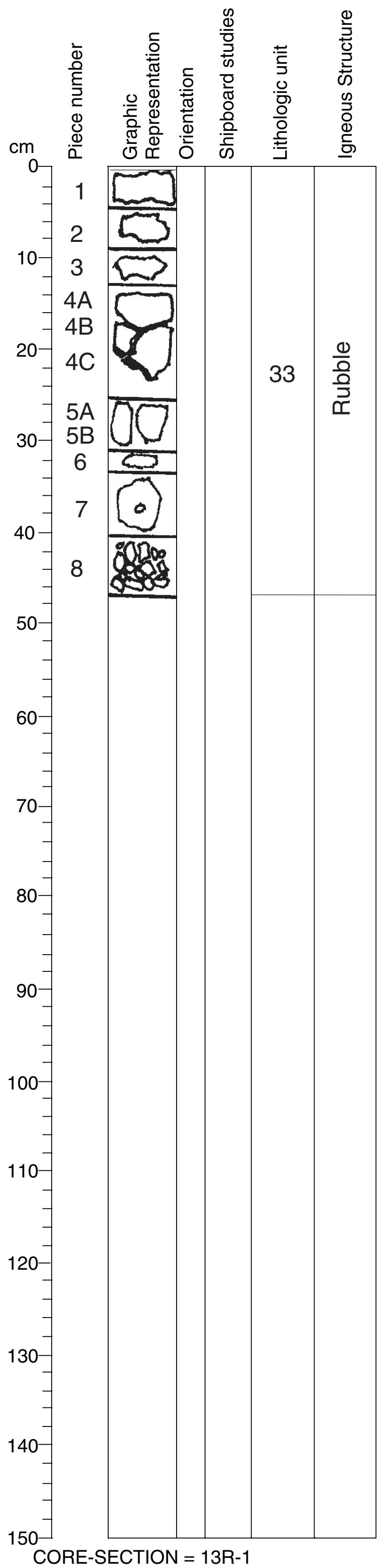
Core Photo

185-801C-13R-1 **Section top: 594.3 (mbsf)**



UNIT 33: RUBBLE

Pieces: 1-8

CONTACTS: None

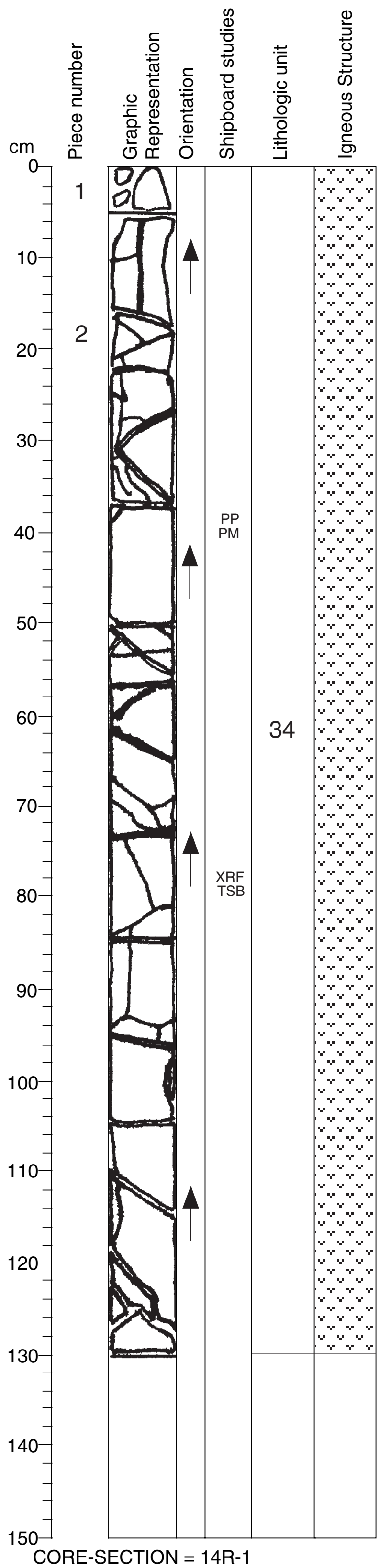
STRUCTURE: Mixture of basalt pieces (from pillows or flows, unable to distinguish), altered interpillow material and pieces from the hydrothermal deposit.

Piece 1: dark gray basalt
Piece 2: yellow hydrothermal deposit
Piece 3: reddish brown chert breccia
Piece 4: very dark gray aphyric basalt
Piece 5: speckled dark grayish green, yellow and white interpillow material
Piece 6: dark grayish green interpillow sediment
Piece 7: dark gray aphyric basalt
Piece 8: dark greenish aphyric basalt pebbles

COMMENTS: This unit represents the material from the bottom of Hole 801C, immedately after re-entry. The fragments recovered are interpreted as portions of units from higher in the hole.

Core Photo

185-801C-14R-1 **Section top: 604.00 (mbsf)**



UNIT 34: APHYRIC BASALT

Pieces: 1-2

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1			1.5	euhedral
Pyroxene(altered)	<1			3	subhedral

GROUNDMASS: Fine grained.

COLOR: Gray to dark gray.

VESICLES: 1-3 %; 0.1-0.5 in size; filled with saponite or calcite.

STRUCTURE: Massive flow.

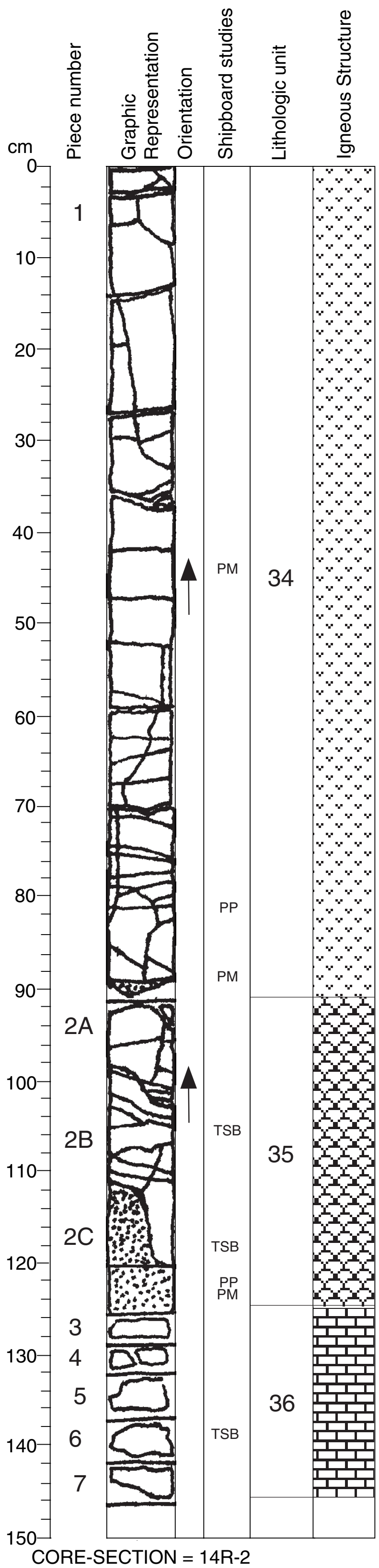
ALTERATION: Slightly altered (<10%), dark gray.

VEINS/FRACTURES: 33 veins, randomly oriented, 0.1-1.8 mm wide, filled with carbonate and/or celadonite. Minor occurences of pyrite in some veins.

COMMENTS: Similar to Unit 32 Leg 129-12R-3 aphyric basalt, but slightly different phenocrysts.

Core Photo

185-801C-14R-2 **Section top: 605.3 (mbsf)**



UNIT 34: APHYRIC BASALT

Pieces: 1

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1			1.5	euhedral
Pyroxene (altered)	<1			3	subhedral

GROUNDMASS: Fine grained.

COLOR: Gray to dark gray

VESICLES: 1-3 %; 0.1-0.5 in size; filled with saponite or carbonate.

STRUCTURE: Massive flow.

ALTERATION: Slightly altered (<10%), dark gray

VEINS/FRACTURES: 24 veins, randomly oriented, 0.1-10 mm wide, filled with carbonate and/or celadonite. Also occurences of minor amounts of pyrite.

COMMENTS: Similar to UNIT 32 leg 129-12R-3.

UNIT 35: APHYRIC BASALT

Pieces: 2A-2C

CONTACTS: Chilled pillow margins.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	2	0.5	0.2	0.2	euhedral laths

GROUNDMASS: Basalt is hypocrystalline, interpillow material is medium grained.

COLOR: Very dark gray; interpillow material bluish green to brownish red.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillow and interpillow material.

ALTERATION: Slightly altered (<10%), dark gray.

VEINS/FRACTURES: 10 veins, randomly oriented, 0.1-10 mm wide, filled with carbonate, saponite and/or celadonite. Veins may also be associated with minor amounts of pyrite and/or Fe-oxyhydroxides. Many are associated with 1-3 mm greenish halos containing either pyrite or iron-oxide.

COMMENTS: Pillow margins are altered glass. Interpillow material is highly altered with some sediment present. Lower part of Piece 2C is weak red (10 R 4/4) to dusky red and green (5G 3/2) altered chert with calcareous blebs. Weak red/green layering. Coarse fabric due to recrystallisation.

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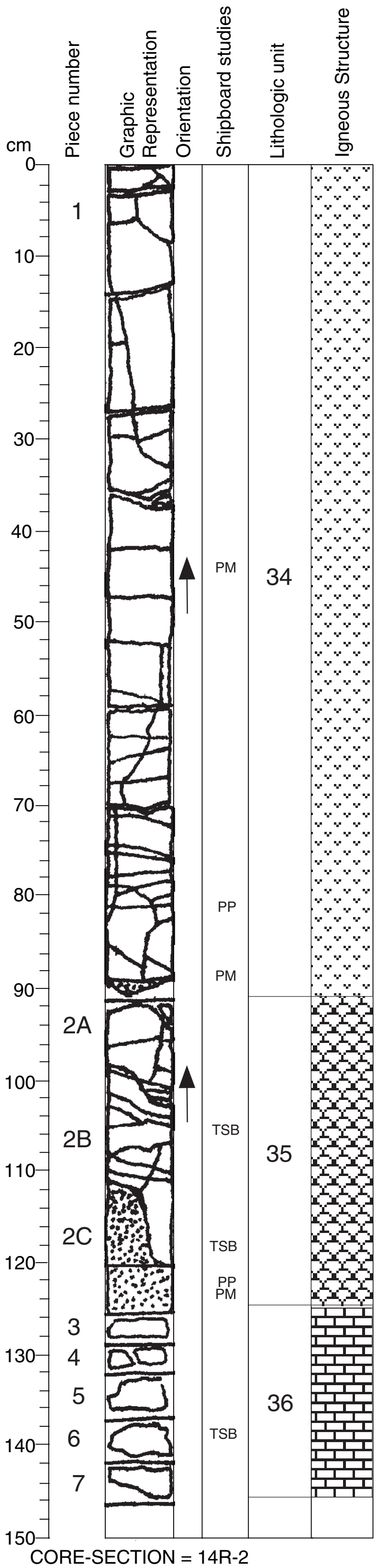
Core Photo

185-801C-14R-2 **(Continued)**



UNIT 36: CHERTY INTERPILLOW SEDIMENT

Pieces: 3-7

CONTACTS: None observed

PHENOCRYSTS: None.

GROUNDMASS: Dense.

COLOR: Very dark brown, brownish yellow and dark green.

VESICLES: None.

STRUCTURE: interpillow material; chert rich sediment.

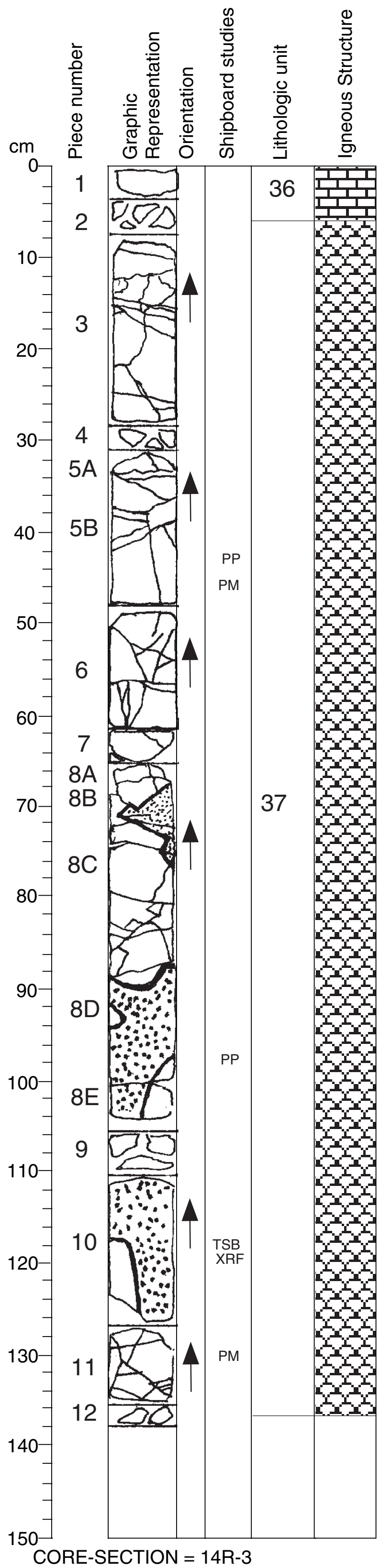
ALTERATION:

VEINS/FRACTURES: None.

COMMENTS: Pieces 3 through 7 are variably colored, partly color-banded (dusky red to green and yellow to brown) chert cobbles. Pieces 3 and 4 are brown chert breccias with sub-millimeter-sized clasts. Piece 3 displays coarse fabric with recrystallized carbonate blebs at the upper edge, but is otherwise fine-grained. It is cut by a clear, carbonate-filled vein. Piece 5 contains euhedral, sub-millimeter sized quartz crystals in a brown to green matrix. Piece 6 shows abrupt changes in size and abundance of clasts which is interpreted as sedimentary bedding. Bedding is perpendicular to color banding. Some strongly recrystallized radiolarians and fecal pellets are present. Piece 7 is greenish chert cut by a 2 cm-wide yellowish brown alteration zone.

Core Photo

185-801C-14R-3 **Section top: 606.55 (mbsf)**



UNIT 36: CHERTY INTERPILLOW SEDIMENT

Pieces: 1-2

CONTACTS: None observed.

