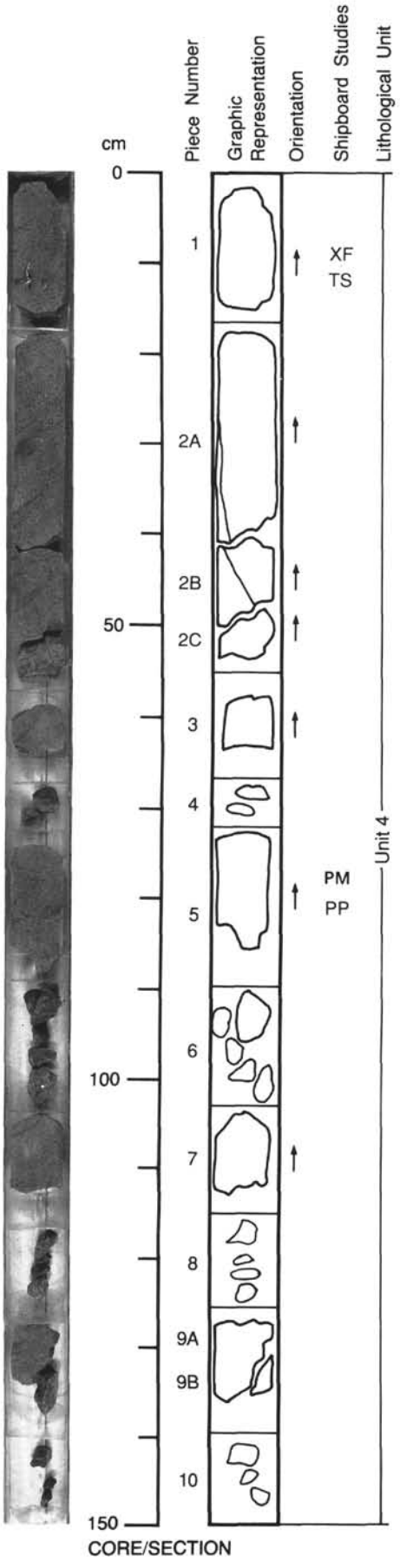
Pieces 1, 2, 4, 5, 6

CONTACTS: None.
PHENOCRYSTS: These are microphenocrysts.
Plagioclase - 10%; 0.1-0.3 mm; Euhedral, homogeneous distribution.
Ol-Pyroxene - 20%; 0.2-0.4 mm; Subhedral, homogeneous distribution.
Magnetite - 5%; 0.05-0.1 mm; Subhedral, homogeneous distribution.
GROUNDMASS: Not discernable.
VESICLES: 1%; 2 mm; round, eliptical; homogeneous distribution; filled with pale green "clay".
COLOR: Medium gray, mottled pale green.
STRUCTURE: Massive.
ALTERATION: Moderate: epidote(?), chlorite(?), secondary albite(?), trace pyrite.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Similar to Unit 1 but phenocrysts are much smaller.

UNIT 4: MICROPHYRIC PYROXENE DOLERITE

Piece 3

CONTACTS: None.
PHENOCRYSTS: These are microphenocrysts.
Plagioclase - 10%; 0.1-0.3 mm; Euhedral, homogeneous distribution.
Ol-Pyroxene - 20%; 0.2-0.4 mm; Subhedral, homogeneous distribution.
Magnetite - 5%; 0.05-0.1 mm; Subhedral, homogeneous distribution.
GROUNDMASS: Not discernable.
VESICLES: 2%; 5 mm; various shapes; homogeneous distribution; filled with pale green "smectite".
COLOR: Medium gray, mottled pale green.
STRUCTURE: Massive.
ALTERATION: Moderate: epidote(?), chlorite(?), secondary albite(?), trace pyrite.
VEINS/FRACTURES: 0.1%; 2 mm; Azimuth 05, Dip 6 degrees "E"; Limonite(?) fill.
ADDITIONAL COMMENTS: Similar to Unit 1 but phenocrysts are much smaller.

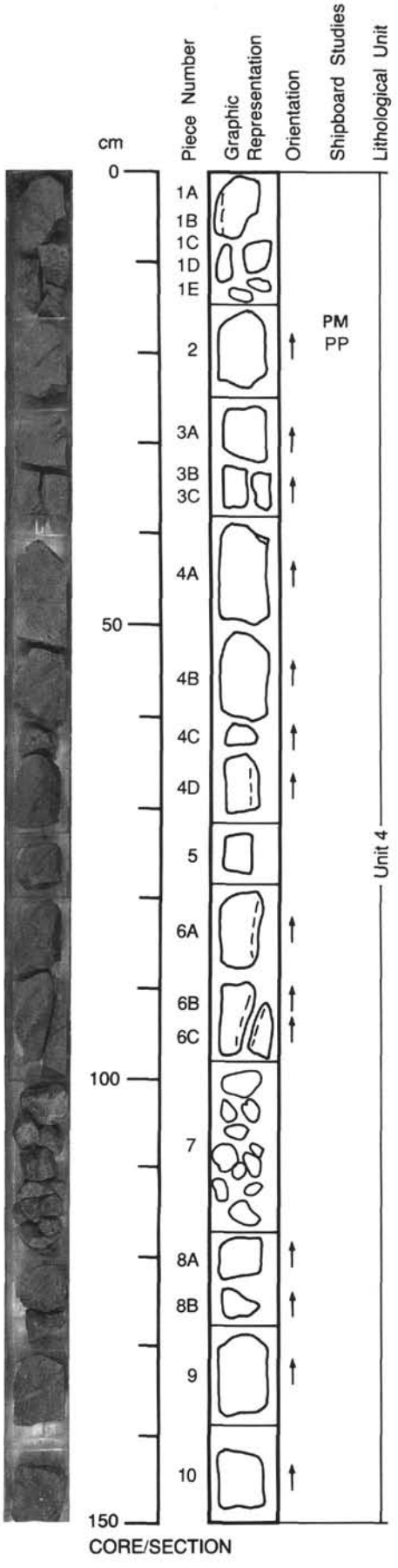


128-794D-7R-2

UNIT 4: MICROPHYRIC PYROXENE DOLERITE

Pieces 1-10

CONTACTS: None.
PHENOCRYSTS: These are microphenocrysts.
Plagioclase - 10%; 0.1-0.3 mm; Euhedral, homogeneous distribution.
Ol-Pyroxene - 20%; 0.2-0.4 mm; Subhedral, homogeneous distribution.
Magnetite - 5%; 0.05-0.1 mm; Subhedral, homogeneous distribution.
GROUNDMASS: Not discernable.
VESICLES: 2%; 1-3 mm; various shapes; homogeneous distribution; filled with pale green "clay".
COLOR: Medium gray, mottled pale green.
STRUCTURE: Massive.
ALTERATION: Moderate: epidote(?), chlorite(?), secondary albite(?), trace pyrite.
VEINS/FRACTURES: 0.1%; 2 mm; Azimuth 355, Dip 70 degrees "E"; Limonite(?) fill.
ADDITIONAL COMMENTS: Similar to Unit 1 but phenocrysts are much smaller.

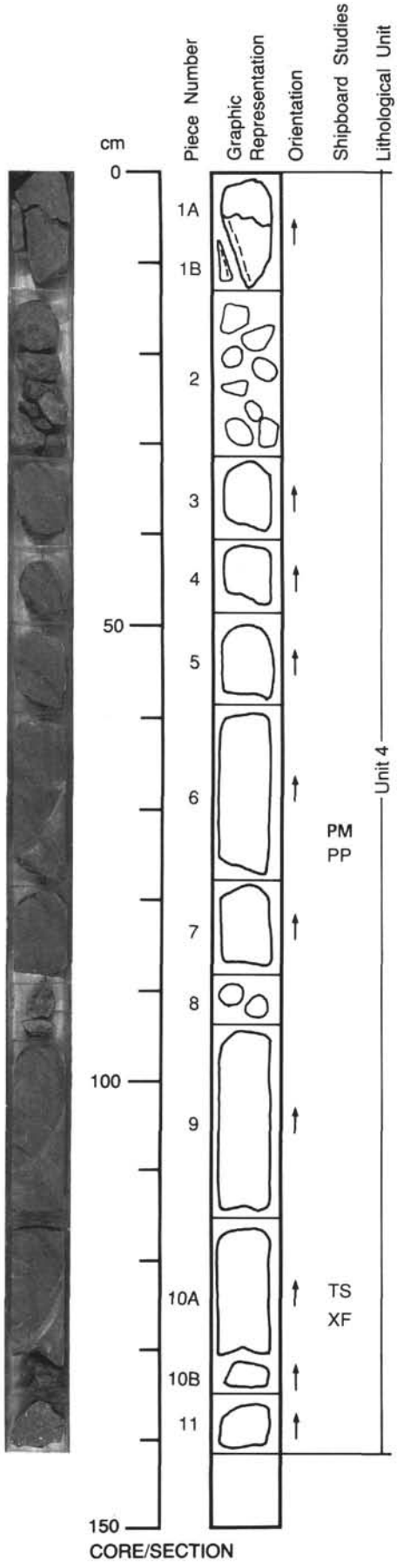


128-794D-8R-1

UNIT 4: APHYRIC TO MICROPHYRIC PYROXENE DOLERITE

Pieces 1-10

CONTACTS: None.
PHENOCRYSTS: These are microphenocrysts; intergranular to intersertal texture.
Plagioclase - 10%; 0.5-1.5 mm; Euhedral to subhedral.
Ol-Pyroxene - 20%; 0.3-0.8 mm; Subhedral.
Magnetite - 8%; 0.05-0.1 mm; Euhedral.
Ilmenite - 2%; 0.2 mm; Euhedral, tabular.
GROUNDMASS: Indiscernable.
VESICLES: ?; 0.5-2 mm; irregular shape; random; filled with pale green "smectite(?)"; decreased abundance in Pieces 8-10.
COLOR: Medium greenish gray, mottled pale green.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: 0.1%; 1 mm(?); Azimuth 10, Dip 90 degrees; Pieces 1A, 4D, 5, 6A, 6B, 6C; oxidized margins.

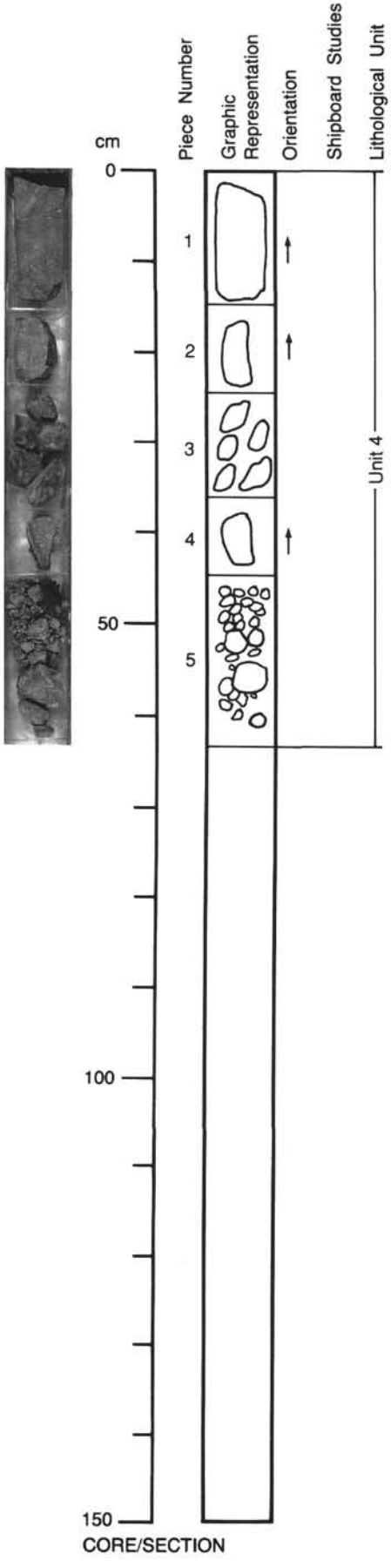


128-794D-8R-2

UNIT 4: APHYRIC TO MICROPHYRIC PYROXENE DOLERITE

Pieces 1-11

CONTACTS: None.
PHENOCRYSTS: These are microphenocrysts; intergranular to intersertal texture.
Plagioclase - 10%; 0.5-1.5 mm; Euhedral to subhedral.
Ol-Pyroxene - 20%; 0.3-0.8 mm; Subhedral.
Magnetite - 8%; 0.05-0.1 mm; Euhedral.
Ilmenite - 2%; 0.2 mm; Euhedral, tabular.
GROUNDMASS: Indiscernable.
VESICLES: Rare; <0.5 mm; irregular shape; random distribution; found only in Pieces 1A & B; absent in Pieces 2-11; filled with pale green "smectite(?)".
COLOR: Medium greenish gray, mottled pale green.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: 0.1%; <0.5 mm; subvertical; Pieces 1A, B only; rimmed with iron oxide.
ADDITIONAL COMMENTS: Same as Section 1.

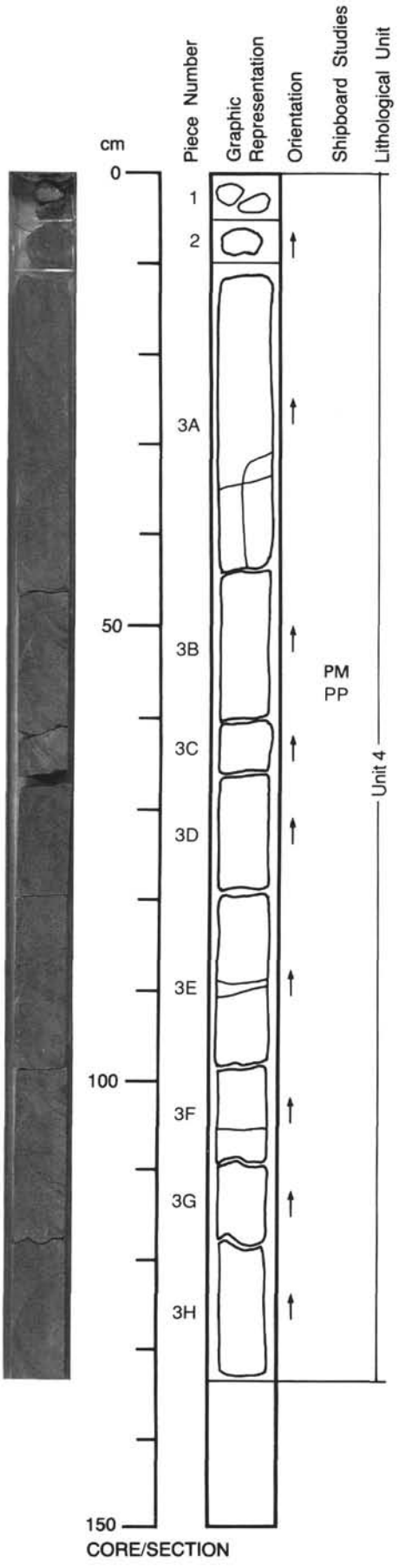


128-794D-8R-3

UNIT 4: APHYRIC TO MICROPHYRIC PYROXENE DOLERITE

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: These are microphenocrysts; intergranular to intersertal texture.
Plagioclase - 10%; 0.5-1.5 mm; Euhedral to subhedral.
Ol-Pyroxene - 20%; 0.3-0.8 mm; Subhedral.
Magnetite - 8%; 0.05-0.1 mm; Euhedral.
Ilmenite - 2%; 0.2 mm; Euhedral, tabular.
GROUNDMASS: Indiscernable.
VESICLES: None.
COLOR: Medium greenish gray, mottled pale green.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Same as Section 2.

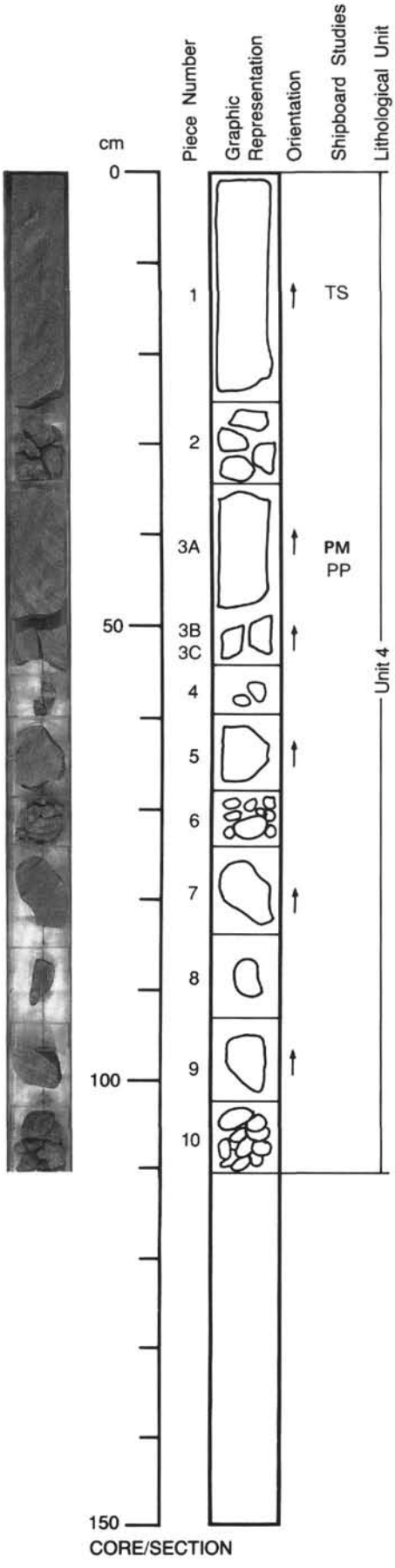


128-794D-9R-1

UNIT 4: APHYRIC DOLERITE

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Plagioclase 0.6-1.5 mm; olivine-pyroxene 0.5-1 mm; magnetite; intergranular texture.
VESICLES: Rare; 0.3-0.6 mm; irregular; random distribution; Piece 3A has very rare 1-2 mm round vesicles filled with pale green mineral or calcite.
COLOR: Greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: 0.1%; 0.1-0.3 mm; ?; filled with dark green mineral(s) - chlorite(?), epidote(?).

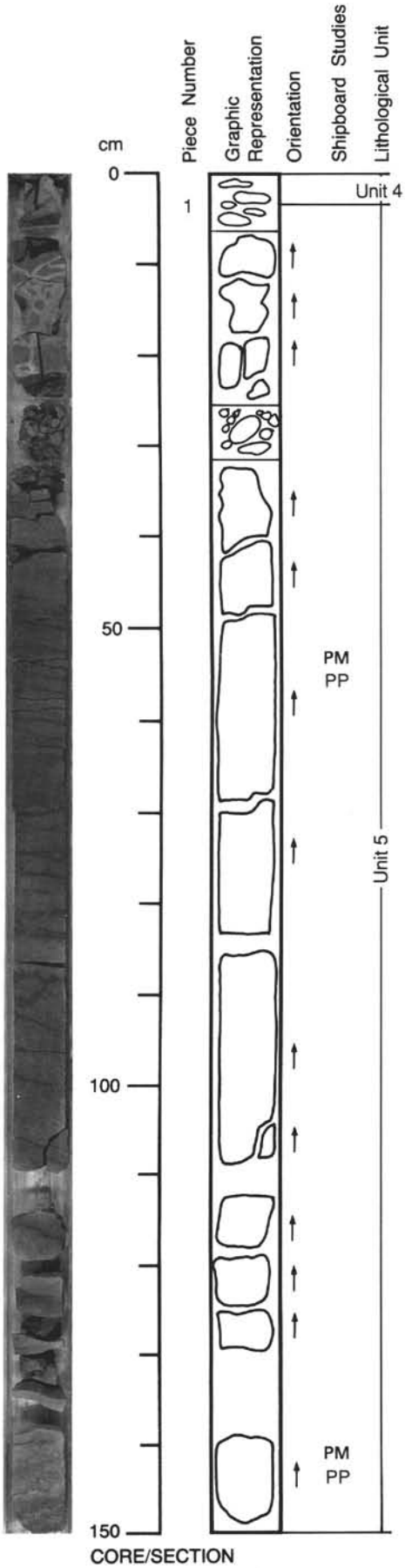


128-794D-9R-2

UNIT 4: APHYRIC DOLERITE

Pieces 1-10

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Plagioclase 0.6-1.5 mm; olivine-pyroxene 0.5-1 mm; magnetite.
VESICLES: Rare; 0.3-0.6 mm; irregular; random distribution; filled with pale green mineral(s).
COLOR: Greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Same as Section 1.