PHENOCRYSTS: None.

GROUNDMASS: Fine grained, some variation in grain size.

COLOR: Very dark brown, brownish yellow and dark green.

VESICLES: None.

STRUCTURE: Interpillow material; chert rich sediment.

ALTERATION:

VEINS/FRACTURES: None

COMMENTS: Bedding observed perpendicular to color banding. Some radiolarians are present.

UNIT 37: APHYRIC BASALT

Pieces: 3-12

CONTACTS: Chilled pillow margins in piece 8A, 8D, 8E, 9 and 10.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Pyroxene	<1			0.5	euhedral

GROUNDMASS: Hypocrystalline.

COLOR: Very dark gray; interpillow material displays a wide variation in color, green, yellow, red and white.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows with brecciated interpillow material.

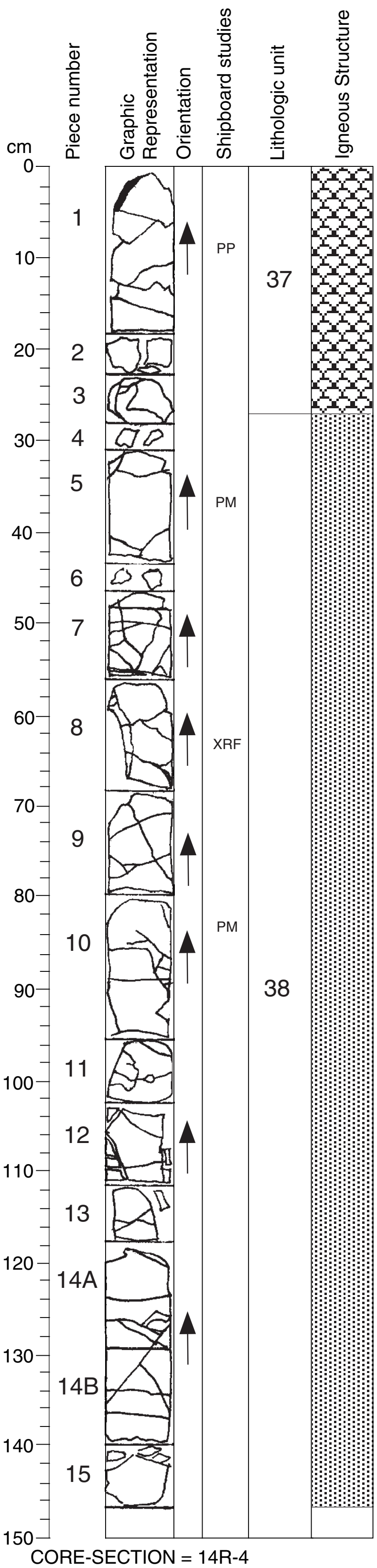
ALTERATION: Slightly altered (<10%), dark gray.

VEINS/FRACTURES: 45 veins, randomly oriented (subhorizontal to vertical), 0.1-2 mm width, of carbonate and/or saponite, or celadonite. Vein mineral assemblage include may include minor amounts of pyrite and/or iron-oxide. Many of the saponite and carbonate veins have 0.5-2 mm sulfide halos.

COMMENTS: High K and low magnetic susceptibility in interpillow zones.

Core Photo

185-801C-14R-4 **Section top: 608.2 (mbsf)**



UNIT 38: APHYRIC BASALT

Pieces: 1A-15

CONTACTS: Chilled margin on top of piece 1 and 3.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2	1	1	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Very dark gray.

VESICLES: 1%; < 0.1 mm in size; filled with calcite or saponite.

STRUCTURE: Thin flows or pillows.

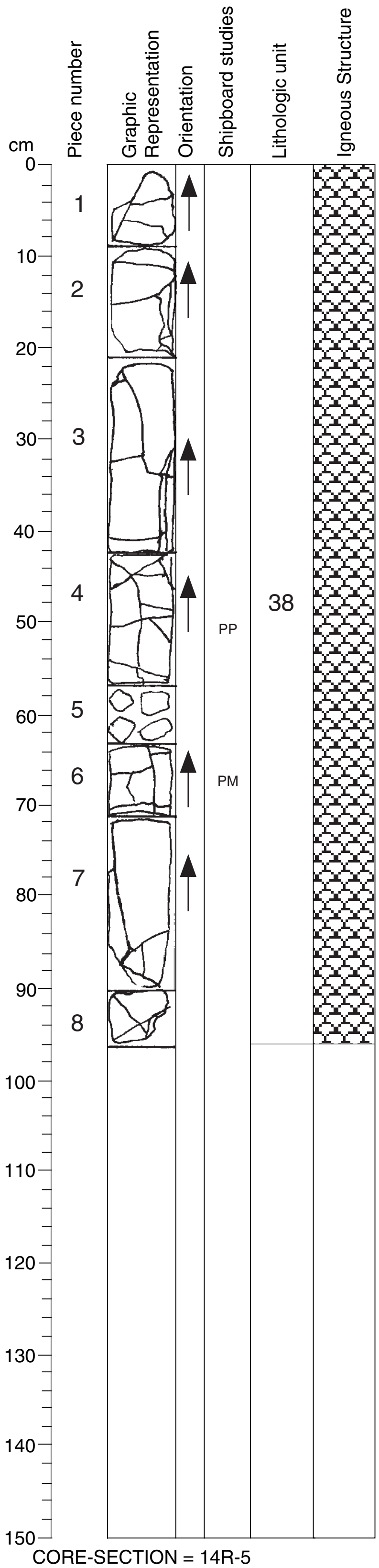
ALTERATION: Slightly altered (<10%), dark gray.

VEINS/FRACTURES: 57 veins, filled with carbonate and/or saponite, 0.1-7 mm, disseminated throughout unit, oriented vertical to subhorizontal, some associated with minor pyrite and/or iron-oxide. Thin veins of pyrite occur between the interval of 81 and 90 cm. Some veins associated with iron-oxide halos (1-3 mm).

COMMENTS: Glomerocrysts of plagioclase.

Core Photo

185-801C-14R-5 **Section top: 609.46 (mbsf)**



UNIT 38: APHYRIC BASALT

Pieces: 1-8

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.5	1	1.2	euhedral laths

GROUNDMASS: Fine grained.

COLOR: Gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals (mainly carbonate).

STRUCTURE: Flow.

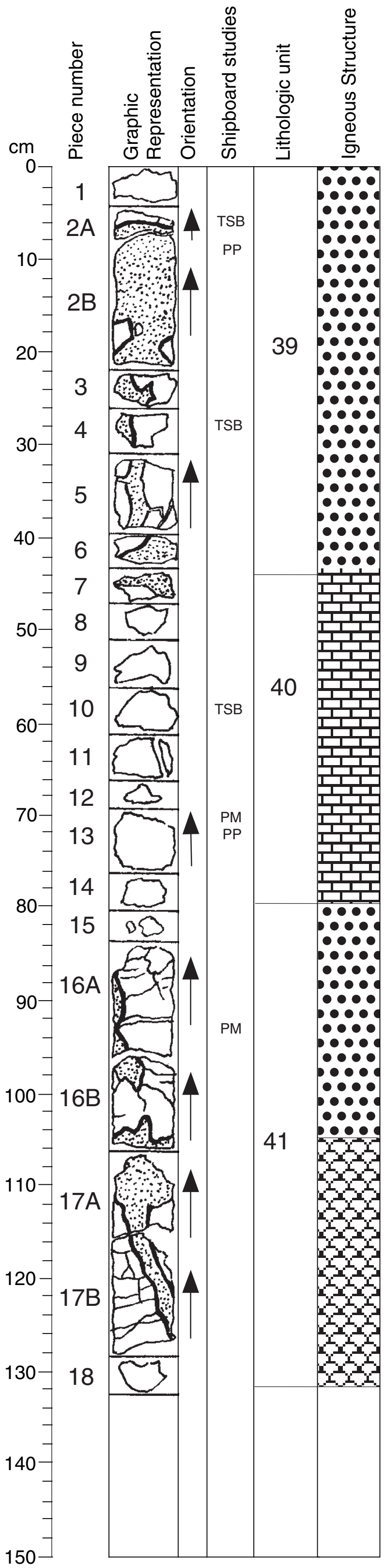
ALTERATION: Slightly altered (<10%), dark gray.

VEINS/FRACTURES: 34 occurences, filled by secondary carbonate and/or saponite, 0.1-4 mm, disseminated throughout unit, oriented vertical to subhorizontal, some associated with minor pyrite and/or iron-oxide.

COMMENTS: A highly altered green pebble occurs within piece 5.

Core Photo

185-801C-15R-1 **Section top: 613.7 (mbsf)**



CORE-SECTION = 15R-1

UNIT 39: APHYRIC BASALT

Pieces: 1-6

CONTACTS: Chilled pillow margins in piece 2A, 2B, 3, 4, 5 and 6.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2.0	1.0	1.5	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Greenish gray to dark greenish gray.

VESICLES: 1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows with brecciated interpillow material.

ALTERATION: Mostly gray green (<20% alt.) moderately altered basalt, local pale green more intensely altered (<30%) .

VEINS/FRACTURES: None.

UNIT 40: CHERT

Pieces: 7-14

CONTACTS: None observed.

COLOR: Reddish brown to strong brown, dark green.

STRUCTURE: Interpillow sediment.

VEINS/FRACTURES: None.

COMMENTS: Pieces 8 through 15 contain red (10 R 4/6) to dusky red (10 R 3/2) chert of sedimentary origin. In Piece 8, red chert shows botryoidal texture and fibrous intergrowth structures with clear and yellowish material. Piece 9 has similar red material. Yellowish brown material contains several spherical objects filled with clear cement that may be radiolarians. Piece 10 is similar to Piece 9 but has more yellowish material and has revealed radiolarian remains in thin section. In Piece 11, red material contains spherical structures with yellowish outline. Yellowhish material contains many sperical blebs. Piece12 through 14 are mostly made up of red material similar to overlying pieces, but also contain material with coarser texture imparted by spherical alteration blebs with radiaxial infill.

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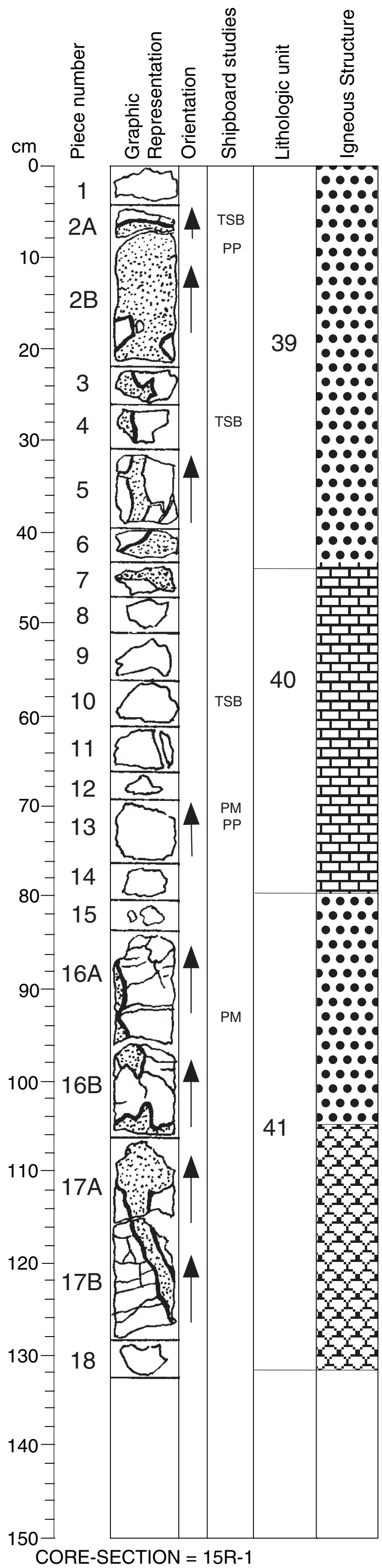
Core Photo

185-801C-15R-1 (Continued)



UNIT 41: APHYRIC BASALT and CHERT

Pieces: 15-18

CONTACTS: Chilled margins.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1%	2.0	0.5	0.5	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Greenish gray to dark gray basalt with white, brownish red and grayish green interpillow material.

VESICLES: 1-2%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows and interpillow material (chert).

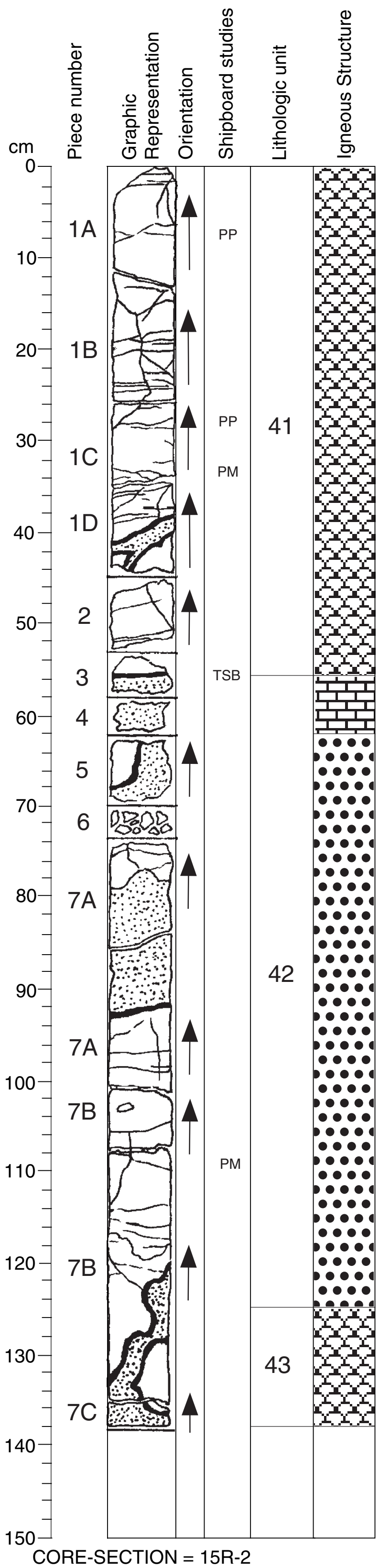
ALTERATION: Grades from green gray zone (<25% altered) to a much less altered dark gray (10% altered) through a gray green zone (15-20% altered).