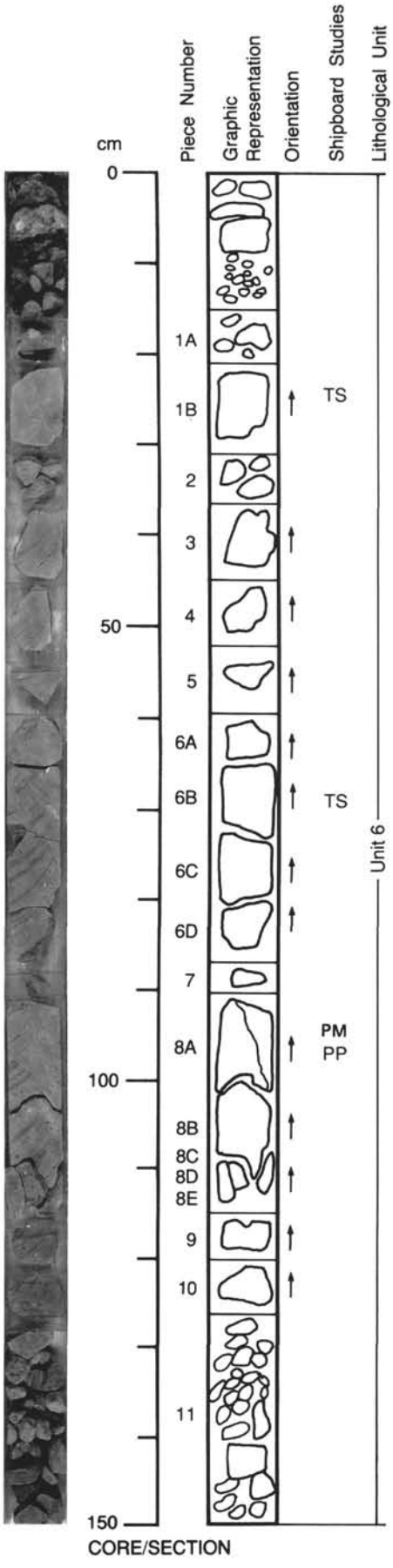


128-794D-10R-1

UNIT 4: APHYRIC DOLERITE

Piece 1

CONTACTS: In rubble (one piece of aphyric dolerite).
PHENOCRYSTS: None.
GROUNDMASS: Plagioclase 0.6-1.5 mm; pyroxene 0.5-1 mm; magnetite.
VESICLES: None seen (only one small piece present).
COLOR: Greenish gray.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Same as Core 9; remainder of core is sediment (=Unit 5).



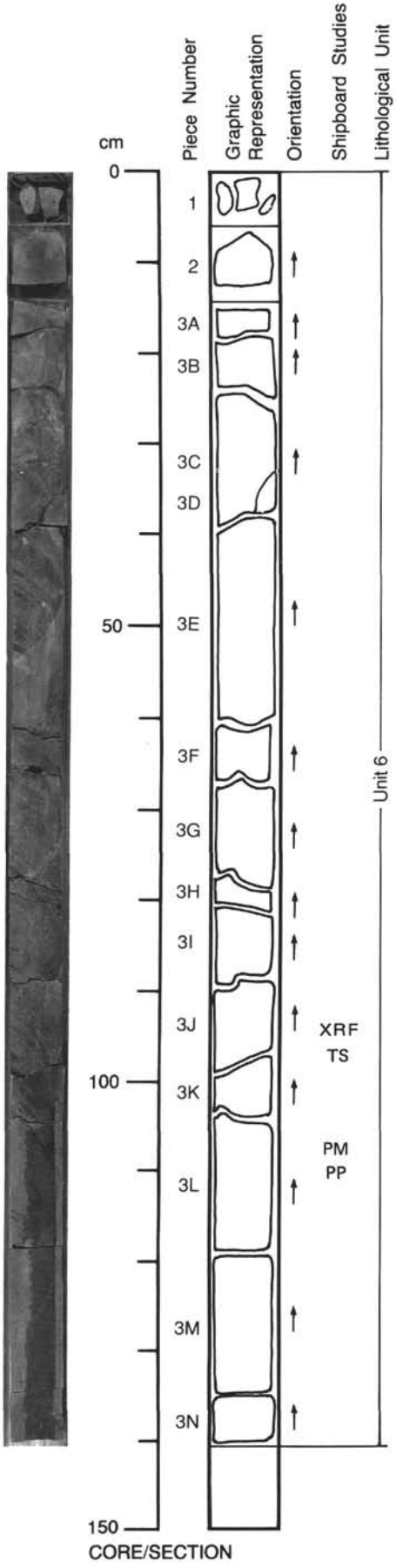
CORE/SECTION

128-794D-10R-2

UNIT 6: APHYRIC DOLERITIC BASALT

Pieces 1-11

CONTACTS: In rubble at approximately 15 cm.
PHENOCRYSTS: None (or not recognizeable because of alteration).
GROUNDMASS: Indiscernable because of alteration except for about 1% magnetite 0.2 mm.
VESICLES: 1%; 0.3-3 mm; irregular to oval; patchy; unfilled 0.3-3 mm in Pieces 1-6A; filled with green "smectite(?) in Piece 6A; large 5x8 mm filled with quartz(?) & calcite in 6A & B.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: High; green "smectite(?)" and sericite(??); trace pyrite.
VEINS/FRACTURES: 0.1%; 1 mm; Azimuth 340, Dip 85 degrees "W"; filled with chlorite.
ADDITIONAL COMMENTS: Appears to be a flow; sediment at top of section is not baked but does contain slickensides so contact may be displaced.

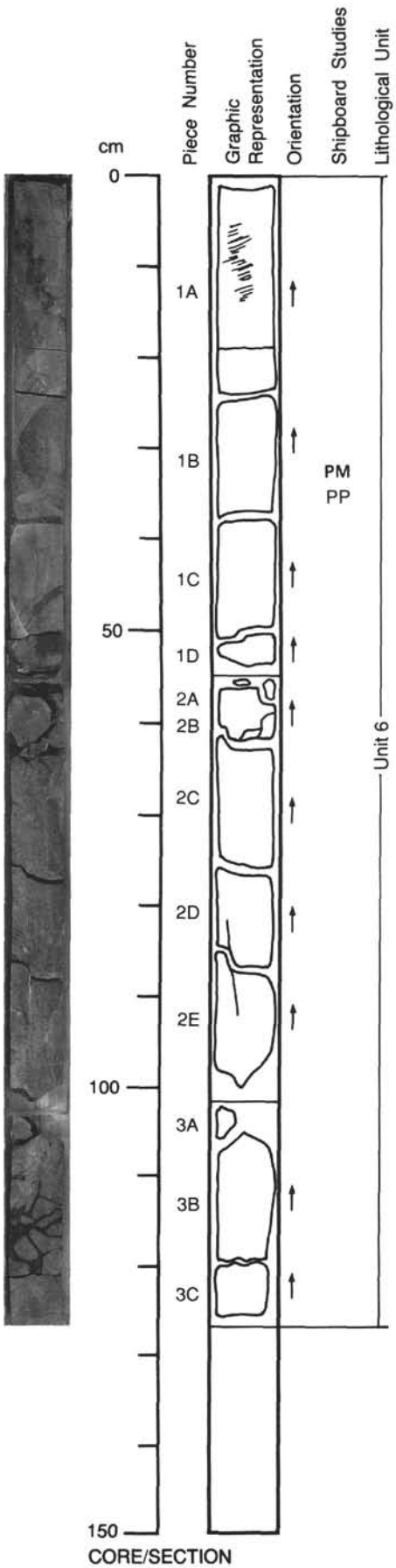


128-794D-11R-1

UNIT 6: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: None discernable because of alteration.
GROUNDMASS: Not discernable because of alteration except for magnetite, ~0.02 mm, 1%.
VESICLES: Rare; 1-2 mm; ?; random distribution; filled with soft white mineral.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: High: green "smectite" & sericite(??); magnetite oxidized to hematite from 130 cm adjacent to fracture seen in Section 2.
VEINS/FRACTURES: None (but influence from fracture in Section 2 seen).
ADDITIONAL COMMENTS: Piece 3 continues as 1A-D in Section 2.

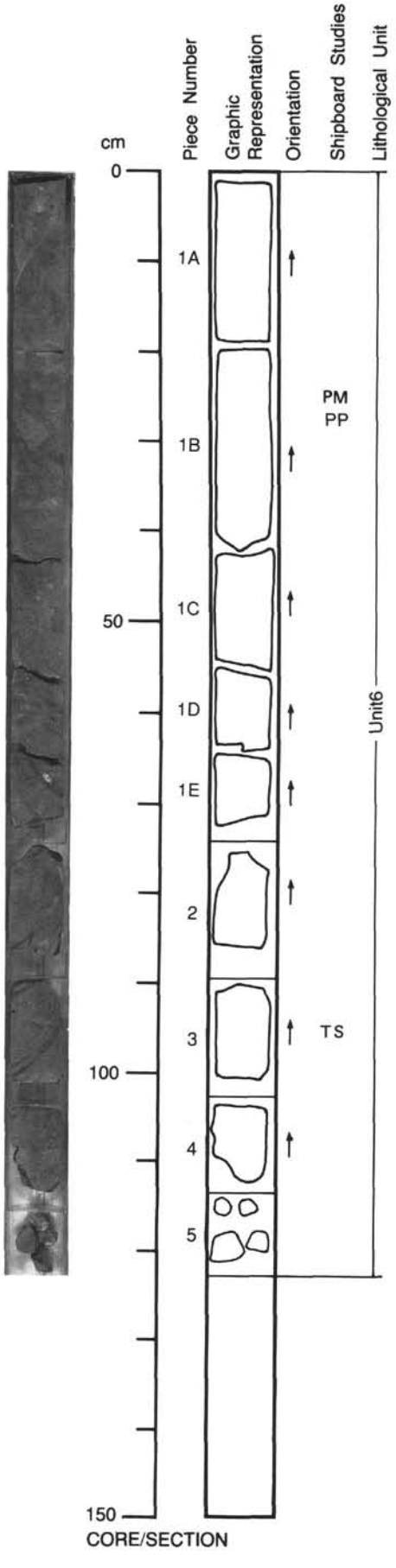


128-794D-11R-2

UNIT 6: APHYRIC BASALT

Pieces 1-3

CONTACTS: None.
PHENOCRYSTS: None discernable because of alteration.
GROUNDMASS: Not discernable because of alteration except for magnetite, ~0.02 mm, 1%.
VESICLES: Rare; 1-2 mm; ?; random distribution; filled with green "smectite" & soft white mineral.
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: High: green "smectite" & sericite(??); magnetite oxidized to hematite within 5 cm of fracture in 1A.
VEINS/FRACTURES: Piece 1A: parallel to saw cut (Azimuth ?, Dip 0), filled with dark. chlorite; Piece 2D: 0.6 mm, Azimuth 340, Dip (?), filled with dark chlorite(?); 0.5 mm, Azimuth 90, Dip 90 degrees, filled with calcite (XRD); Piece 2E: 1 mm, Azimuth 0, Dip (?), filled with soft white mineral.
ADDITIONAL COMMENTS: Pieces 1A-D are continuous with Piece 3 in Section 1.

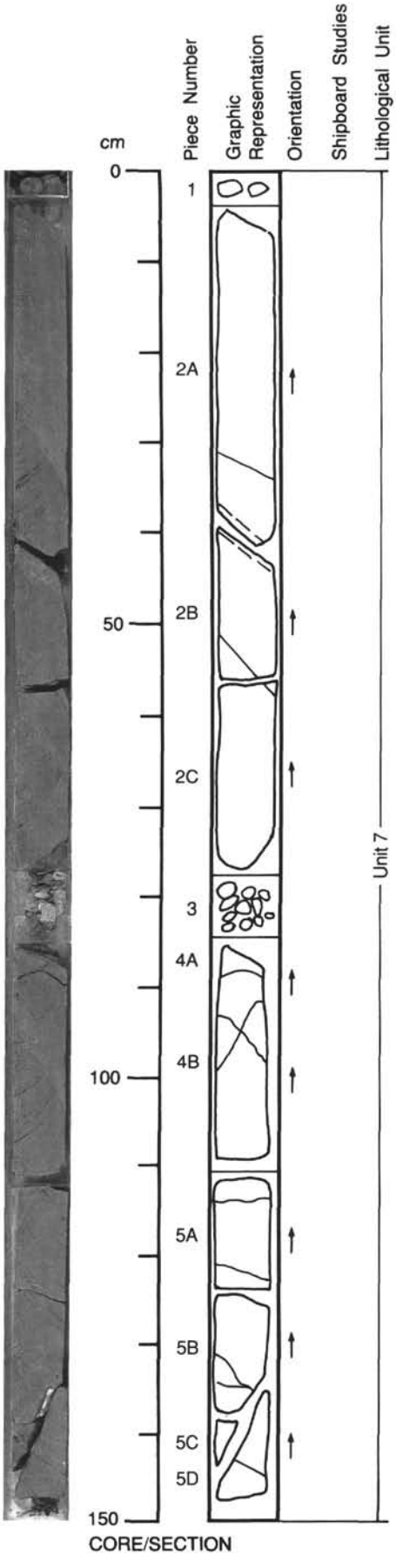


128-794D-11R-3

UNIT 6: APHYRIC BASALT

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: None discernable because of alteration.
GROUNDMASS: Not discernable because of alteration except for magnetite, ~0.02 mm, 1%.
VESICLES: Rare; 1 mm; ?; random distribution; Piece 1E: 1.3 x 0.5 cm vesicle filled with "smectite", soft white mineral & marcasite (bladed; Piece 3: 3 vesicles aligned across core, 3-6 mm, filled with green "smectite".
COLOR: Medium gray.
STRUCTURE: Massive.
ALTERATION: High: Green "smectite" & sericite(?).
VEINS/FRACTURES: Piece 4: 0.2 mm, Azimuth 0, Dip (?); 0.2 mm, Azimuth 90, Dip 0 degrees.
ADDITIONAL COMMENTS: Same as Sections 1 & 2.

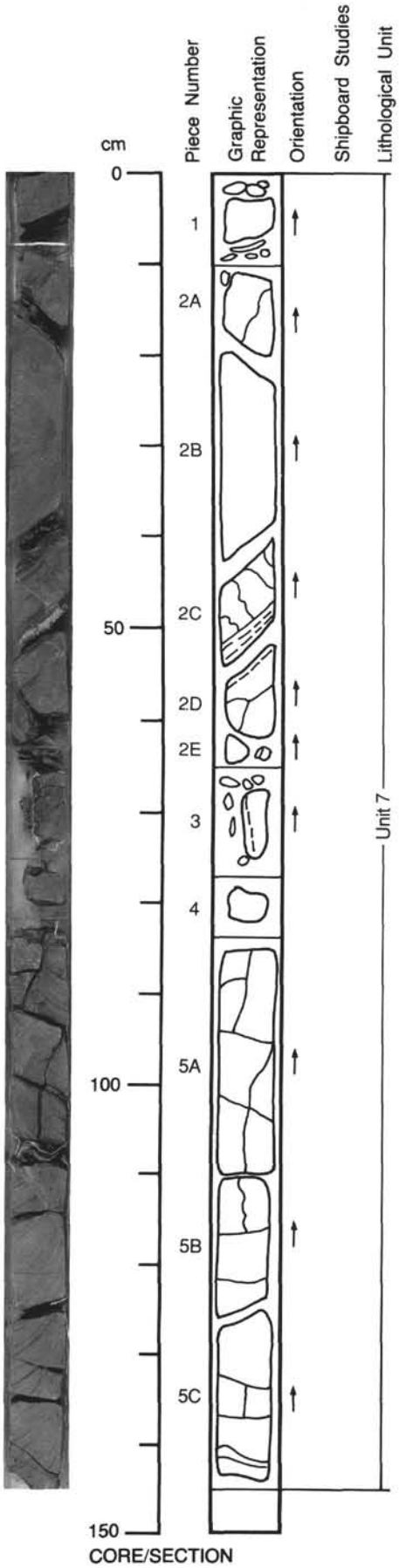


128-794D-12R-1

UNIT 7: APHYRIC DOLERITE

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Glomerophyric aggregates of 1.5-2 mm plagioclase laths.
GROUNDMASS: Microcrystalline, intergranular texture; plagioclase 40%, 0.3-0.6 mm, subhedral; pyroxene 40%, 0.3-0.5 mm, subhedral; magnetite 10%, 0.05-0.2 mm, euhedral to subhedral; olivine pseudomorphs(?) Pieces 5C-D: slight increase in grain size.
VESICLES: None.
COLOR: Dark grayish green.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: Large oblique veins (Azimuth 20, 80, 295 degrees), 6-15 mm, filled with talc-chlorite (XRD) on borders and calcite (by XRD but looks like gypsum!) in center; fractures with same orientations; Piece 3 is debris of a large vein.

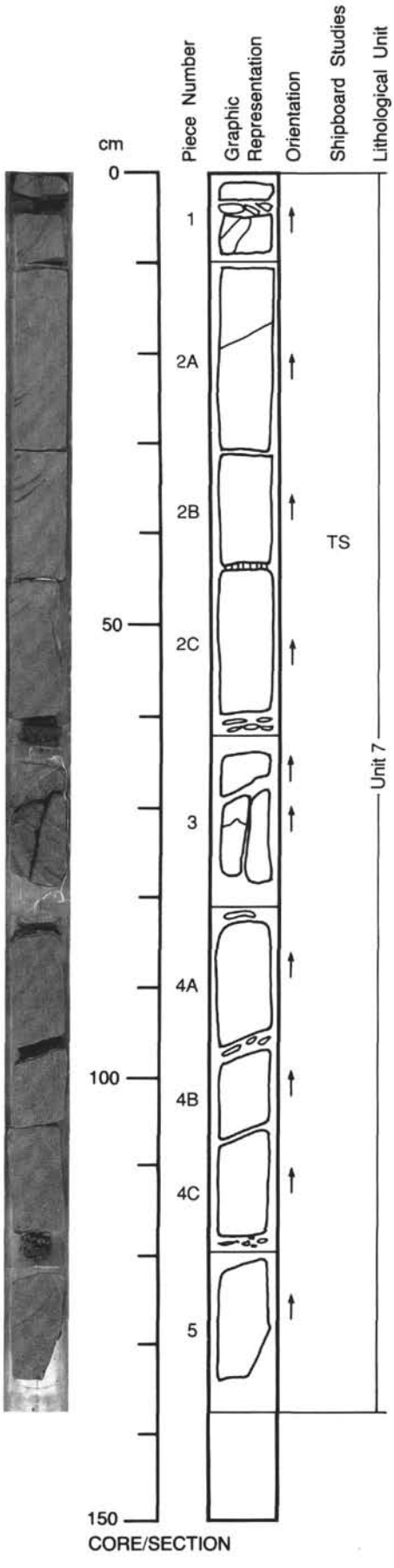


128-794D-12R-2

UNIT 7: APHYRIC DOLERITE

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Similar to Section 1; Subhedral to euhedral tablets of plagioclase and pyroxene, 0.8-1.5 mm.
GROUNDMASS: Pieces 1-2C: same as Section 1 but with increasing grain size; Pieces 2D-5C: same as Section 1 = microcrystalline, intergranular texture; plagioclase 40%, 0.3-0.6 mm, subhedral; pyroxene 40%, 0.3-0.5 mm, subhedral; magnetite 10%, 0.05-0.2 mm, euhedral to subhedral; olivine pseudomorphs(??) Pieces 5C-D: slight increase in grain size.
VESICLES: None.
COLOR: Dark grayish green.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: Very large (2.5 cm) vein, Azimuth 50 degrees.
ADDITIONAL COMMENTS: Same as Section 1.

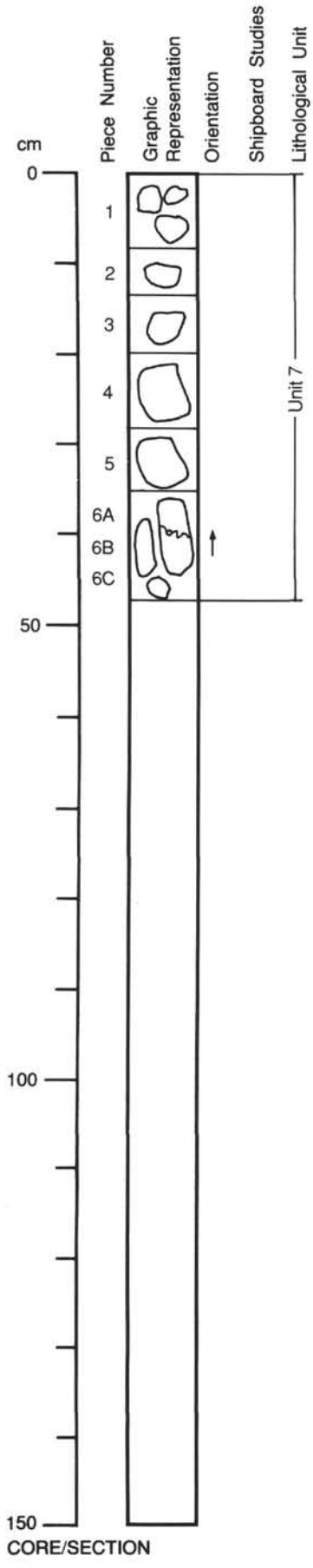


128-794D-12R-3

UNIT 7: APHYRIC DOLERITE

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Pieces 3-5: Subhedral to euhedral tablets of plagioclase and pyroxene, 0.8-1.5 mm.
GROUNDMASS: Pieces 1-2: same as Section 1 (fine grained); Pieces 3-5: increasing grain size.
VESICLES: None.
COLOR: Dark grayish green.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Same as Section 1 & 2.