VEINS/FRACTURES: 19 vertical to subhorizontal carbonate filled veins, 0.1-6 mm width, associated with celadonite to 15R-1 103 cm (≤50% by volume). Below 103 cm veins occur with or without saponite. Many veins associated with either green or brown iron-oxide halos extending outward 1 mm to 1 cm.

COMMENTS: Highly variable unit. Red fill material in Pieces 15 through 17B (chert) between pillows is chert of potential sedimentary origin. similar to overlaying unit. One red fragment in Piece17B contains clear spherical blebs.

Core Photo

185-801C-15R-2 **Section top: 615.02 (mbsf)**



UNIT 41: APHYRIC BASALT

Pieces: 1-3

CONTACTS: Chilled margin in piece 3.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1%	2.0	0.5	1.0	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Greenish gray to dark gray basalt with white, brownish red and grayish green interpillow material.

VESICLES: 1-2%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows and breccia.

ALTERATION: Slightly to moderately altered (5-15%), gradational transition from dark gray to gray green.

VEINS/FRACTURES: 45 vertical to subhorizontal carbonate filled veins, 0.1-4 mm width, +/- saponite +/- pyrite +/- Fe-oxyhydroxide.

UNIT 42: INTERPILLOW MATERIAL

Pieces: 3-7A

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	0.5	euhedral laths

GROUNDMASS: Microcrystalline in pillows.

COLOR: Greenish gray pillow fragments, strong brown, brownish red and grayish green interpillow material.

VESICLES: None.

STRUCTURE: Breccia.

ALTERATION: Slightly to moderately altered (10-15%) with more intense alteration close to pillow rims, characterised by pale green and brown alteration (<55%).

VEINS/FRACTURES: None.

COMMENTS: Pieces 3 and 4 are chert and may be of sedimentary origin. Piece 3 displays an irregularly layered stucture below a contact with a pillow basalt. Next to the basalt is a 3 to 4 mm thick dark gray layer that contains spherical and variously concave-shaped chips of greenish material, probably from the chilled basalt margin. Below this is a dusky red layer. Next is an irregular zone of greenish to yellowish material that contains several spherical blebs. This material grades into reddish brown material with numerous spherical blebs. One of these sperical objects displays a kind of spines at about 90° angles that might be a radiolarian. Piece 4 has more yellowish material. This contains one spherical object with a reddish outline that may be a radiolarian.

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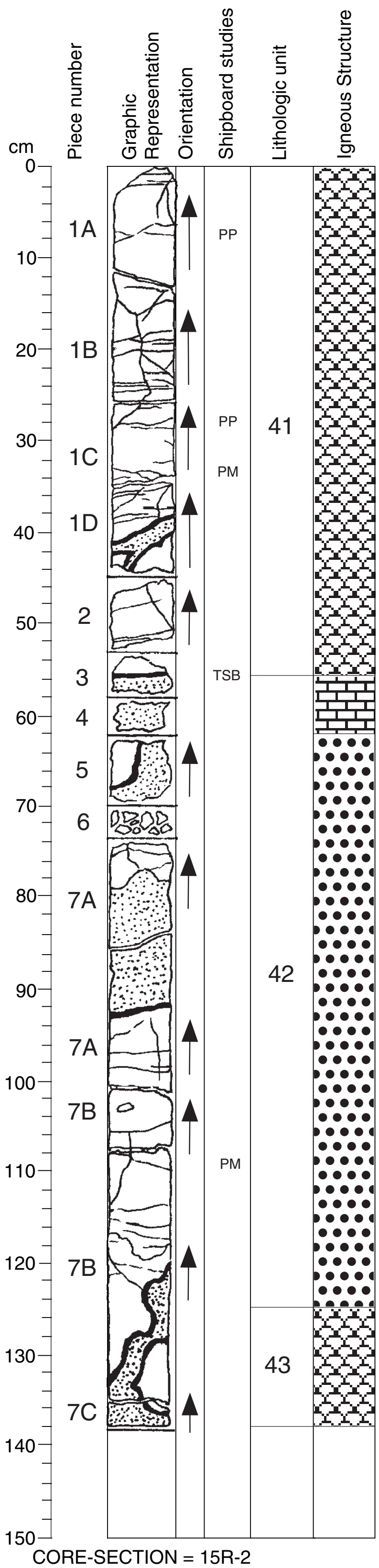
Core Photo

185-801C-15R-2 (Continued)



UNIT 43: APHYRIC BASALT

Pieces: 7A-7C

CONTACTS: Straight on top, chilled margins between pillows.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	2	1	0.5	0.8	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Dark gray to greenish gray pillows with green and red interpillow material.

VESICLES: 1%; 0.1-0.2 mm in size; filled with secondary minerals.

STRUCTURE: Pillows and brecciated interpillow material.

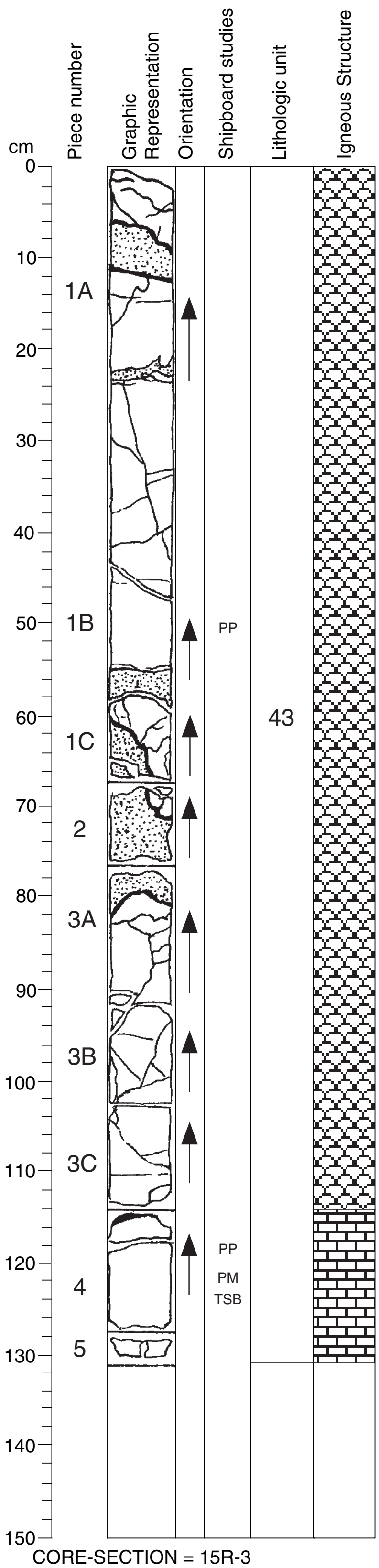
ALTERATION: Slightly altered with small and locallized amounts of moderately altered gray green, green gray.

VEINS/FRACTURES: 18 veins, randomly oriented, 0.1-1 mm width, filled with carbonate and/or saponite, +/-Fe-oxyhydroxide +/- celadonite.

COMMENTS: Plagioclase phenocrysts occur clustered.

Core Photo

185-801C-15R-3 **Section top: 616.4 (mbsf)**



UNIT 43: APHYRIC BASALT and CHERT

Pieces: 1A-5

CONTACTS: Chilled margins.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Plagioclase	1	2.0	0.5	1.0	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Dark gray to greenish gray pillows with green and red interpillow material.

VESICLES: 1%; 0.1-0.2 mm in size; filled with secondary minerals.

STRUCTURE: Pillows and breccia.

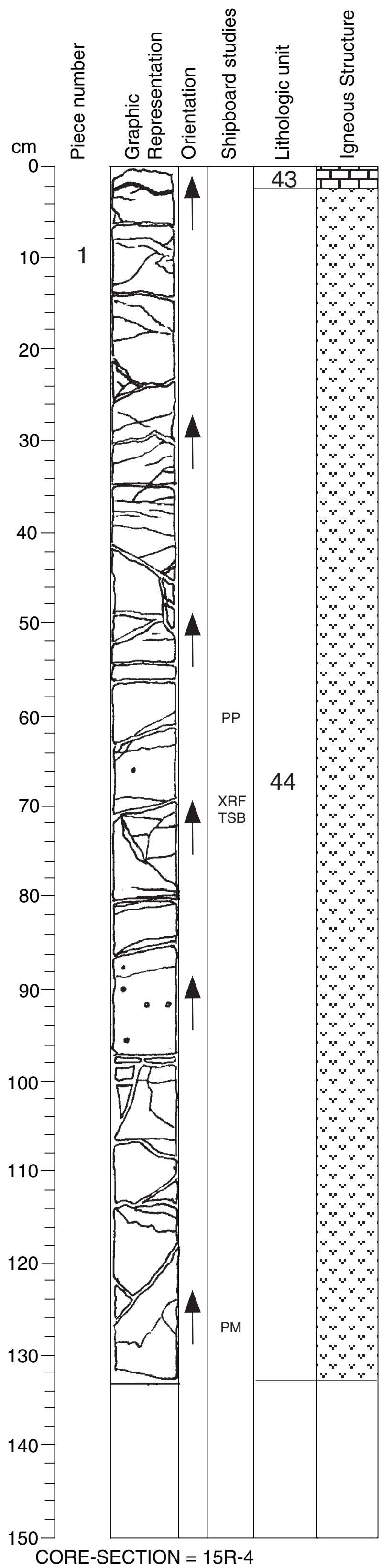
ALTERATION: Slightly altered dark gray (<10%), with localized moderately altered gray green, green gray.

VEINS/FRACTURES: 17 veins, randomly oriented, 0.1-2 mm width, filled with carbonate and/or saponite, +/-brown clay (smectite?) +/- Fe-oxyhydroxide.

COMMENTS: Section has several intervals that contain brecciated interpillow material that may be of sedimentary origin. Piece 1A, has light gray to greenish gray material with globular structure produced by recrystallized carbonate. Pieces 1B, 1C, 2, and 3A contain intervals with irregular mixtures of dusky red, light greenish gray, and dusky green chert cut by carbonate veins. Pieces 4 and 5 are mostly dusky red-colored (10 R 3/3). Rest is greenish gray. Overall fabric is coarser than red material in overlying intervals due to abundant sub- milimeter-sized carbonate blebs. Thin section from Piece 4 has revealed cherty matrix with rare, but unambiguous radiolarians (both cone-shaped and spherical forms) and fecal pellets.

Core Photo

185-801C-15R-4 **Section top: 617.72 (mbsf)**



UNIT 43: APHYRIC BASALT and CHERT

Pieces: 1 (upper 2 cm)

CONTACTS: None observed.

PHENOCRYSTS: None.

GROUNDMASS:

COLOR: Red.

VESICLES: None.

STRUCTURE: Interpillow material.

COMMENTS: Upper 2 cm of piece 1 consist of dusky red (10 R 3/3) to week red (10 R 4/3) chert with carbonate blebs similar to the sediment at the bottom of the overlying section.

UNIT 44: APHYRIC BASALT

Pieces:1

CONTACTS: Chilled margin at top of section.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	1	2.0	0.5	0.8	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Dark gray to greenish gray pillows with green and red interpillow material.

VESICLES: 1%; 0.1-1 mm in size; filled with secondary minerals.

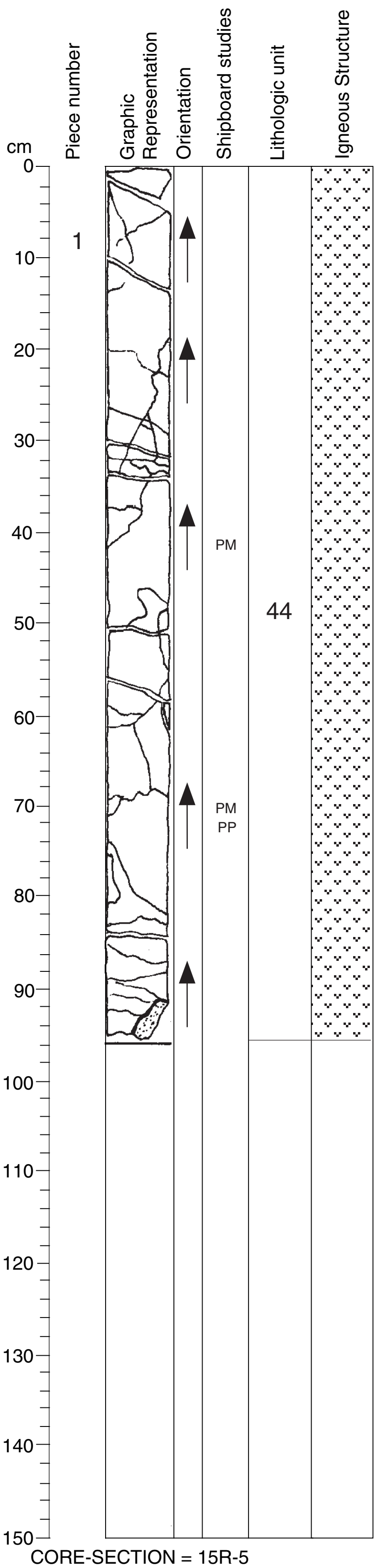
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray basalt (<10%).

VEINS/FRACTURES: 38 veins, randomly oriented, 0.1-2 mm width, filled with white carbonate and/or saponite +/- celadonite. Also, minor occurences of pyrite and/or brown clay (smectite?).

Core Photo

185-801C-15R-5 **Section top: 619.03 (mbsf)**



UNIT 44: APHYRIC BASALT

Pieces: 1

CONTACTS: Chilled margin at bottom.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	0-2	1.0	0.5	1.0	euhedral laths
Pyroxene	<1	0.5	1	0.7	euhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray to greenish gray.

VESICLES: 1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Flow or pillow.