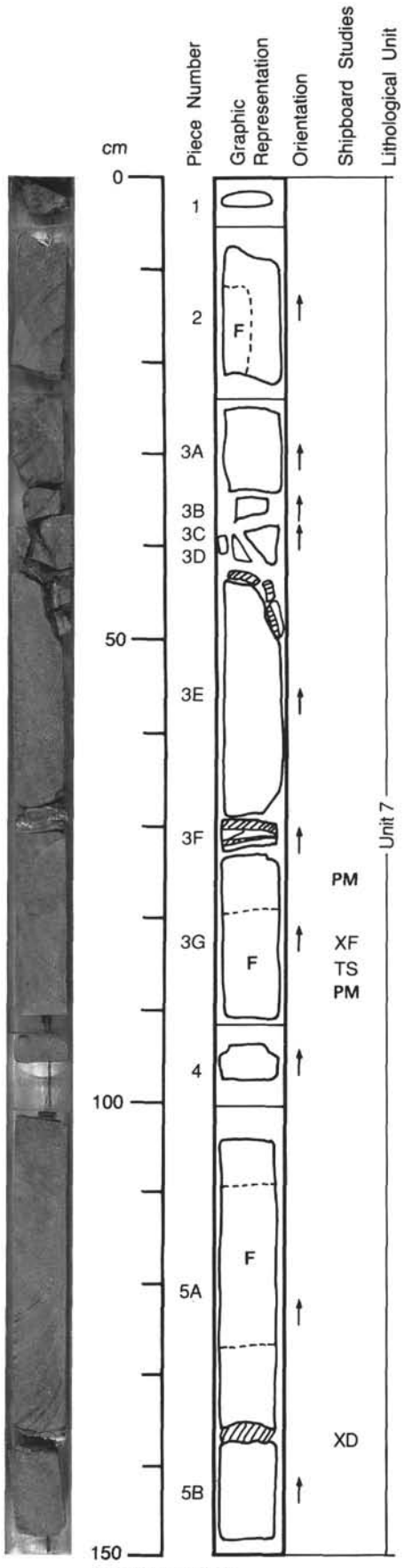


128-794D-12R-4

UNIT 7: APHYRIC DOLERITE

Pieces 1-6

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Same as Section 1 with increased grain size to 0.2-1.5 mm.
VESICLES: None.
COLOR: Dark grayish green.
STRUCTURE: Massive.
ALTERATION: Moderate.
VEINS/FRACTURES: Meandriform(?) dark green to blue vein.
ADDITIONAL COMMENTS: Same as Sections 1, 2 & 3.

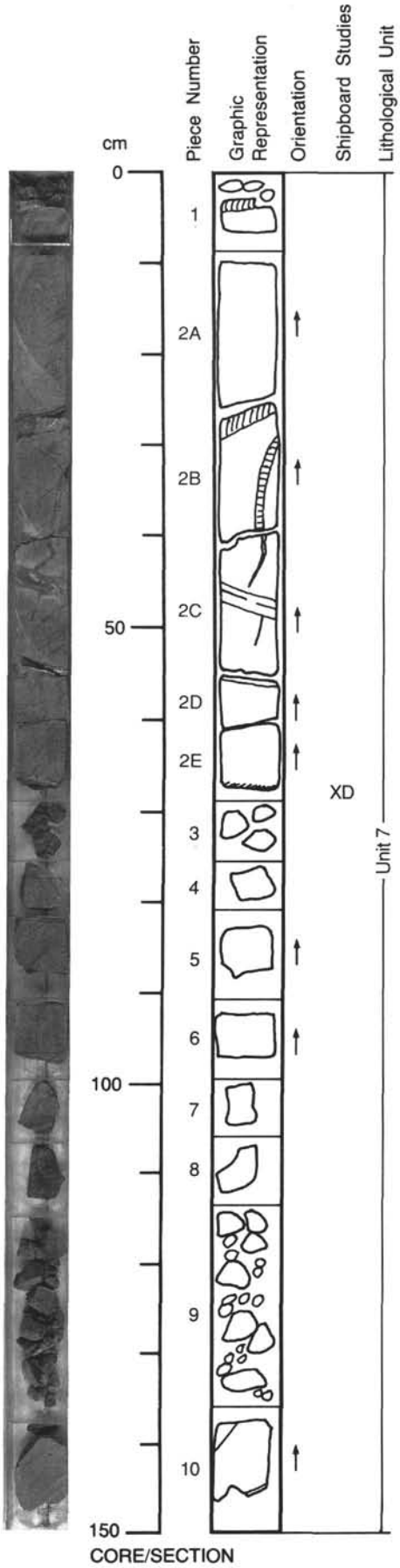


128-794D-13R-1

UNIT 7: APHYRIC DOLERITE

Pieces 1-5

CONTACTS: Coarse/fine grained contacts in Pieces 2, 3G & 5A.
PHENOCRYSTS: None.
GROUNDMASS: Dominant coarse fraction: plagioclase 40% subhedral 0.3-0.6 mm, pyroxene 40% subhedral 0.3-0.5 mm, magnetite 10% euhedral to subhedral 0.1-0.2 mm. Fine grained minor fraction: plagioclase 50% 0.3 mm, pyroxene 30% 0.1-0.2 mm, magnetite as in coarse fraction.
VESICLES: None.
COLOR: Dark grayish green.
STRUCTURE: Massive.
ALTERATION: As in Core 12.
VEINS/FRACTURES: Pieces 3A, B, C, D, E: 6 mm wide, fibrous calcite interior and talc-chlorite exterior, Azimuth 290; Piece 3F: 2 cm wide including wall rock inclusion, same mineralogy as above, Azimuth 080; Pieces 5A, B: 1.5 cm wide, same mineralogy as above, Azimuth 090.
ADDITIONAL COMMENTS: Same as 794D-12R.



128-794D-13R-2

UNIT 7: APHYRIC DOLERITE

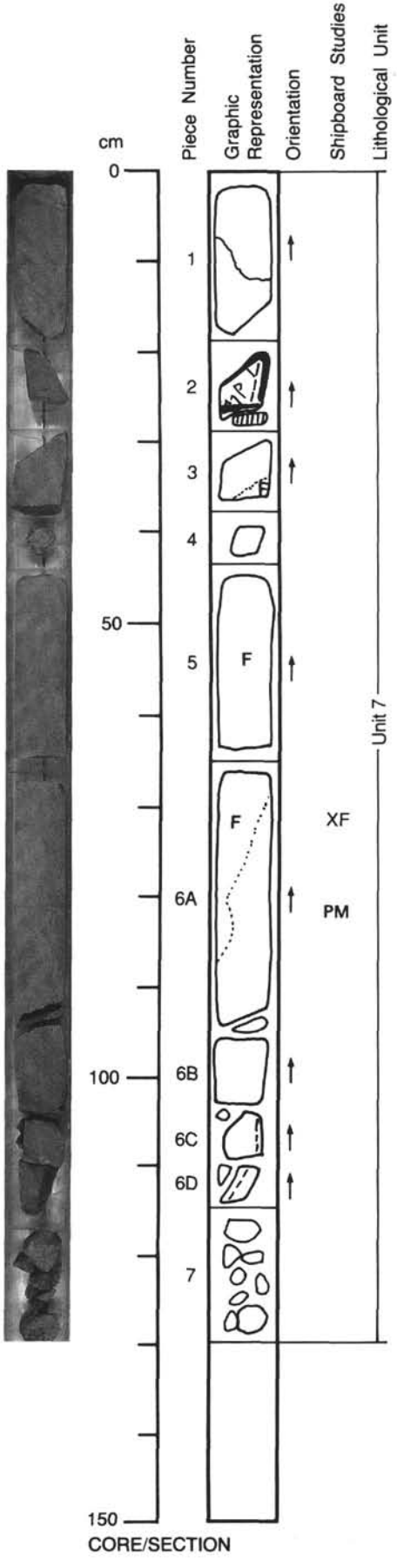
Pieces 1-2D

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Same as Section 13 -- Plagioclase 40% subhedral 0.3-0.6 mm, pyroxene 40% subhedral 0.3-0.5 mm, magnetite 10% euhedral to subhedral 0.1-0.2 mm.
VESICLES: None.
COLOR: Dark grayish green.
STRUCTURE: Massive.
ALTERATION: As in Section 1.
VEINS/FRACTURES: Piece 1: 1 cm wide, talc-chlorite rim with chlorite core, Azimuth 090; Piece 2A,B: 1.3 cm wide, same mineralogy, Azimuth 075; Pieces 2B,C: 1.3 cm wide, same mineralogy + small grains of quartz and trace pyrite, 3 mm selvedge of altered feldspar, Azimuth 280; Pieces 2B, C: 0.5 cm, chlorite with 1 mm selvedge as above, Azimuth 010, vein is older than the preceeding and is offset 2 cm "left lateral"; Pieces 2C,D: 4 mm, fibrous calcite core and talc-chlorite wall, Azimuth 285.
ADDITIONAL COMMENTS: Same as 794D-13R-1 (continued on next form).

UNIT 7: APHYRIC DOLERITE

Pieces 2E-10

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Same as Pieces 1-2D: plagioclase 40% subhedral 0.3-0.6 mm, pyroxene 40% subhedral 0.3-0.5 mm, magnetite 10% euhedral to subhedral 0.1-0.2 mm.
VESICLES: None.
COLOR: Dark grayish green.
STRUCTURE: Massive.
ALTERATION: As in Section 1.
VEINS/FRACTURES: Piece 2E: 6 mm wide, chlorite, Azimuth 280; Piece 6: 1 mm wide, chlorite, Azimuth 355 and 090; Piece 10: 1 mm, chlorite rim and calcite core, Azimuth 060.
ADDITIONAL COMMENTS: Same as 794D-13R-1, Pieces 1-2D (continued from previous form).

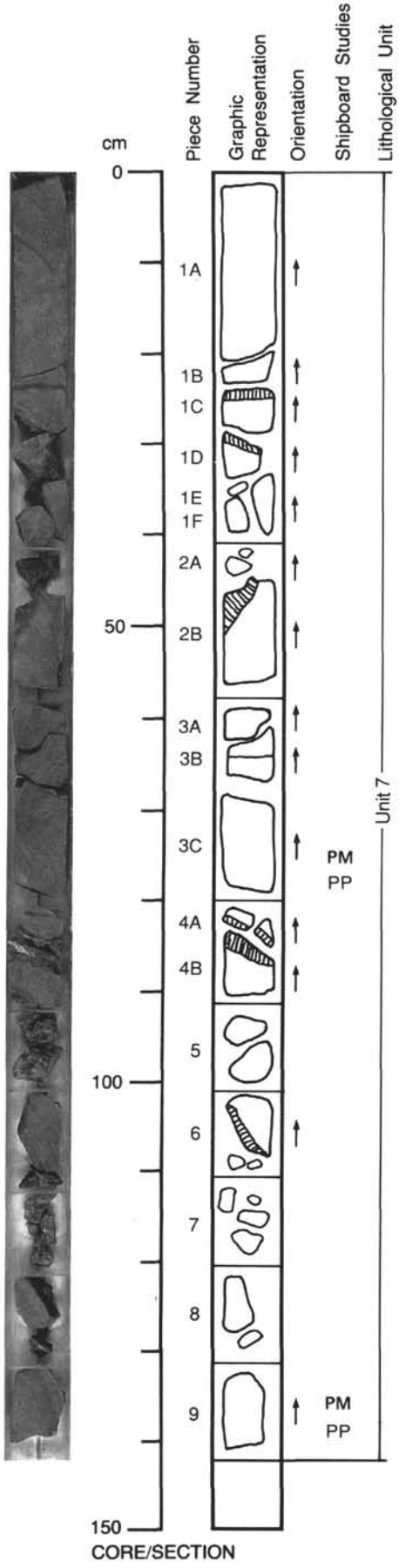


128-794D-14R-1

UNIT 7: APHYRIC DOLERITE

Pieces 1-7

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Fine-medium grained, subophitic texture; plagioclase 40%, laths, euhedral to subhedral, 0.5-0.8 mm; pyroxene 40%, subhedral, 0.3-0.5 mm; magnetite 8%, subhedral, 0.05-0.2 mm. Pieces 3, 5, & 6A have finer grained groundmass: plagioclase 0.2-0.4 mm; pyroxene 0.15-0.3 mm but otherwise the same.
VESICLES: None.
COLOR: Grayish green.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: ?; 0.1 mm; 90, 320, & 350 degrees; talc.
ADDITIONAL COMMENTS: Same as Core 13.