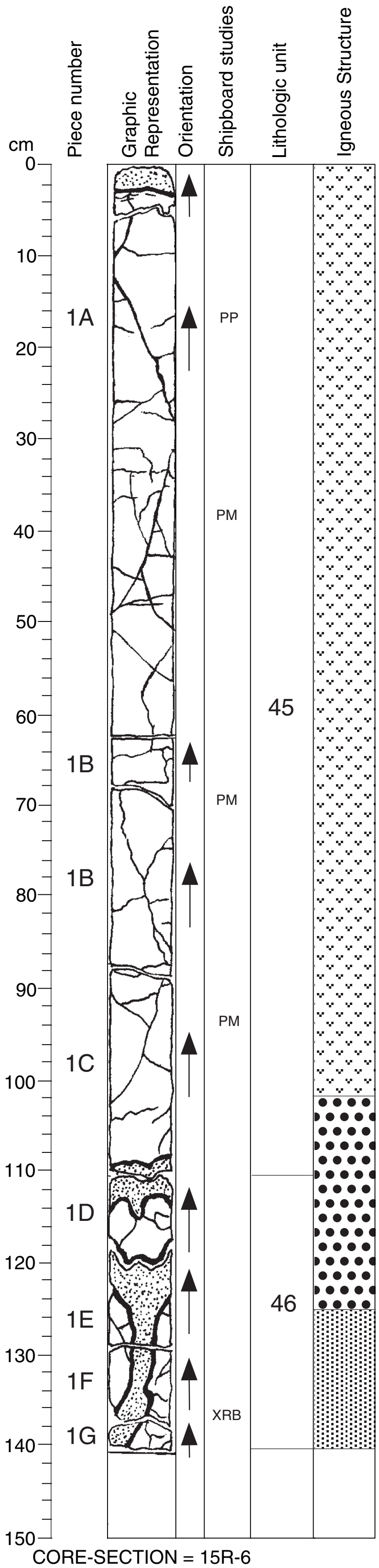
ALTERATION: Gray green moderately altered (<15%).

VEINS/FRACTURES: 31 randomly oriented veins, 0.1-3 mm width, filled by carbonate and/or saponite, +/-celadonite +/- pyrite.

COMMENTS: Red interflow material at bottom margin (91-95cm); phenocrysts are mainly visible at altered bottom of section.

Core Photo

185-801C-15R-6 **Section top: 619.97 (mbsf)**



UNIT 45: APHYRIC BASALT

Pieces: 1A-1C

CONTACTS: Chilled margins at top and bottom.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	1.0	euhedral
Pyroxene	0-1	1.5	0.5	1.0	euhedral

GROUNDMASS: Hypocrystalline.

COLOR: Dark gray.

VESICLES: 1%; 0.5 in size; filled with secondary minerals.

STRUCTURE: Pillow.

ALTERATION: Variably altered from mostly dark gray, gray green,green gray, and brown.

VEINS/FRACTURES: 31 randomly oriented veins, 0.1-3 mm width, filled by carbonate and/or saponite, +/-celadonite +/- iron-oxide +/- brown clay (smectite?). 1 - 4 mm iron-oxide halos present.

COMMENTS: Red interpillow material and basalt breccia at top of flow; phenocrysts mainly at top and bottom of section.

UNIT 46: APHYRIC BASALT

Pieces: 1C

CONTACTS: Chilled margins at pillowrims.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1-2	1.0	0.5	1.0	ehhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Light greenish gray pillows, brownish red and green interpillow material.

VESICLES: 1%, 0.5 in size.

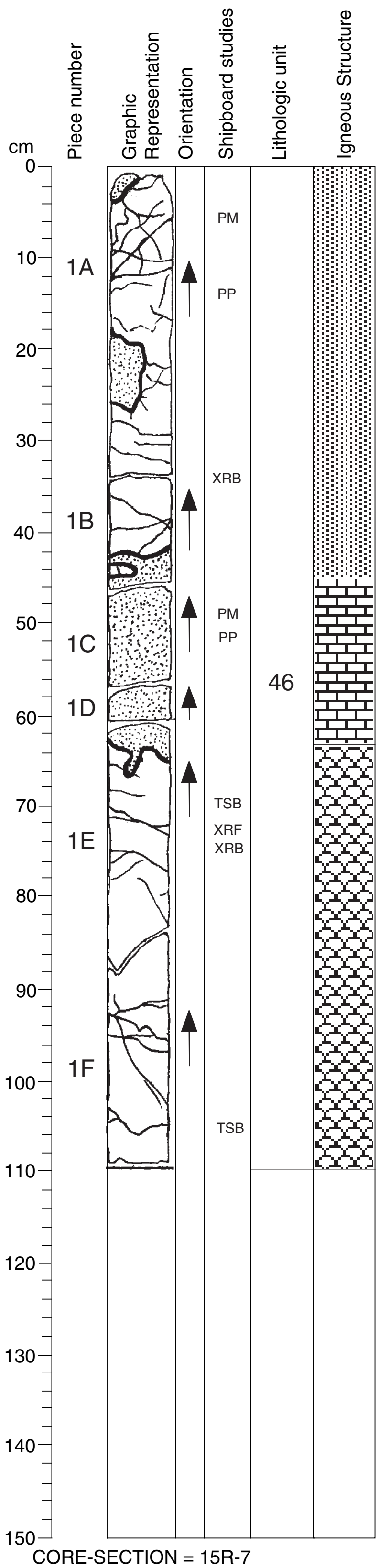
STRUCTURE: Pillows and interpillow material.

ALTERATION: Variably altered from mostly dark gray, gray green,green gray, and brown.

VEINS/FRACTURES: None.

Core Photo

185-801C-15R-7 **Section top: 621.38 (mbsf)**



UNIT 46: APHYRIC BASALT

Pieces: 1A-1F

CONTACTS: Chilled pillow margins.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1-2	1.0	0.6	1.0	euhedral laths

GROUNDMASS: Microcrystalline.

COLOR: Light greenish gray to dark gray pillows, brownish red and green interpillow material.

VESICLES: 1%; 0.5 in size; filled with secondary material.

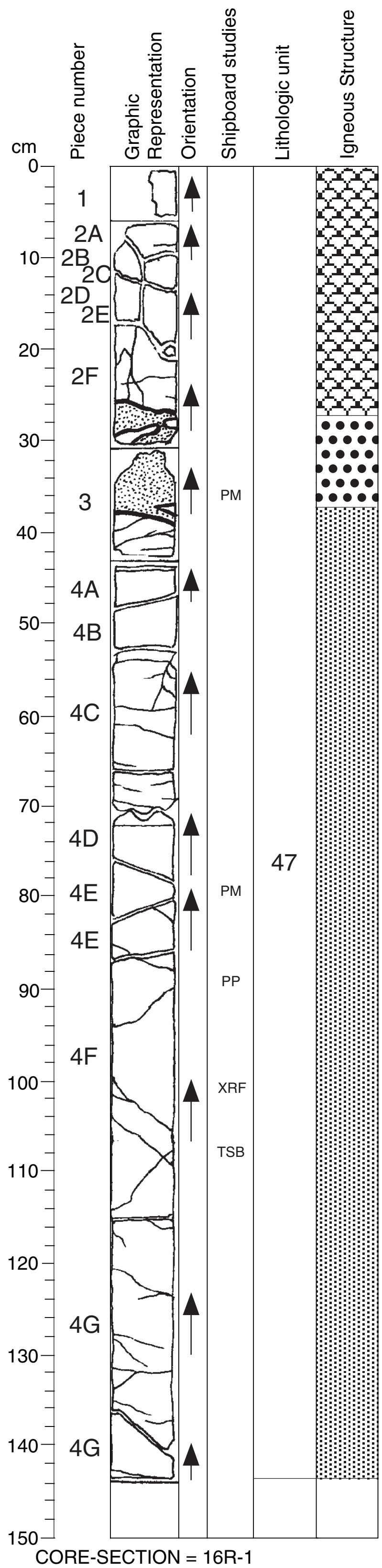
STRUCTURE: Pillows, interpillow material.

ALTERATION: Strongly altered pale green with locallized amounts of gray green,green gray, and brown.

VEINS/FRACTURES: 32 veins, randomly oriented, 0.1 to 6 mm width, filled with carbonate and/or saponite, +/- celadonite +/- iron-oxide +/-pyrite. Many of these veins have iron-oxide halos (extending up to 5 mm away from vein). 6 mm vein at top of section appears to be chloritized basalt.

Core Photo

185-801C-16R-1 **Section top: 623.3 (mbsf)**



UNIT 47: APHYRIC BASALT

Pieces: 1-4G

CONTACTS: Chilled margins in piece 2.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	2-5	0.5	1.0	0.8	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark greenish gray.

VESICLES: 2%; 0.2-0.5 mm in size; filled with secondary minerals.

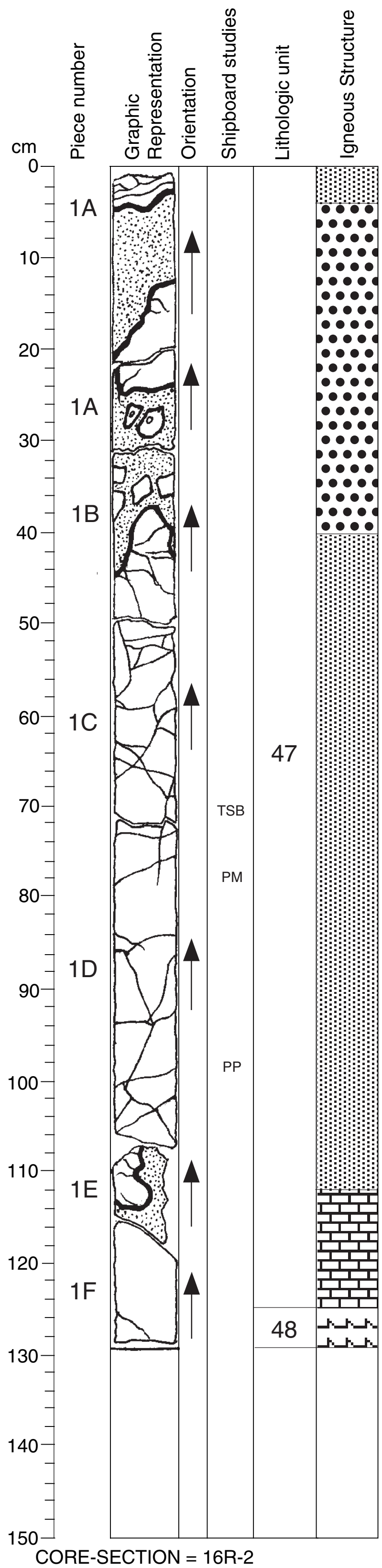
STRUCTURE: Flow or pillows.

ALTERATION: Slightly altered dark gray, with some moderately altered areas of pale green, and green gray.

VEINS/FRACTURES: 30 veins, randomly oriented, 0.1 – 2.5 mm. Saponite filled veins from top of 16R-1 to 23 cm. Carbonite filled veins from 31 cm to 46 cm. Below 46 cm veins are filled by saponite or carbonate +/-celadonite.

Core Photo

185-801C-16R-2 **Section top: 624.74 (mbsf)**



UNIT 47: APHYRIC BASALT

Pieces: 1A-1F

CONTACTS: Chilled margins.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	0-2	1.0	0.5	1.0	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Gray, pale green at lower end.

VESICLES: <1%; 0.1mm in size; filled with secondary minerals.

STRUCTURE: Massive flow with interflow breccia.

ALTERATION: Dominantly strongly altered pale green with small amounts of green gray and brown.

VEINS/FRACTURES: 25 veins, randomly oriented,0.1 – 2 mm, filled by carbonate +/- saponite +/- pyrite +/-chlorite (?). Possible chlorite veins between the interval of 50 – 59 cm.

UNIT 48: HYDROTHERMAL DEPOSIT

Pieces: 1F

CONTACTS: None observed.

GROUNDMASS: Dense chert.

COLOR: Olive yellow to olive brown.

VESICLES: None.

STRUCTURE: Layered, sedimentary deposit.

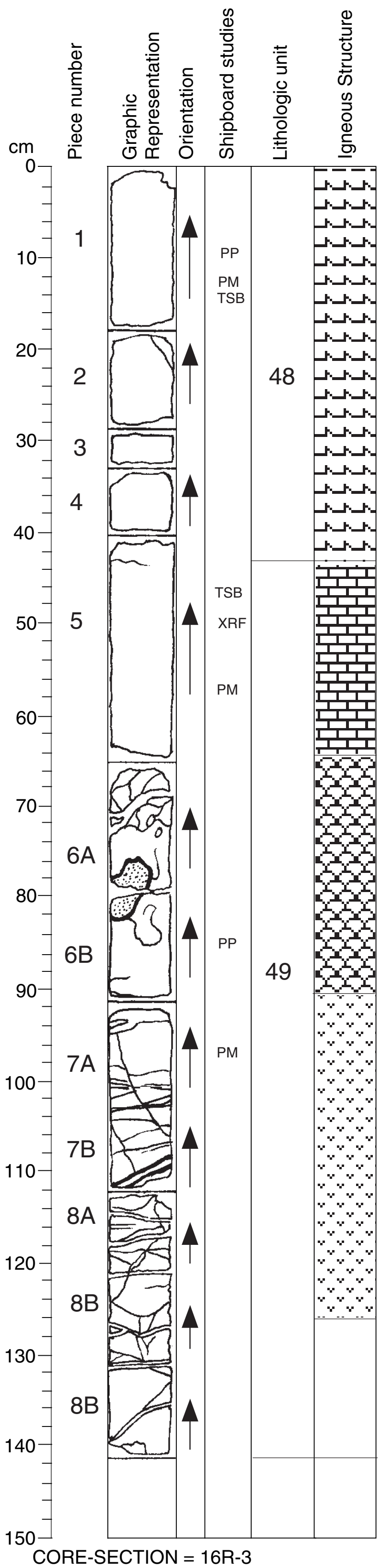
ALTERATION:

VEINS/FRACTURES: None.

COMMENTS: Banding defines zones of porous and dense material.

Core Photo

185-801C-16R-3 **Section top: 626.04 (mbsf)**



UNIT 48: HYDROTHERMAL DEPOSIT

Pieces: 1-5

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Dense chert.

COLOR: Olive yellow with olive brown parts.

VESICLES: None.

STRUCTURE: Layered, sedimentary deposit.

ALTERATION:

VEINS/FRACTURES: None.

UNIT 49: APHYRIC BASALT

Pieces: 5

CONTACTS: Chilled margins.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1%	1.0	0.5		1.0euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark greenish gray.

VESICLES: 1%, often less; 0.1 mm in size; filled with secondary minerals.

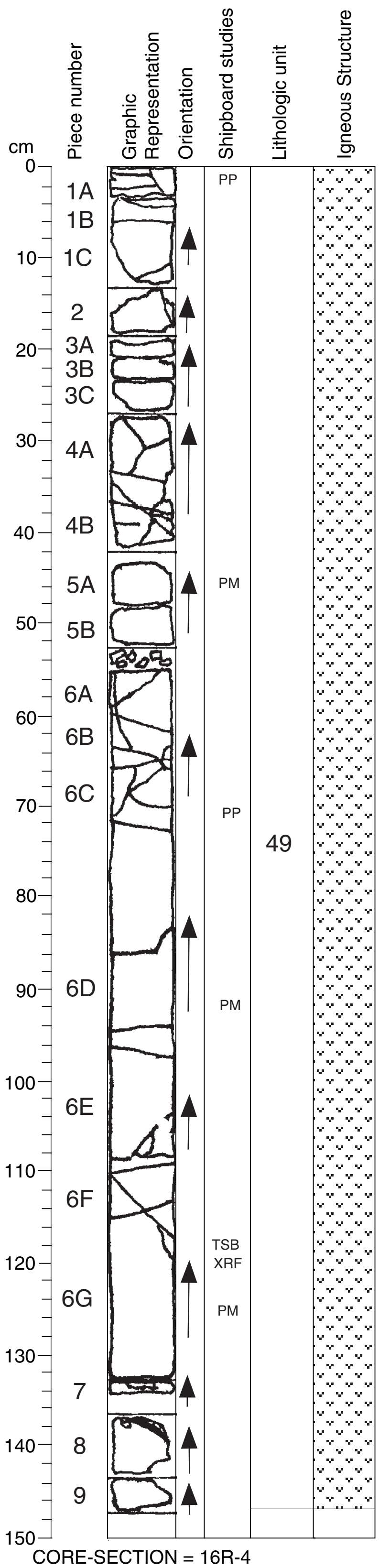
STRUCTURE: Massive flow and pillows with interlayer- breccia.

ALTERATION:

VEINS/FRACTURES: 33 subhorizontal to vertical veins, 0.1 – 8 mm, filled by carbonate +/- saponite and rarely pyrite. Between the interval of 129-133 cm, two celadonite filled veins are present.

Core Photo

185-801C-16R-4 **Section top: 627.43 (mbsf)**



UNIT 49: APHYRIC BASALT

Pieces: 1-9

CONTACTS: Glassy contacts in piece 8.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1%	1.0	0.5	1.0	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Gray to very dark gray.

VESICLES: 1%, often less; 0.1 mm in size; filled with secondary minerals.

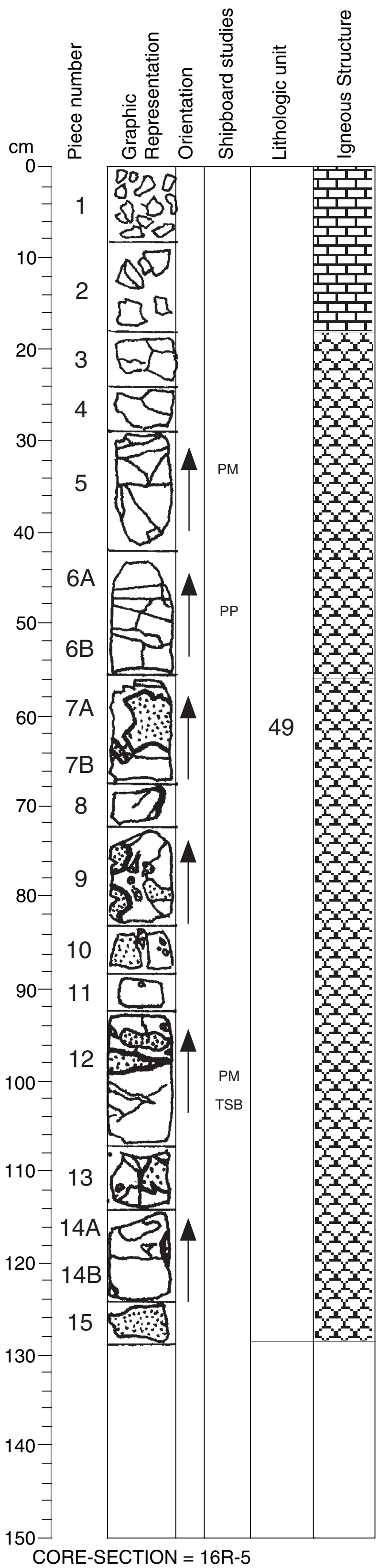
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with very little brown.

VEINS/FRACTURES: 27 subhorizontal to vertical veins, 0.1-2.5 mm, filled with carbonate +/- saponite +/-pyrite +/- quartz.

Core Photo

185-801C-16R-5 **Section top: 628.88 (mbsf)**



UNIT 49: APHYRIC BASALT

Pieces: 1-15

CONTACTS: Glassy contacts in piece 2.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	1.0	euhedral laths

GROUNDMASS: Hypocrystalline

COLOR: Light gray to very dark gray.

VESICLES: 1%, often less; 0.2 mm in size; filled with secondary minerals.

STRUCTURE: Pillows with inclusions of breccia.

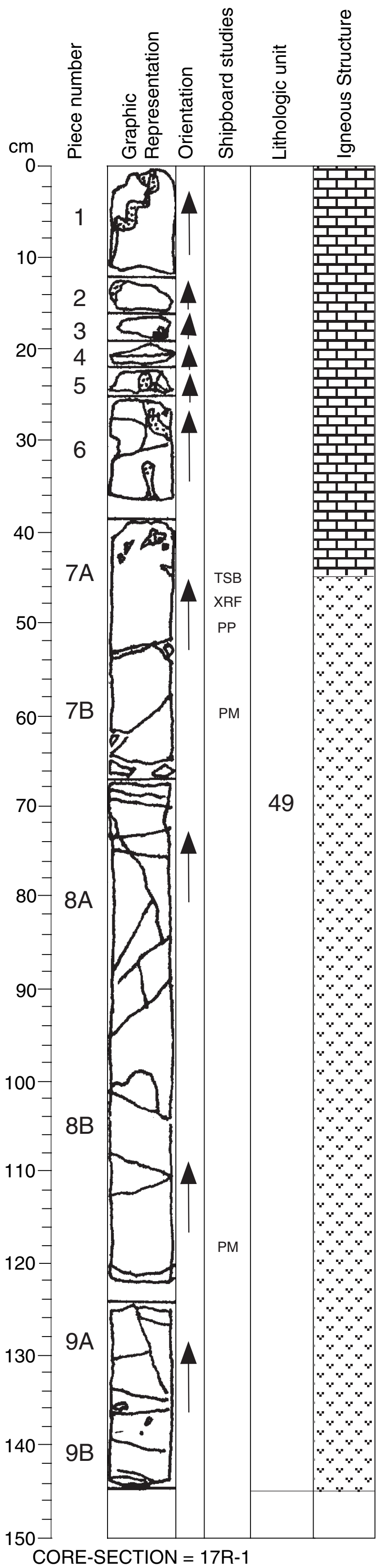
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 23 randomly oriented veins, 0.1-3 mm. Most are carbonate filled +/- saponite.

COMMENTS: Interpillow chert in piece 2.

Core Photo

185-801C-17R-1 **Section top: 632.8 (mbsf)**



UNIT 49: APHYRIC BASALT

Pieces: 1-9B

CONTACTS: Intra-flow glassy contacts.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2.5	1.0	1.0	euhedral laths

GROUNDMASS: Hypocrystalline in dark parts, microcrystalline in lighter parts.

COLOR: Light gray at bottom to very dark gray at top.

VESICLES: <1%; 0.1-0.5 mm in size; filled with secondary minerals.

STRUCTURE: Flow breccia with incorporated sediment; massive from piece 7 downsection.

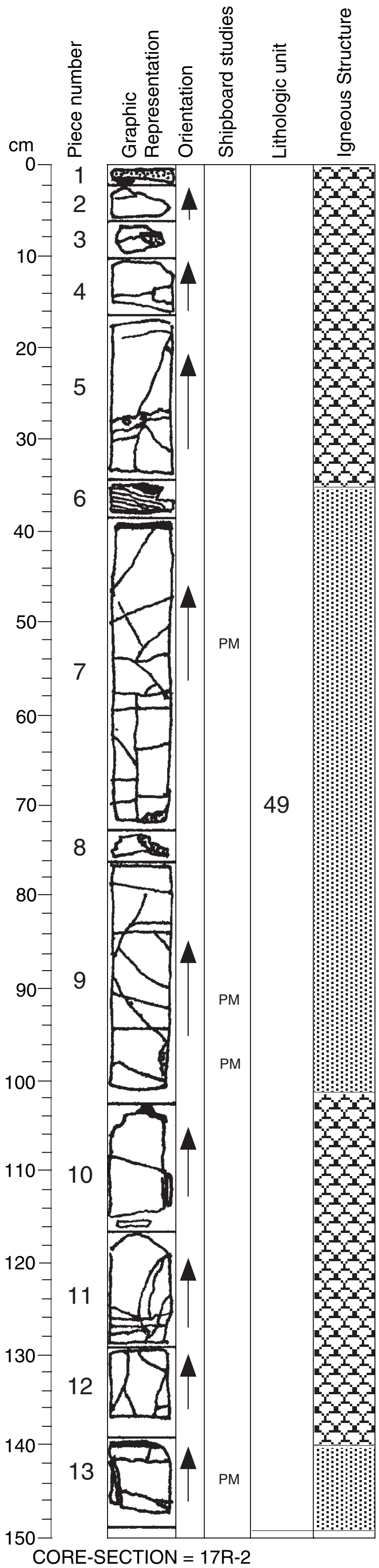
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 30 veins, randomly oriented, 0.1-1 mm, carbonate and/or saponite, +/- pyrite +/- Fe-oxyhydroxide.

COMMENTS: Massive basalt from piece 7A-9B; interpillow chert in piece 3, 6 and 7A.

Core Photo

185-801C-17R-2 **Section top: 634.24 (mbsf)**



UNIT 49: APHYRIC BASALT

Pieces: 1-13

CONTACTS: Glassy contacts in piece 3, 6, 10, 13.

PHENOCRYSTS:	% Mode	Grain Size (mm):	Max	Min	Avg.Shape/Habit
Plagioclase	<1	1.0	0.8	1.0	subhedral

GROUNDMASS: Microcrystalline in light parts; hypocrystalline in dark parts.

COLOR: Light gray to greenish gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Flow and pillows.

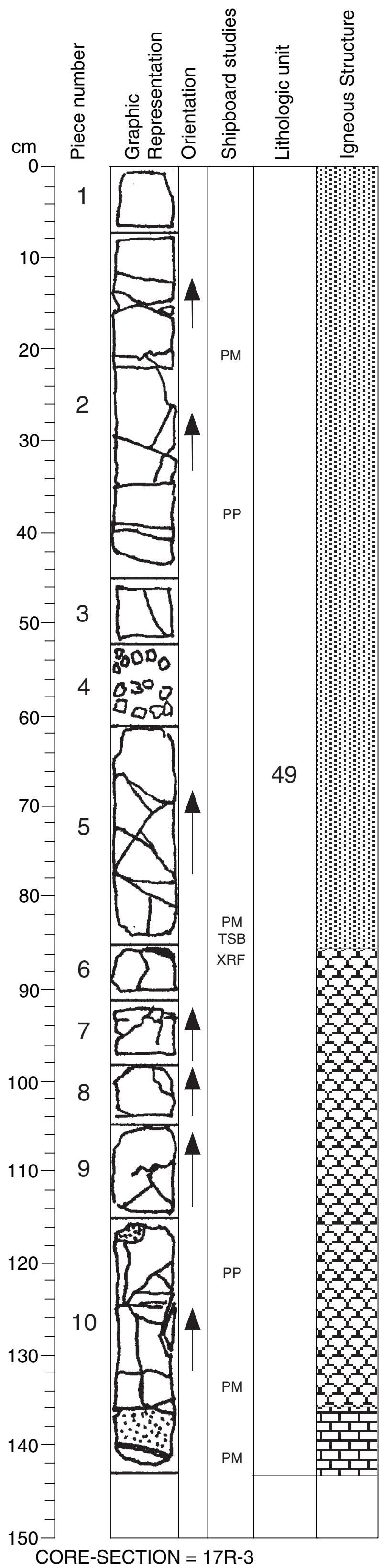
ALTERATION: From purely dark gray to dominant dark gray with small amounts of gray green.

VEINS/FRACTURES: 54 veins, subhorizontal to vertical, 0.1-9 mm, filled by carbonate and/or saponite, +/-minor amounts of pyrite. Minor occurences of celadonite in veins below 120 cm.

COMMENTS: Hyaloclastite in piece 6, chert in piece 3.

Core Photo

185-801C-17R-3 **Section top: 635.73 (mbsf)**



UNIT 49: APHYRIC BASALT

Pieces: 1-10

CONTACTS: glassy contacts in piece 6; thick green interflow layer at bottom of section

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Pyroxene	<1	1.0	0.5	0.7	subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Light gray on top to very dark gray at bottom.

VESICLES: <1%; 0.1-0.5 mm in size; filled with secondary minerals.

STRUCTURE: Flow and pillows.

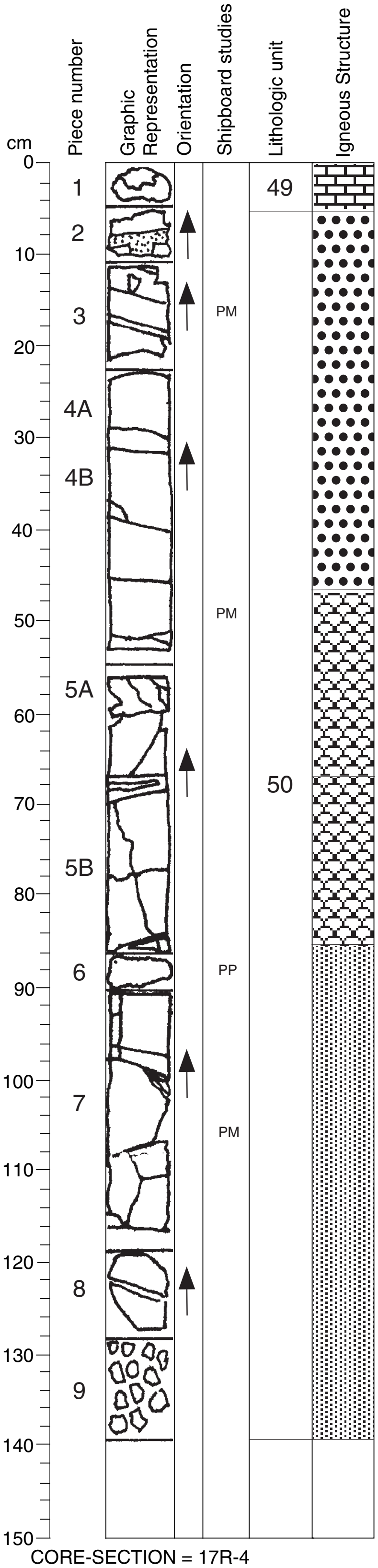
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 31 subhorizontal to vertical veins, 0.1-1.2 mm, filled by saponite and/or carbonate and/or pyrite.