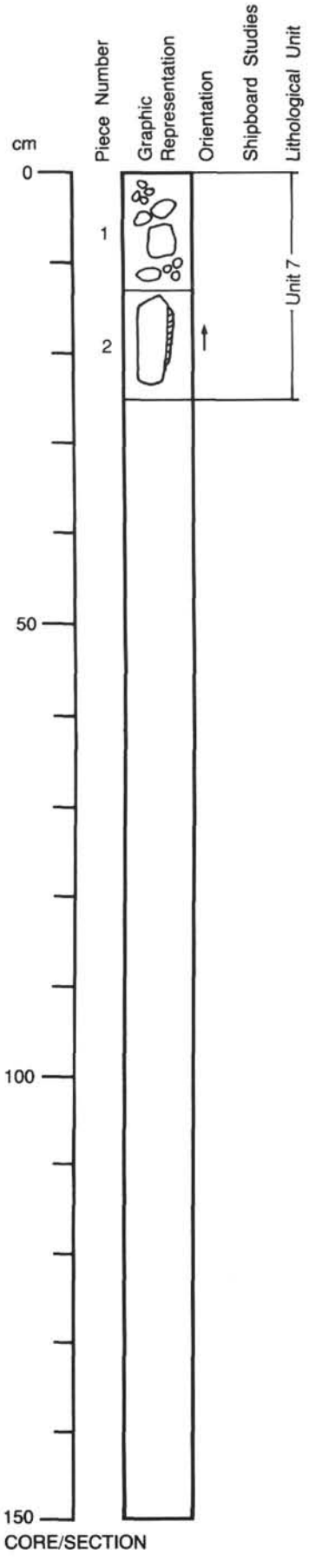


128-794D-14R-2

UNIT 7: APHYRIC DOLERITE

Pieces 1-9

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Fine-medium grained, subophitic texture; plagioclase 40%, laths, euhedral to subhedral, 0.5-0.8 mm; pyroxene 40%, subhedral, 0.3-0.5 mm; magnetite 8%, subhedral, 0.05-0.2 mm.
VESICLES: None.
COLOR: Grayish green.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: 1%; 0.1 mm - 2 cm; 30, 90, 300, & 320 degrees; thin veins: talc; thick veins: calcite core and talc + chlorite + quartz margin.
ADDITIONAL COMMENTS: Same as Section 1.

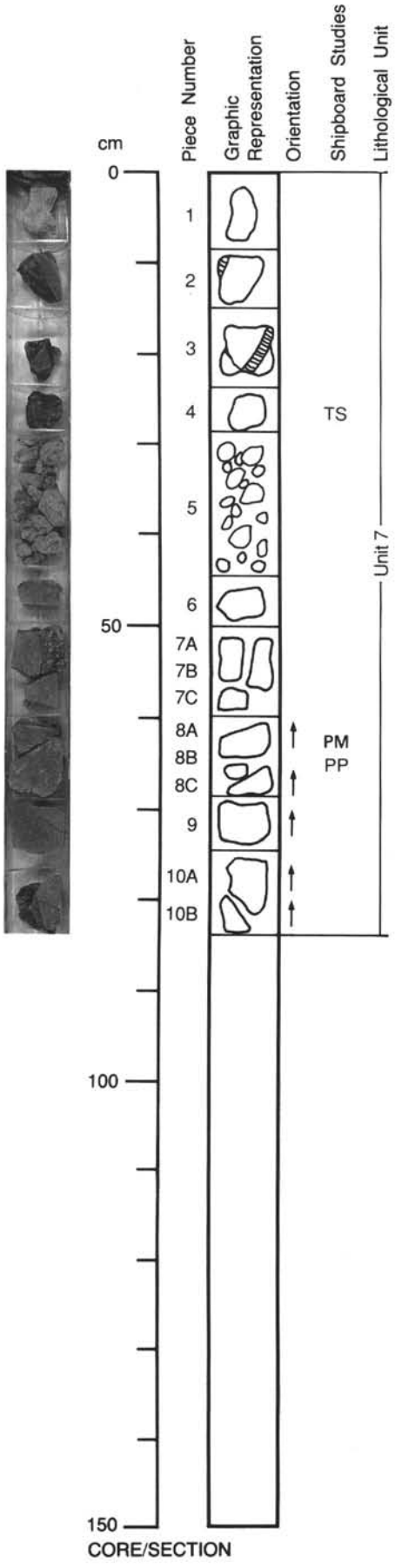


128-794D-14R-3

UNIT 7: APHYRIC DOLERITE

Pieces 1-2

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Fine-medium grained, subophitic texture; plagioclase 40%, laths, euhedral to subhedral, 0.5-0.8 mm; pyroxene 40%, subhedral, 0.3-0.5 mm; magnetite 8%, subhedral, 0.05-0.2 mm.
VESICLES: None.
COLOR: Grayish green.
STRUCTURE: Massive.
ALTERATION: Slight.
VEINS/FRACTURES: ?; 3 mm; subvertical; talc + chlorite.
ADDITIONAL COMMENTS: Same as Sections 1 & 2.

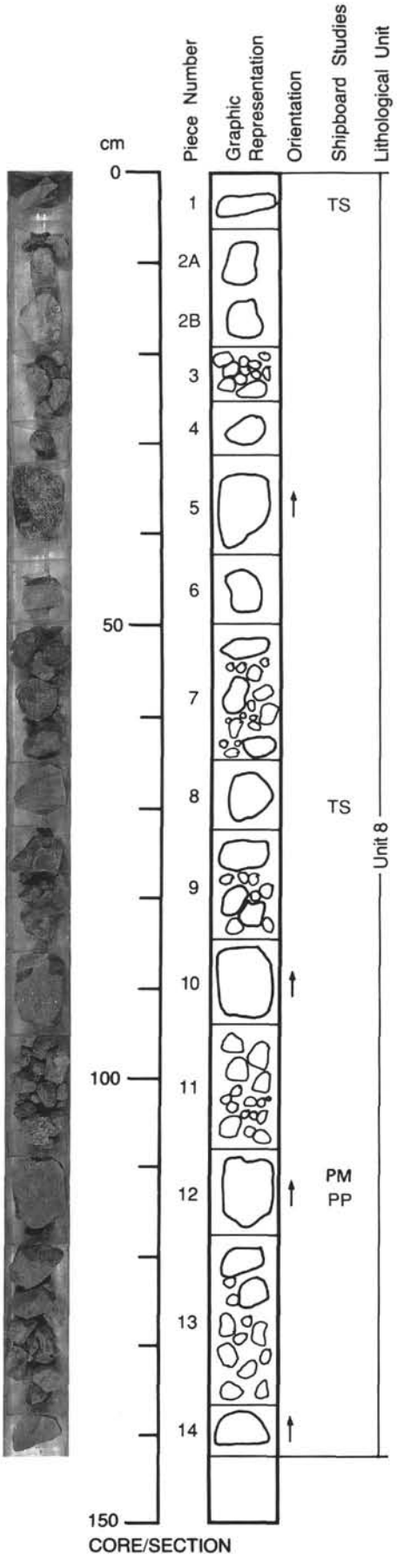


128-794D-15R-1

UNIT 7: APHYRIC DOLERITE

Pieces 1-10

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Fine grained, subophitic texture; plagioclase 40%, laths, subhedral, 0.2-0.4 mm; pyroxene 40%, subhedral, 0.1-0.3 mm; magnetite 5%, subhedral, 0.05 mm.
VESICLES: None.
COLOR: Grayish green.
STRUCTURE: Massive.
ALTERATION: Moderate (Pieces 2-10) to very high (Piece 1).
VEINS/FRACTURES: ?; 0.3-0.5 mm; ?; talc + chlorite.
ADDITIONAL COMMENTS: Same as Core 14.

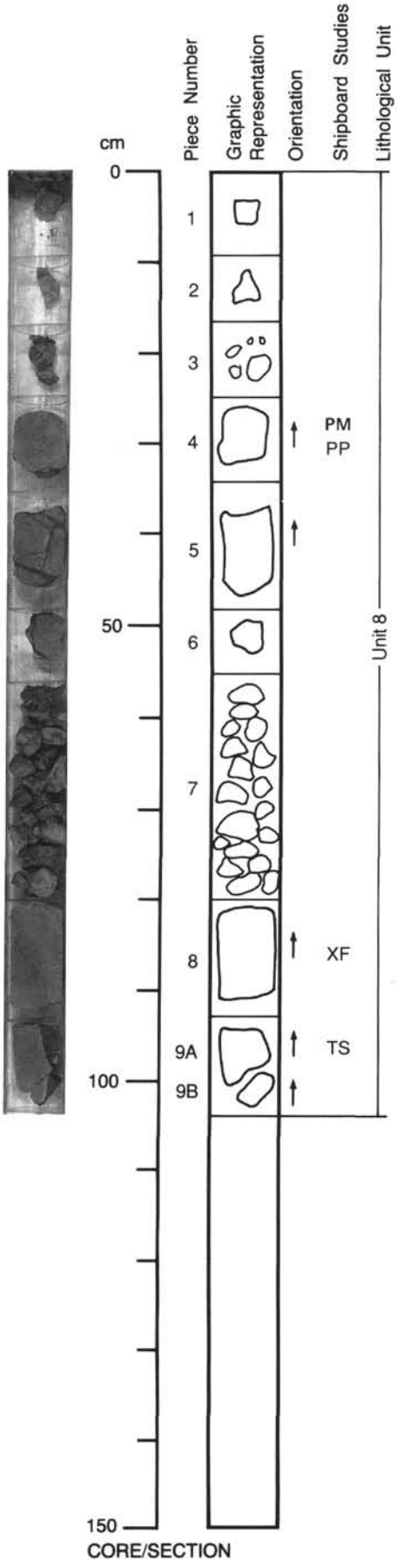


128-794D-16R-1

UNIT 8: APHYRIC BASALT

Pieces 1-14

CONTACTS: None (Piece 1 is very fine grained so must be near upper contact).
PHENOCRYSTS: None.
GROUNDMASS: Fine grained, subophitic texture; plagioclase 60%, laths, subhedral to tabular, 0.1-0.5 mm; pyroxene 35%, subhedral, 0.1-0.3 mm; magnetite 5%, subhedral to skeletal, 0.05-0.1 mm.
VESICLES: 0.1-1%; 0.5-2.5 mm; round; Pieces 9-14; filled with calcite and with calcite + thin rim of chlorite(?).
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Pieces 2 & 3: very high to celadonite and other clays (in fault zone?); Pieces 4-14: low to moderate to smectite.
VEINS/FRACTURES: Piece 4: polygonal, 1-3 mm, chlorite; Piece 5: slickensides, chlorite; Piece 10: 1 cm narrowing to 1 mm, chlorite, Azimuth 065; Piece 12: 1 mm, chlorite, azimuth 070.
ADDITIONAL COMMENTS: Basalt lava.

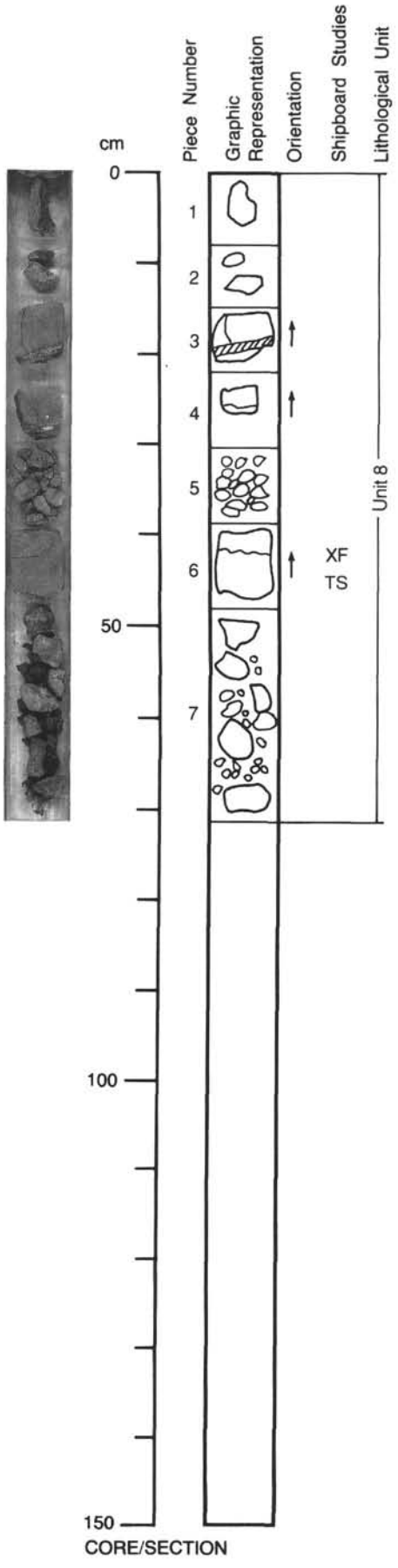


128-794D-17R-1

UNIT 8: APHYRIC DOLERITIC BASALT

Pieces 1-9

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Fine grained, subophitic texture; plagioclase 60%, subhedral to tabular, 0.1-0.5 mm; pyroxene 35%, subhedral, 0.1-0.3 mm; magnetite 5%, subhedral to skeletal, 0.05-0.1 mm.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Pieces 1 & 2: completely altered to green, greasy, celadonitic clay; Pieces 4-9B: low alteration.
VEINS/FRACTURES: Piece 4: 1 mm, chlorite, Azimuth 340; Piece 5: multiple,1-4 mm, chlorite, 290-060; Piece 6: 1 mm, chlorite, 000.
ADDITIONAL COMMENTS: Coarse grained core of basalt; same unit as Core 16.

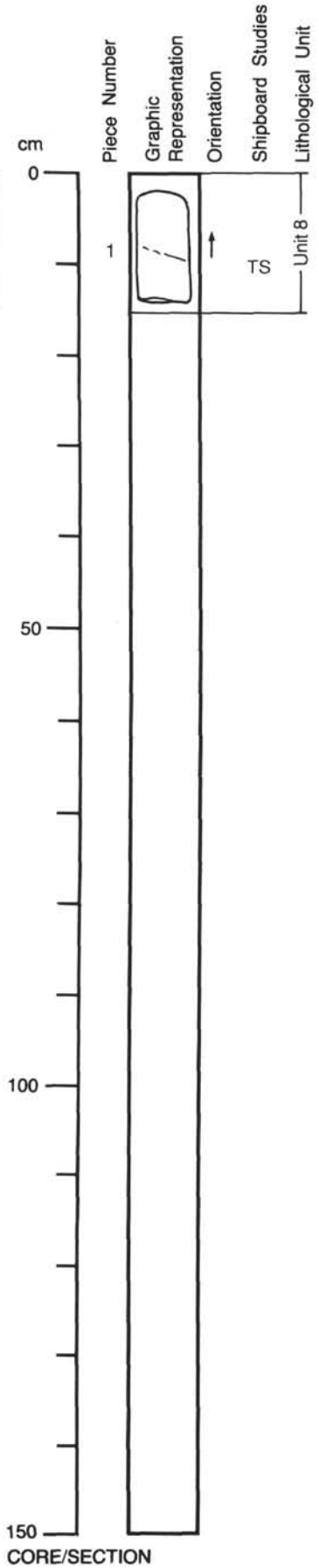


128-794D-18R-1

UNIT 8: APHYRIC DOLERITE

Pieces 1-7

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Medium grained, subophitic texture; plagioclase 50%, subhedral to tabular, 0.1-0.5 mm; pyroxene 35%, subhedral, 0.1-0.3 mm; magnetite 5%, subhedral to skeletal, 0.05-0.1 mm; mesostasis 10%, yellow.
VESICLES: Rare; 1 mm; irregular; Piece 7; found in rubble pieces in 7.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: Low.
VEINS/FRACTURES: Piece 3: 8 mm, chlorite + calcite, 5 mm brown selvedge of altered feldspar, Azimuth 080; 3 mm, chlorite, Azimuth 000, extends from 8 mm vein and cuts selvedge; Piece 4: 4 mm, chlorite with fibrous calcite in core, 090; Piece 6: 2 of 0.05 mm, calcite, 285 & 300; Piece 6 (bottom): remnant of calcite chlorite vein.
ADDITIONAL COMMENTS: Coarse grained core of basalt; same unit as Cores 16 & 17.

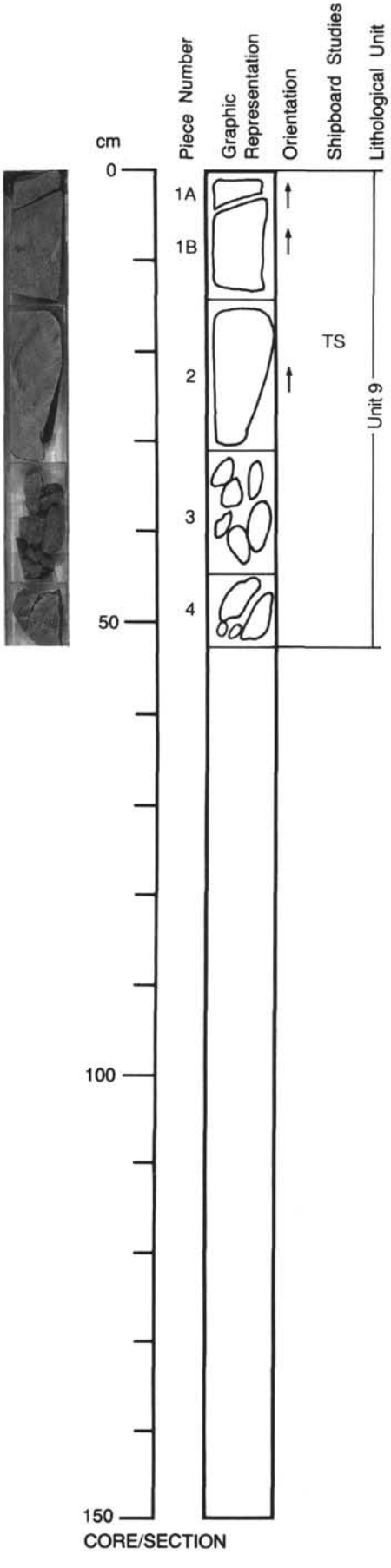


128-794D-19R-1

UNIT 9: APHYRIC DOLERITE

Piece 1

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Medium grained, subophitic texture; plagioclase: 30%, tabular & subhedral, 0.1-2 mm; pyroxene: 60%, subhedral, 0.2-0.5 mm; magnetite: 10%, euhedral to subhedral, 0.1-0.3 mm.
VESICLES: None.
COLOR: Dark gray.
STRUCTURE: Massive.
ALTERATION: None to slight.
VEINS/FRACTURES: 0.25 mm, calcite, Azimuth 290.
ADDITIONAL COMMENTS: May be either a coarser portion of Unit 8 or a new unit (9). Has different proportions of plagioclase and pyroxene than previous Unit 8 cores and is coarser grained.



128-794D-20R-1

UNIT 9: APHYRIC DOLERITE

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS: None.
GROUNDMASS: Medium-grained, sub-ophitic texture; plagioclase: 30%, laths,0.3-1mm; pyroxene: 30%, subhedral, 0.2-0.6 mm; olivine, 10%, euhedral, 0.3-0.6 mm; magnetite: 10%, skeletal, 0.2-0.5 mm.
VESICLES: None.
COLOR: *Dark green.*
STRUCTURE: Massive.
ALTERATION: Weak.
VEINS/FRACTURES: None.
ADDITIONAL COMMENTS: Pieces 3-4: finer grain.

128-794D-1R-01 (Piece 8C,101-102 cm) OBSERVER: POU WHERE SAMPLED: Sill, upper part

ROCK NAME: Highly plagioclase phyric dolerite

GRAIN SIZE: Medium-grained

TEXTURE: Intergranular-intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	35	35	1-5		Euhedral and subhedral	Seriate texture.
Magnetite	5	5	.1-.5		Euhedral or skeletal	
Orthopyroxene	1	1	2-4		Euhedral	
Pyroxene/ Olivine	0	5	1-2		Euhedral-subhedral	Totally altered.
GROUNDMASS						
Plagioclase	20	20	.3-1		Lath	Seriate texture.
Clinopyroxene	20	20	.3-.8		Subhedral or anhedral	
Magnetite	2	2	.03-.08		Subhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Sideromelane	8	Interstitial	Variolitic.
Smectites	4	Insterstitial	
Smectites, Fe-oxides	5	Olivine, clinopyroxene	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-3R-02 (Piece 11,88-93 cm) OBSERVER: POU WHERE SAMPLED: Sill, middle part

ROCK NAME: Highly plagioclase pyroxene phyric dolerite

GRAIN SIZE: Medium-grained

TEXTURE: Intergranular-intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	1-5		Euhedral-subhedral	Seriate texture.
Clinopyroxene	8	8	.5-1		Subhedral-anhedral	
Orthopyroxene	4	4	.6-.8		Subhedral	
Olivine	0	3	.6-.8		Euhedral	Altered.
Magnetite	5	5	.1-.5		Euhedral	May be skeletal.
GROUNDMASS						
Plagioclase	18	18	.3-1		Lath	
Clinopyroxene	18	18	.3-.8		Subhedral-anhedral	
Magnetite	2	2	.03-.08		Subhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Sideromelane	8	Interstitial	Variolitic.
Smectites	4	Interstitial	
Fe-oxides, smectites	3	Olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

COMMENTS: Some orthocumulate textures.