COMMENTS: interpillow chert in piece10.

Core Photo

185-801C-17R-4 **Section top: 637.18 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-9

CONTACTS: Straight contacts between basalt and in interflow/pillow material in piece 1-4.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2.0	0.5	1.0	euhedral laths
Pyroxene	<<1	0.5	0.5	0.5	euhedral

GROUNDMASS: Microcrystalline in light parts, hypocrystalline in dark parts.

COLOR: Grayish black basalt on top; dark gray basalt on bottom; green interpillow material.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows, brecciated in pieces 1-4.

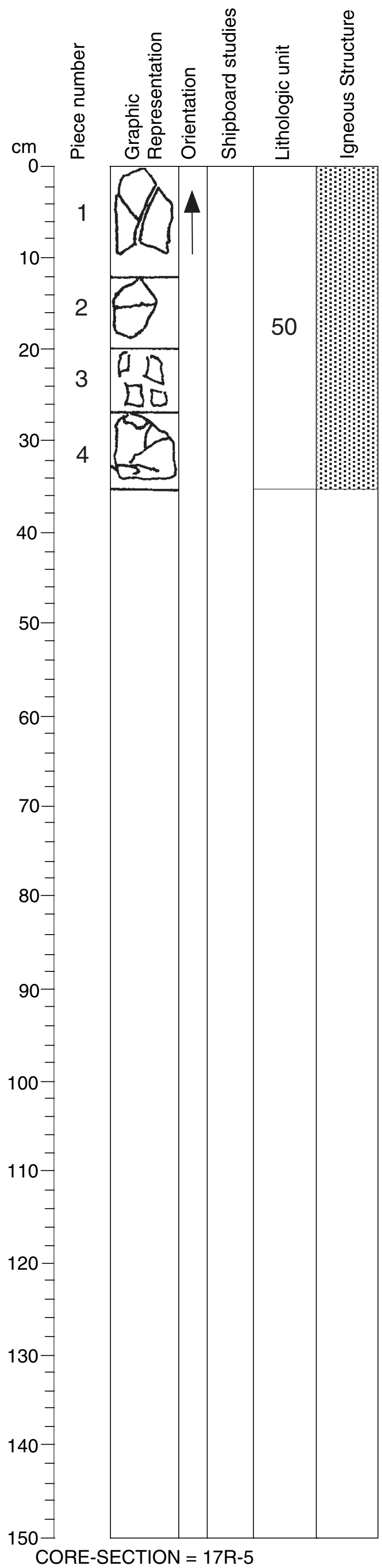
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 25 randomly oriented veins, 0.1-40 mm, filled by carbonate and/or saponite +/- minor pyrite and Fe-oxyhydroxide.

COMMENTS: Interpillow chert in piece 1.

Core Photo

185-801C-17R-5 **Section top: 638.55 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-4

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	1.0	euhedral laths
Pyroxene	<<1	1.0	0.5	0.5	euhedral

GROUNDMASS: Fine grained, microcrystalline to hypocrystalline.

COLOR: Dark gray to dark greenish gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows.

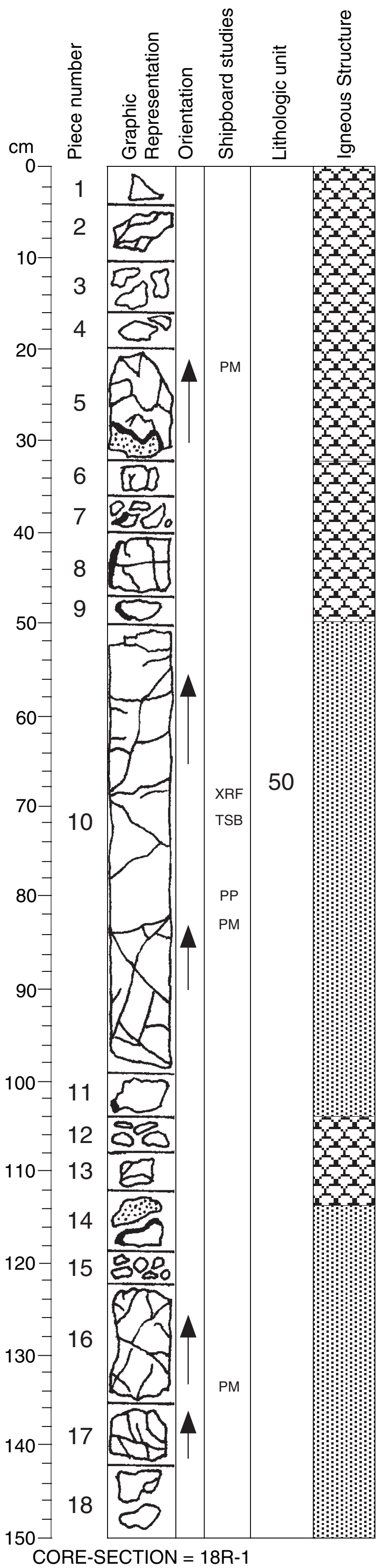
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 16 veins, randomly oriented, 0.1-5 mm, filled by saponite and/or carbonate, +/- Fe-oxyhydroxide +/- pyrite. Pyrite occurs in half of the observed veins.

COMMENTS: Green interflow material in section 4, pieces 1-4 and 6.

Core Photo

185-801C-18R-1 **Section top: 642.2 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-18

CONTACTS: Glassy contacts throughout.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Plagioclase	<1	1.2	0.5	0.8	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

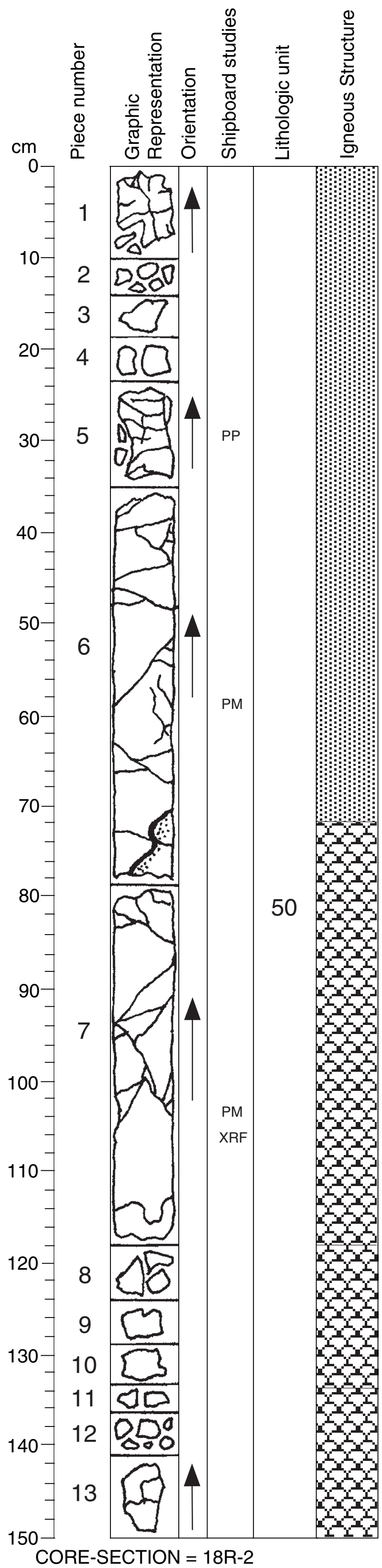
STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray; black halos in pieces 17 and 18.

VEINS/FRACTURES: 33 veins, most subhorizontal, 0.1-4 mm, filled by carbonate and/or saponite. Pyrite present in nearly half of the observed veins.

Core Photo

185-801C-18R-2 **Section top: 643.7 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces:1-13

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	0.5	0.5	0.5	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES:1%; 0.1 mm in size; filled with secondary minerals.

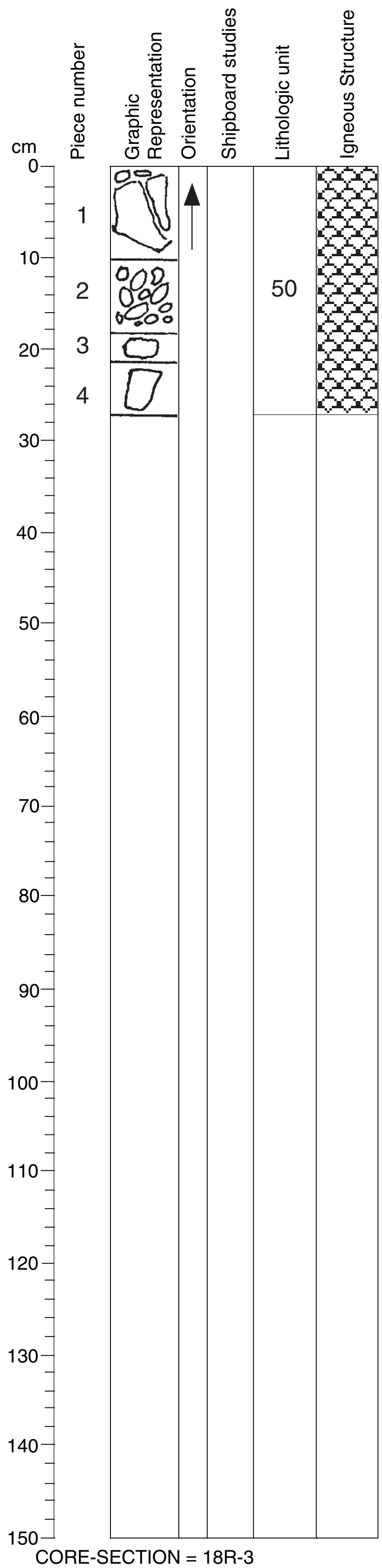
STRUCTURE: Flows.

ALTERATION: Slightly altered dark gray; black halo observed in piece 1.

VEINS/FRACTURES: 74 veins, 0.1-2 mm, subhorizontal to vertical orientation, filled by saponite and/or calcite, +/- pyrite +/- Fe-oxyhydroxide. One quartz bearing vein (~19%) at 72 – 77 cm.

Core Photo

185-801C-18R-3 **Section top: 645.2 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-4

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	0.5	0.5	0.5	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

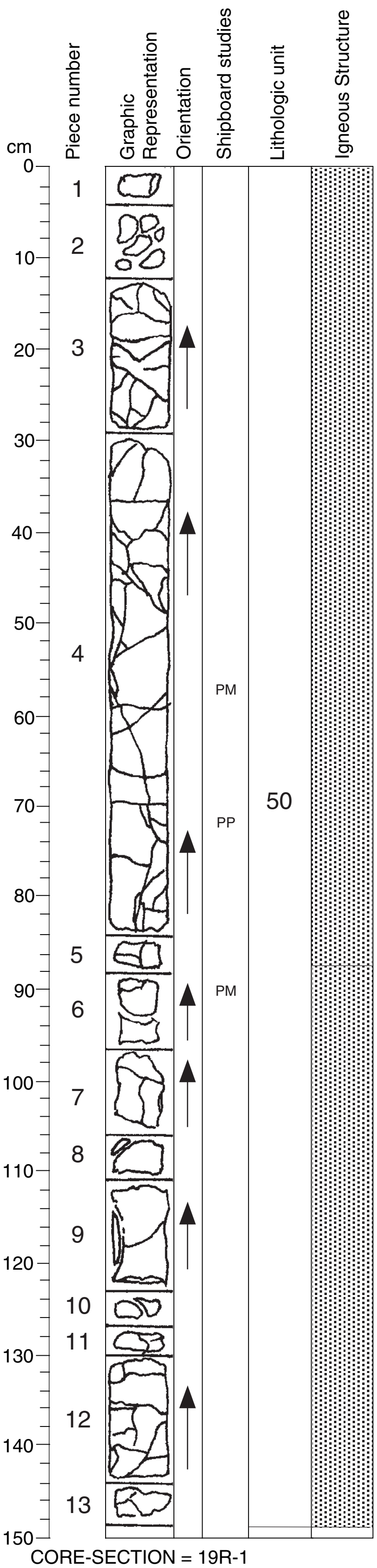
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 4 veins, 0.1-0.4 mm, saponite + calcite +/- pyrite +/- Fe-oxyhydroxide.

Core Photo

185-801C-19R-1 **Section top: 651.7 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-19

CONTACTS: Glassy contacts throughout.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2.5	0.5	0.5	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%, 0.1-1 mm in size; filled with secondary minerals.

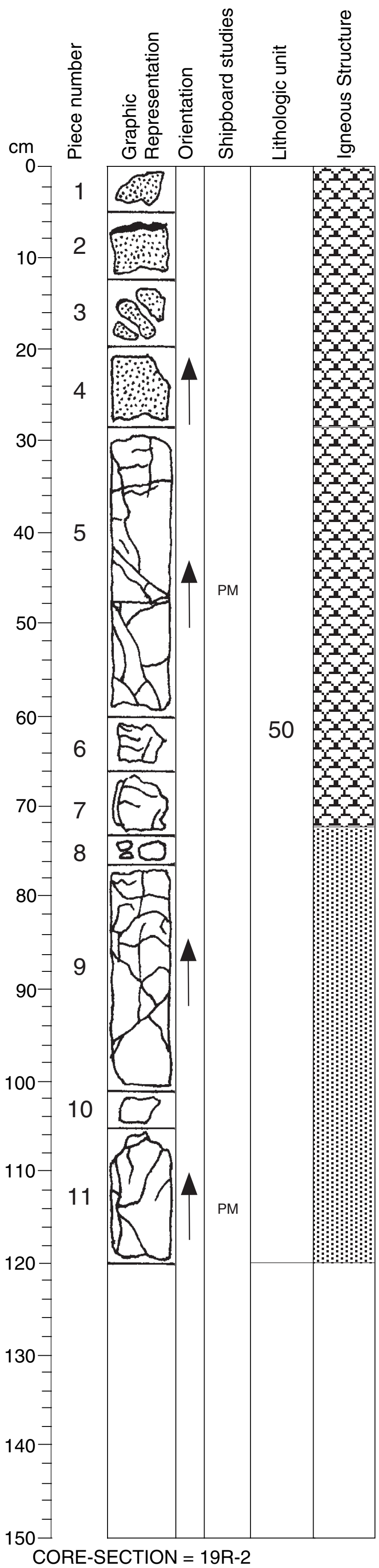
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 36 veins, randomly oriented, 0.1-3 mm width, filled by saponite +/- carbonate +/- pyrite +/- Fe-oxyhydroxide.

Core Photo

185-801C-19R-2 **Section top: 653.19 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-11

CONTACTS: Glassy contacts throughout.

PHENOCRYSTS:	% Mode	Grain Size (mm):	Max	Min	Avg.Shape/Habit
Plagioclase	<1	2	0.5	0.7	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; <0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows with interflow material.

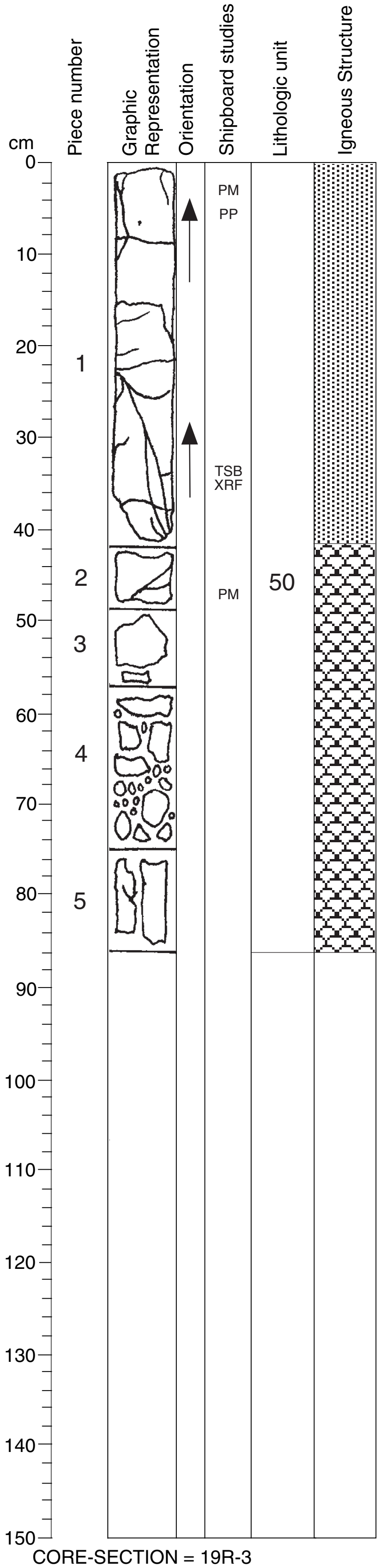
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 32 veins, randomly oriented, 0.1-0.9 mm, filled with saponite +/- carbonate +/- pyrite +/-Fe-oxyhydroxide.

COMMENTS: Hyaloclastite in pieces 1-4.

Core Photo

185-801C-19R-3 **Section top: 654.39 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-5

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.8	1.0	euhedral laths
Pyroxene (?)	<1			<1	subhedral, altered

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

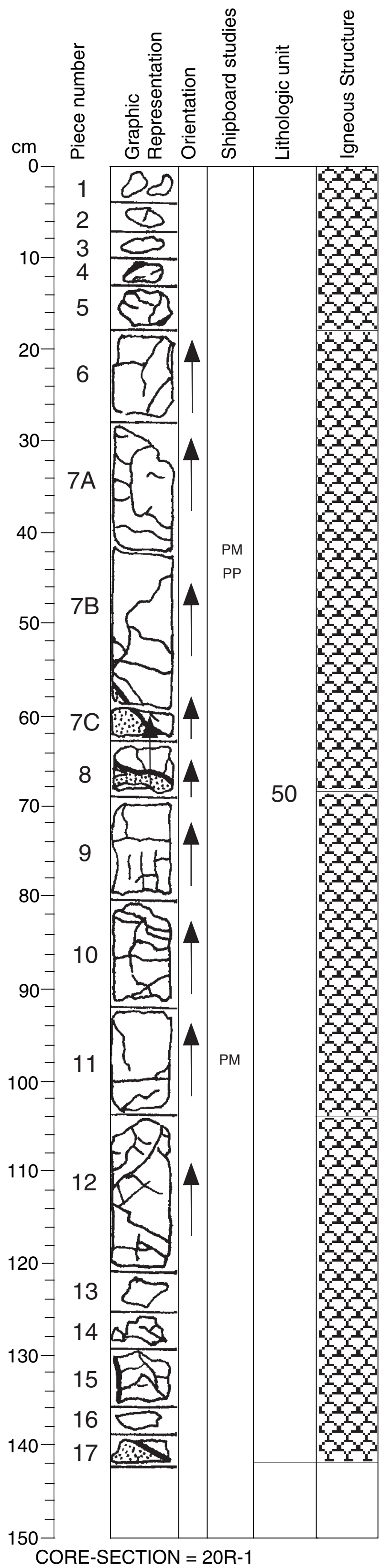
STRUCTURE: Flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 17 veins, randomly oriented, 0.1 – 1.6 mm width, filled with saponite +/- carbonate +/-pyrite +/- Fe-oxyhydroxide.

Core Photo

185-801C-20R-1 **Section top: 660.7 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-19

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	0.5	0.5	0.5	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1-0.5 mm in size; filled with secondary minerals.

STRUCTURE: Thin flow or pillow.

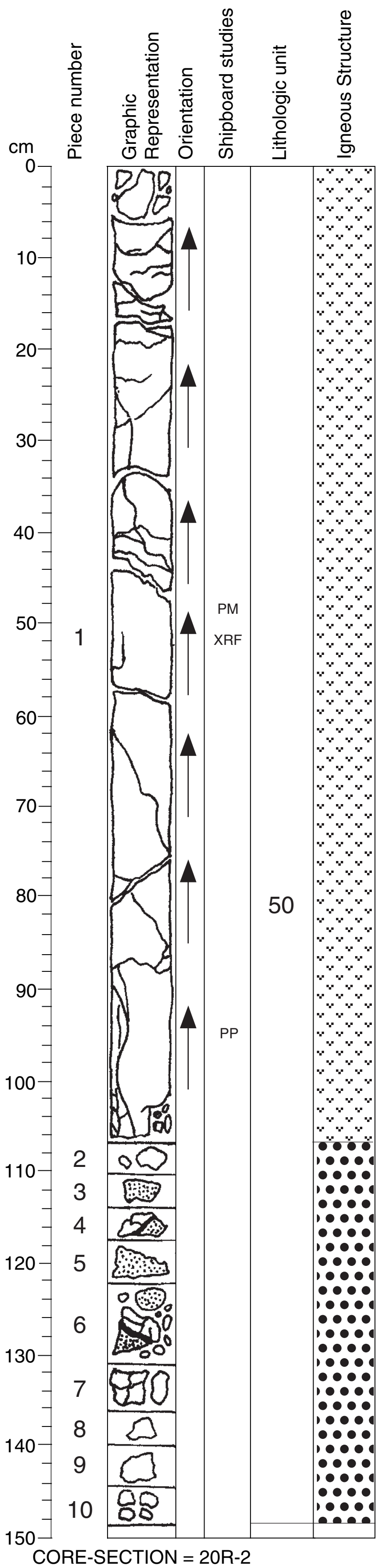
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 50 veins, randomly oriented, 0.1-6 mm width, filled with saponite +/-carbonate +/- pyrite +/- Fe-oxyhydroxide.

COMMENTS: Interflow material in section 2, pieces 3-6.

Core Photo

185-801C-20R-2 **Section top: 662.12 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces:1-11

CONTACTS: Glassy contacts throughout.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2.5	1.0	1.5	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1-1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows with interflow material.

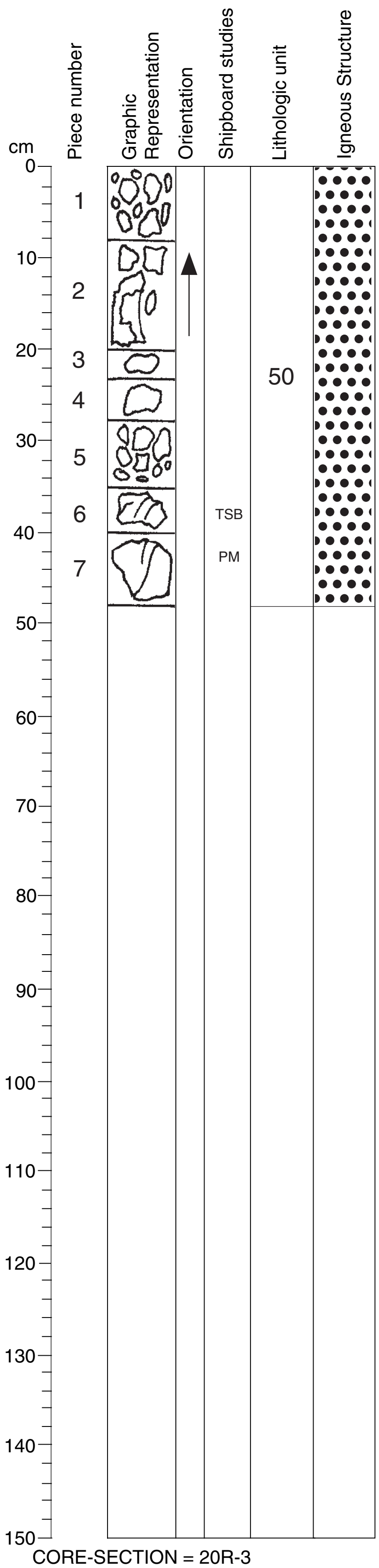
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 26 veins, subhorizontal to vertical, 0.2-5 mm width, filled with saponite +/- carbonate +/-pyrite +/- Fe-oxyhydroxide.

COMMENTS: Interflow material in pieces 3-6.

Core Photo

185-801C-20R-3 **Section top: 663.61 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces:1-5

CONTACTS: Glassy contacts throughout.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	0.5	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1-1 mm in size; filled with secondary minerals.

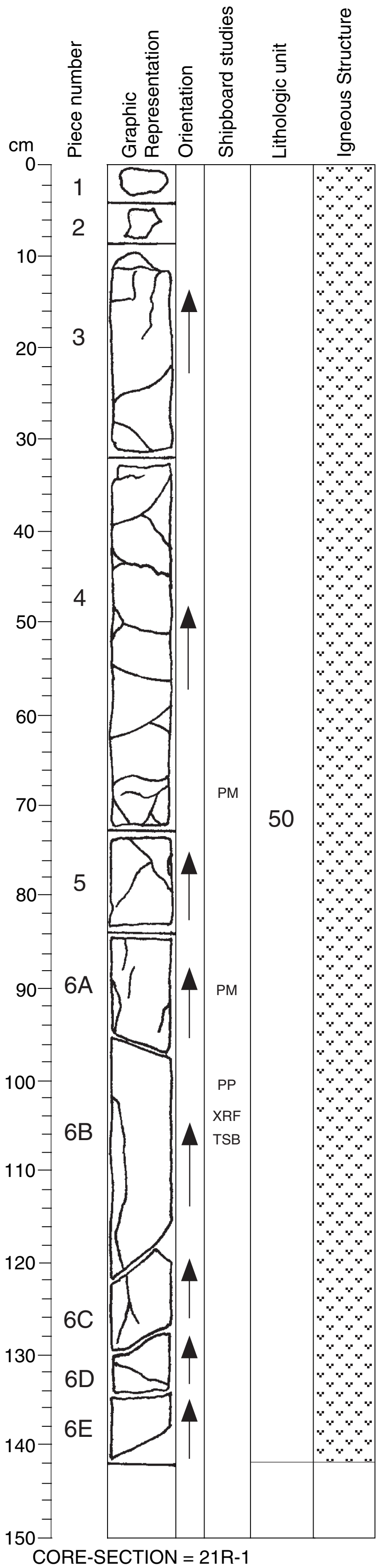
STRUCTURE: Pillows with interflow material.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 6 veins, subhorizontal to vertical orientation, 0.1-1 mm width, filled with saponite +/-carbonate +/- pyrite +/- Fe-oxyhydroxide.

Core Photo

185-801C-21R-1 Section top: 670.0 (mbsf)



UNIT 50: APHYRIC BASALT

Pieces: 1-6

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.5	0.5	0.8	subhedral laths
Pyroxene	<1			0.5	subhedral
Olivine	1	1.0	0.1	0.5	anhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Dark gray.

VESICLES: <1%; 0.1-0.2 mm in size; filled with secondary minerals.

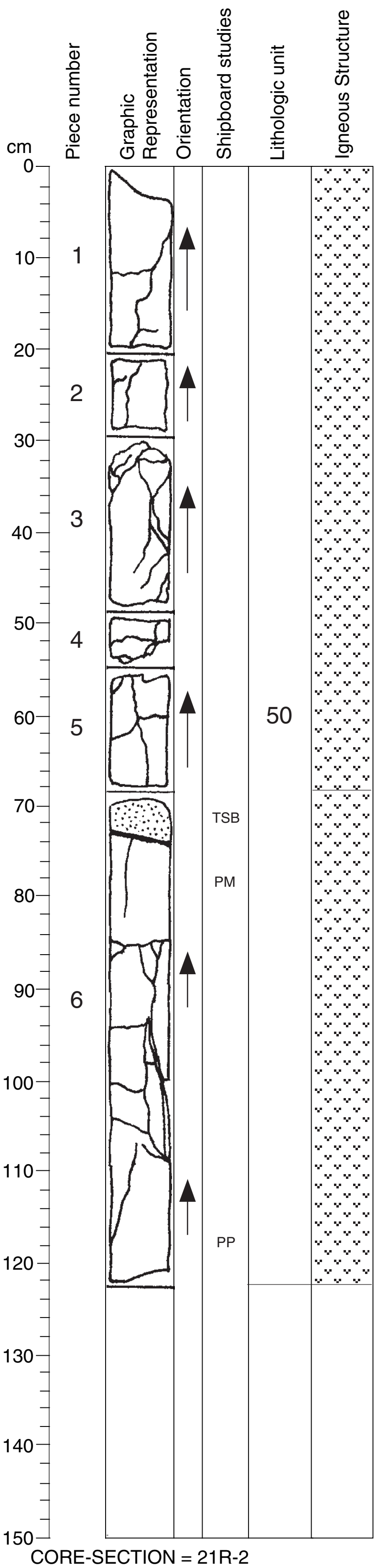
STRUCTURE: Massive flow or thick pillow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 30 veins, randomly oriented, 0.1-1.2 mm width, filled by saponite and/or carbonate. Minor amounts of pyrite observed in half of the veins.