128-794D-4R-01 (Piece 3C,27-30 cm) OBSERVER: POU WHERE SAMPLED: Flow

ROCK NAME: Doleritic basalt

GRAIN SIZE: Fine grained, microcrystalline

TEXTURE: Intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine/ pyroxene	0	10	.4-1		Euhedral	Totally altered.
GROUNDMASS						
Magnetite	5	5	.01-.03		Euhedral-subhedral	
Plagioclase	30	30	.2-.6		Lath, microlith	Feather-like textures.
Pyroxene	0	30	.1-.3		Subhedral	Altered.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Fe-oxides, smectites	40	Olivine, pyroxene	
Chlorite, smectites	25	Glass	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	3-5	Top and base	.5-2	Chlorite, smectites	Irregular

128-794D-5R-01 (Piece 4,40-41 cm) OBSERVER: POU WHERE SAMPLED: Sill

ROCK NAME: Aphyric dolerite

GRAIN SIZE: Fine to medium-grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	5	5	.02-.2		Euhedral	Skeletal.
Olivine	0	10	.5-1		Euhedral	Altered.
Plagioclase	40	40	.5-1		Lath	
Pyroxene	10	30	.5-1.2		Subhedral	Altered.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Fe-oxides, smectites	45	Olivine, pyroxene, interstitial	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

COMMENTS: Highly altered.

128-794D-7R-02 (Piece 1,12-13 cm) OBSERVER: POU WHERE SAMPLED: Sill

ROCK NAME: Olivine microphyric dolerite

GRAIN SIZE: Fine to medium-grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	0	20	1-1.5		Euhedral	Altered.
GROUNDMASS						
Magnetite	5	5	.03-.08		Euhedral, subhedral	Skeletal.
Plagioclase	30	30	.5-.9		Lath	
Clinopyroxene	8	30	.3-.6		Subhedral-anhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Fe-oxides, smectites	57	Olivine, pyroxene, interstitial	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	1-2		.2-.5	Smectites	Irregular

COMMENTS: Highly altered.

128-794D-8R-02 (Piece 10A,126-127 cm) OBSERVER: POU WHERE SAMPLED: Sill

ROCK NAME: Olivine microphyric dolerite

GRAIN SIZE: Fine to medium-grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	0	20	1-1.5		Euhedral	Altered.
GROUNDMASS						
Magnetite	5	5	.03-.08		Euhedral-subhedral	Dendritic-skeletal.
Plagioclase	30	30	.5-1		Lath	
Clinopyroxene	10	30	.3-.6		Subhedral	Altered.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Fe-oxides, smectites	55	Olivine, pyroxene, interstitial	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	1-2		.2-.5.2-.5	Smectites	Irregular

COMMENTS: Highly altered.

128-794D-9R-02 (Piece 1,13-14 cm) OBSERVER: POU WHERE SAMPLED: Sill

ROCK NAME: Olivine microphyric dolerite

GRAIN SIZE: Fine to medium-grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	0	20	1-1.5		Euhedral	Altered
GROUNDMASS						
Magnetite	5	5	.03-.08		Euhedral-subhedral	
Plagioclase	30	30	.5-1		Lath	
Clinopyroxene	15	30	.3-.6		Subhedral	Partly altered

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Fe-oxides, smectites	50	Olivine, pyroxene, interstitial	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-10R-01 (Piece 1,142-143 cm) OBSERVER: POU WHERE SAMPLED: Sediment

ROCK NAME: Clayey tuff

GRAIN SIZE: Fine

TEXTURE: None

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Volcanic shards	0	40	.3-1		Blocky	Altered.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Palagonite	40	Volcanic shards	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-10R-02 (Piece 1B,24-25 cm) OBSERVER: POU WHERE SAMPLED: Flow

ROCK NAME: Basalt

GRAIN SIZE: Microcrystalline

TEXTURE: Microlitic intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.02-.05		Euhedral-subhedral	
Olivine	0	15	.1-.4		Euhedral	Altered.
Pyroxene	0	20	.1-.4		Subhedral-anhedral	Altered.
Plagioclase	20	30	.2-.6		Lath, microlith	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Fe-oxides, smectites	72	Olivine, pyroxene, plagioclase, glass	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	1-3	Random	.5-1	Chlorite, smectites	Irregular

COMMENTS: Very highly altered.

128-794D-10R-02 (Piece 6B,69-70 cm) OBSERVER: POU WHERE SAMPLED: Flow

ROCK NAME: Olivine-pyroxene microphyric basalt

GRAIN SIZE: Fine and microcrystalline

TEXTURE: Intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	0	25	.4-1.4		Euhedral	Altered.
Pyroxene	0	10	.3-1.3		Euhedral	Altered.
GROUNDMASS						
Magnetite	8	8	0.01-0.1		Euhedral-subhedral	
Olivine	0	5	.1-.4		Euhedral	Altered.
Plagioclase	20	20	.1-.3		Microlith	Sheaf-like textures.
Clinopyroxene	5	10	.06-.2		Subhedral-anhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Palagonite	22	Glass	Feather-like textures involving plagioclase.
Fe-oxides, smectites	47	Olivine, pyroxene	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-11R-01 (Piece 3J,93-95 cm) OBSERVER: POU WHERE SAMPLED: Sill or thick flow

ROCK NAME: Olivine microphyric dolerite basalt

GRAIN SIZE: Fine and microcrystalline

TEXTURE: Intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	0	25	.5-1		Euhedral	Altered.
Pyroxene	0	5	.3-.6		Euhedral	Altered.
GROUNDMASS						
Magnetite	5	5	.02-.08		Euhedral-subhedral	
Olivine	0	10	.2-.4		Subhedral	Altered.
Plagioclase	25	25	.3-.6		Lath, microlith	Sheaf-like agregates.
Clinopyroxene	20	20	.2-.4		Subhedral-anhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Palagonite	10	Glass	Fibrous.
Fe-oxides, smectites	40	Olivine, pyroxene	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-12R-03 (Piece 2B,40-41 cm) OBSERVER: POU WHERE SAMPLED: Sill

ROCK NAME: Dolerite

GRAIN SIZE: Fine to medium

TEXTURE: Subophitic-ophitic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.1-.5		Euhedral-subhedral	Skeletal.
Plagioclase	40	40	.2-1		Lath	Seriate size.
Clinopyroxene	40	40	.3-1.2		Subhedral	Tablets and poikilitic crystals.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Fe-oxides, smectites	12	Interstitial, olivine (?)	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

COMMENTS: Moderately altered.

128-794D-13R-01 (Piece 3G,80-81 cm) OBSERVER: POU WHERE SAMPLED: Sill or thick flow

ROCK NAME: Olivine dolerite

GRAIN SIZE: Medium-grained

TEXTURE: Sub-ophitic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.03-.3		Euhedral, skeletal	
Olivine	5	15	.3-.8		Euhedral	Altered.
Plagioclase	32	32	.5-2		Euhedral, subhedral	
Clinopyroxene	35	35	.3-2		Subhedral, anhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectite, chlorite	10	Interstitial	
Serpentine	10	Olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-15R-01 (Piece 4,28-29 cm) OBSERVER: POU WHERE SAMPLED: Sill or thick flow

ROCK NAME: Doleritic basalt

GRAIN SIZE: Fine-sized

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.02-.15		Euhedral	
Olivine	0	15	.3-.5		Euhedral	Totally altered.
Plagioclase	30	30	.2-1		Euhedral, subhedral	
Clinopyroxene	5	30	.2-.8		Subhedral	Altered.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectite, Fe-oxides	17	Interstitial	
Serpentine, smectite	15	Olivine	
Chlorite, actinote	25	Pyroxene	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-16R-01 (Piece 1,4-5 cm) OBSERVER: POU WHERE SAMPLED: Flow

ROCK NAME: Basalt

GRAIN SIZE: Fine-sized

TEXTURE: Quenched

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	5	5	.03-.06		Subhedral	
Olivine	0	5	.2-.4		Euhedral	Clusters.
Plagioclase	25	25	.1-.8		Thin laths	Agregated.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectites	5	Olivine	
Smectites, chlorite	65	Glass, plagioclase, pyroxene	Altered radiate intergrown plagioclase and pyroxene.

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-16R-01 (Piece 8,70-71 cm) OBSERVER: POU WHERE SAMPLED: Flow

ROCK NAME: Basalt

GRAIN SIZE: Fine-grained

TEXTURE: Quenched

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	5	5	.03-.06		Subhedral	Oxidized.
Olivine	0	5	.2-.4		Euhedral	
Plagioclase	35	35	.1-.8		Thin laths	Agregated.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectite	5	Olivine	
Smectite, chlorite	55	Glass, plagioclase, pyroxene	Altered radiate intergrown plagioclase and pyroxene.

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	3	Dispersed	.1	Chlorite, calcite	Rounded

128-794D-17R-01 (Piece 9A,96-97 cm) OBSERVER: POU WHERE SAMPLED: Flow

ROCK NAME: Olivine doleritic basalt

GRAIN SIZE: Fine-grained

TEXTURE: Intergranular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.03-.3		Euhedral, skeletal	
Olivine	5	15	.3-.8		Euhedral	
Plagioclase	32	32	.5-2		Lath	
Clinopyroxene	35	35	.3-2		Subhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectite	10	Interstitial	
Serpentine	10	Olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-18R-01 (Piece 6,43-44 cm) OBSERVER: POU WHERE SAMPLED: Flow

ROCK NAME: Olivine dolerite

GRAIN SIZE: Fine to medium-grained

TEXTURE: Sub-ophitic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.03-.3		Euhedral, skeletal	
Olivine	5	15	.3-.8		Euhedral	
Plagioclase	32	32	.5-2		Lath	
Clinopyroxene	25	35	.3-2		Subhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectite	10	Interstitial	
Serpentine	10	Olivine	
Smectite, chlorite	10	Pyroxene	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-19R-01 (Piece 1,10-11 cm) OBSERVER: POU WHERE SAMPLED: Sill

ROCK NAME: Olivine dolerite

GRAIN SIZE: Fine to medium-grained

TEXTURE: Sub-ophitic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.05-.3		Euhedral	
Olivine	5	25	.3-.8		Euhedral	
Plagioclase	27	27	.5-2		Lath	
Clinopyroxene	30	30	.4-2		Subhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectite	10	Interstitial	
Serpentine, smectite	20	Olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-794D-20R-01 (Piece 2,19-20 cm) OBSERVER: POU WHERE SAMPLED: Sill

ROCK NAME: Olivine dolerite

GRAIN SIZE: Fine to medium-grained

TEXTURE: Sub-ophitic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Magnetite	8	8	.03-.3		Euhedral	
Olivine	15	25	.3-.8		Euhedral	
Plagioclase	27	27	.5-2		Lath	
Clinopyroxene	30	30	.4-2		Subhedral	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Smectite	10	Interstitial	
Serpentine, smectite	10	Olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				