Core Photo

185-801C-21R-2 **Section top: 671.42 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-6

CONTACTS: Chilled margin on top of piece 6.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.5	0.5	1.0	euhedral laths
Olivine	1	1.0	0.1	0.2	euhedral

GROUNDMASS: Hypocrystalline.

COLOR: Dark gray.

VESICLES: <1%; 0.1-0.2 mm in size; filled with secondary minerals.

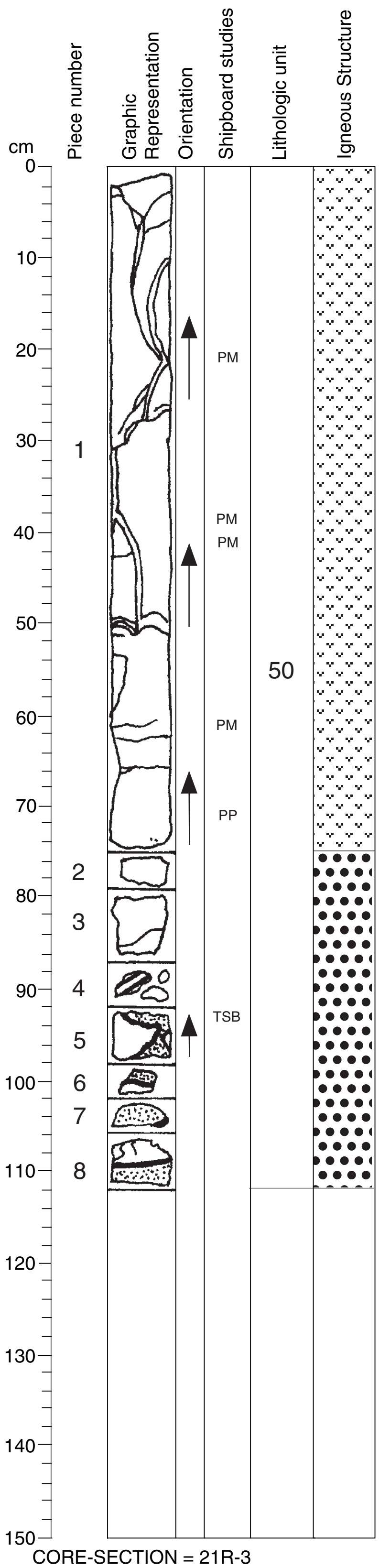
STRUCTURE: Massive flow or thick pillow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins observed, subhorizontal to vertical orientation, 0.1 - 6 mm, filled with carbonate and saponite. 3 veins between 4 and 52 cm contain significant amounts (5-30%) of quartz.

Core Photo

185-801C-21R-3 **Section top: 672.65 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-8

CONTACTS: Glassy contacts in pieces 4-8.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	1.0	subhedral laths
Olivine	1	1.0	0.1	0.3	euhedral

GROUNDMASS: Hypocrystalline.

COLOR: Dark gray.

VESICLES: <1%; 0.1-0.2 mm in size; filled with secondary minerals.

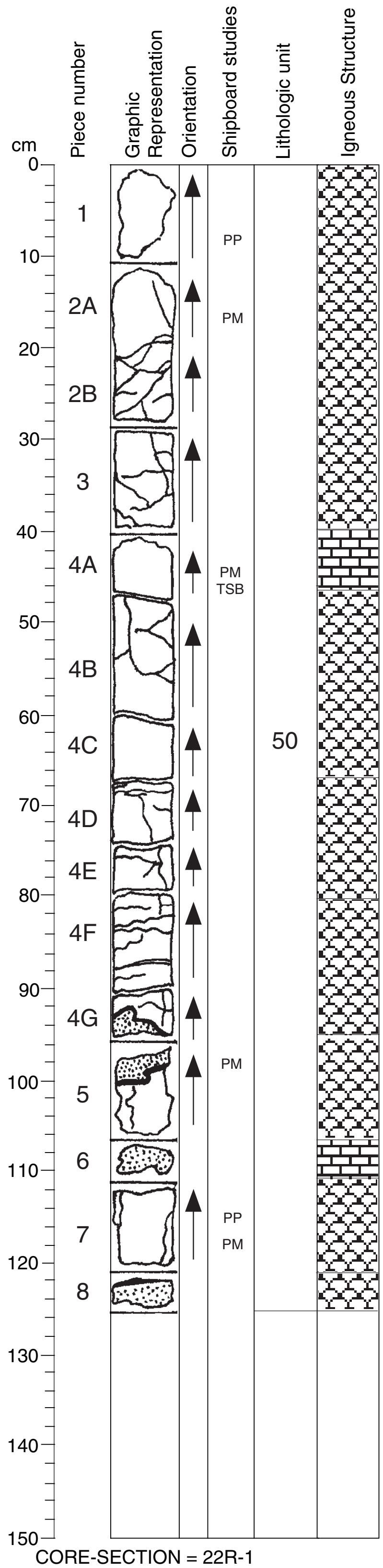
STRUCTURE: Massive flow or thick pillow with interpillow material.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 32 veins, subhorizontal to vertical, 0.1-12 mm width, filled with saponite and carbonate, +/- pyrite +/- fe-oxyhydroxide. Occurence of vein with 5% quartz at 68 cm.

Core Photo

185-801C-22R-1 **Section top:673.6 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-8

CONTACTS: Chilled margin in piece 5.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1			0.5	subhedral
Olivine	1	1.0	0.5	0.5	euhedral-subhedral

GROUNDMASS: Microcrystalline at top; cryptocrystalline at bottom.

COLOR: Hydrothermal deposit (piece 1) is light olive brown, basalt is dark gray at the top to very dark gray at the bottom.

VESICLES:<1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Thin flow with interpillow/interflow material.

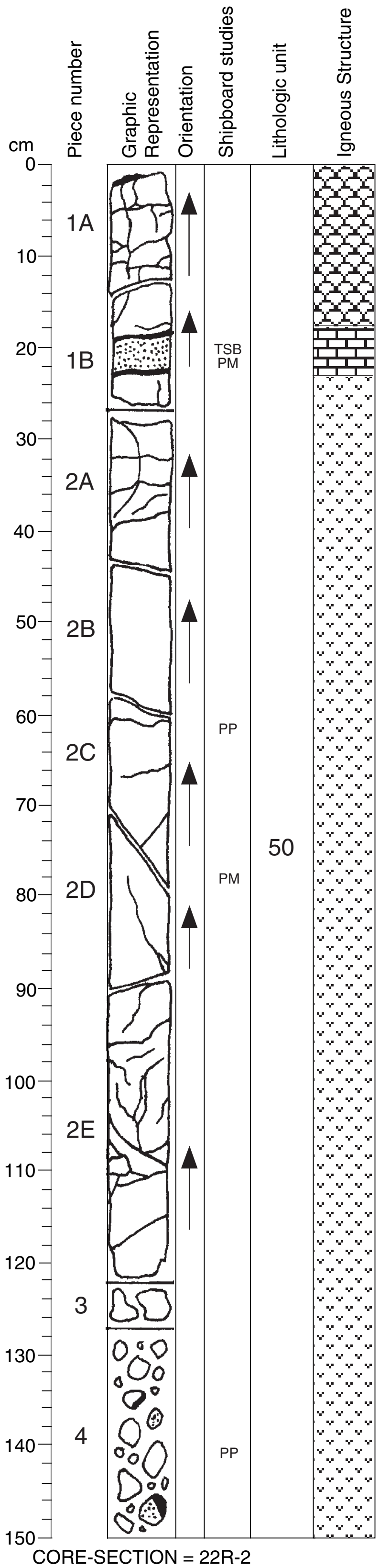
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 32 veins observed, randomly oriented, 0.1- 20 mm, filled with carbonate and/or saponite, +/ pyrite +/- Fe-oxyhydroxide +/- minor quartz.

COMMENTS: Piece 1 belongs to hydrothermal deposit (rubble); Interflow/pillow material in pieces 6 and 8.

Core Photo

185-801C-22R-2 **Section top: 674.84 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-4

CONTACTS: Glassy contact in piece 3.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1			0.5	euhedral laths
Olivine	1-3	1.0	0.2	0.75	euhedral

GROUNDMASS: Microcrystalline (pieces 1-2) to cryptocrystalline at the bottom.

COLOR: Very dark gray to gray at the bottom; pebbles at the bottom are black.

VESICLES: <1; 0.2 mm in size; filled with secondary minerals.

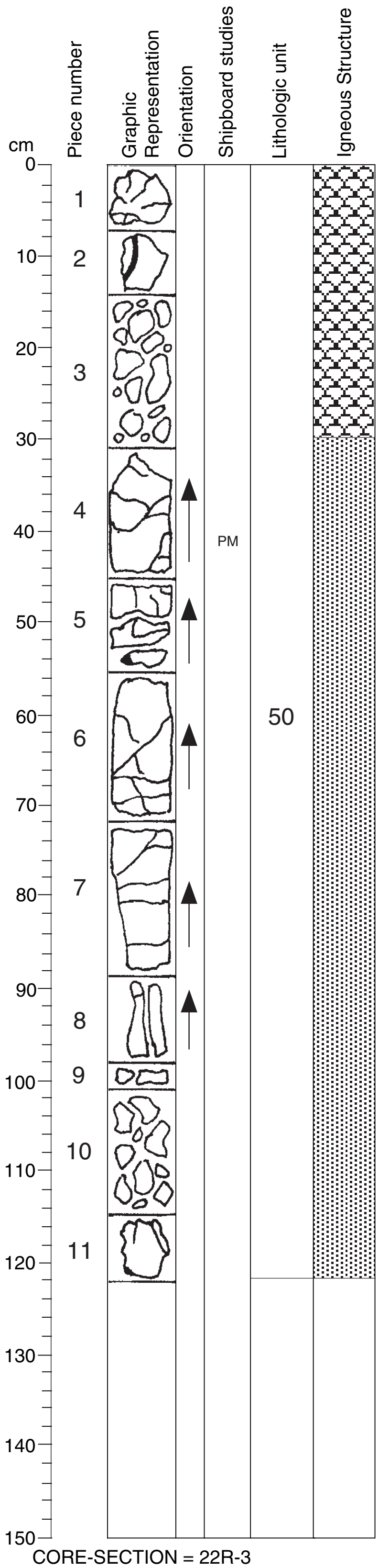
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 32 veins, randomly oriented, 0.1-2 mm width, filled with saponite and/or carbonate, +/-pyrite.

Core Photo

185-801C-22R-3 **Section top: 676.33 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-11

CONTACTS: glassy contact in pieces 2 and 1 of working half

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	1.0	1.0	euhedral lath
Olivine	1	0.5	0.5	0.5	euhedral

GROUNDMASS: Cryptocrystalline (pieces1-3 and 9-10) and microcrystalline

COLOR: Dark gray (piece 1 and 2), dark greenish gray (pebbles in piece 3), gray.

VESICLES: <1%; 0.2 mm in size; filled with secondary minerals.

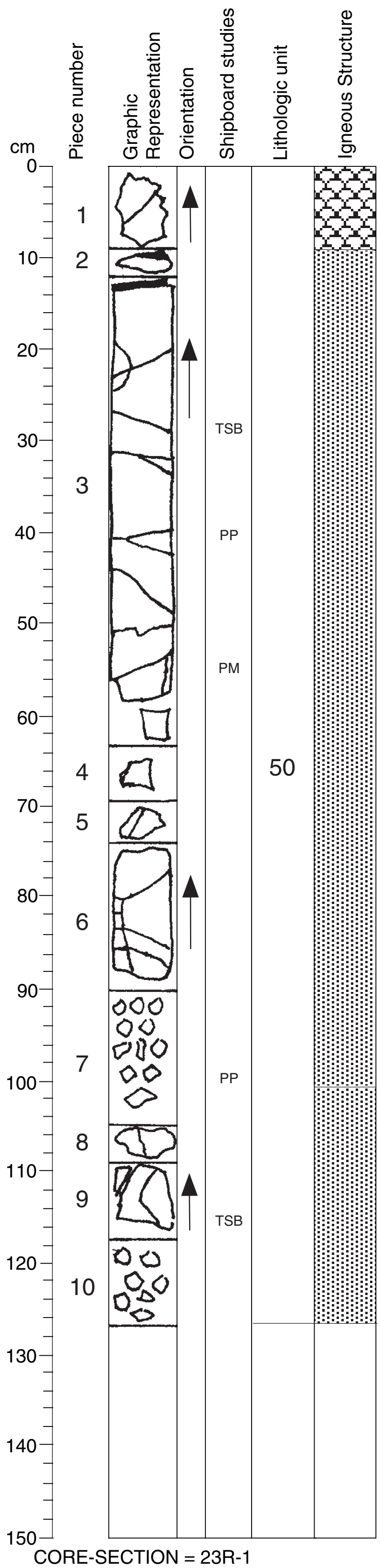
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, randomly oriented, 0.1 - 1 mm width, filled with saponite and/or carbonate, +/-pyrite.

Core Photo

185-801C-23R-1 **Section top:681.9 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-10

CONTACTS: Glassy contacts between piece 2 and 3; and in piece 7.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1			0.5	euhedral lath
Olivine	2	0.2	0.2	0.2	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to very dark gray.

VESICLES: <1%; 0.2 mm in size; filled with secondary minerals.

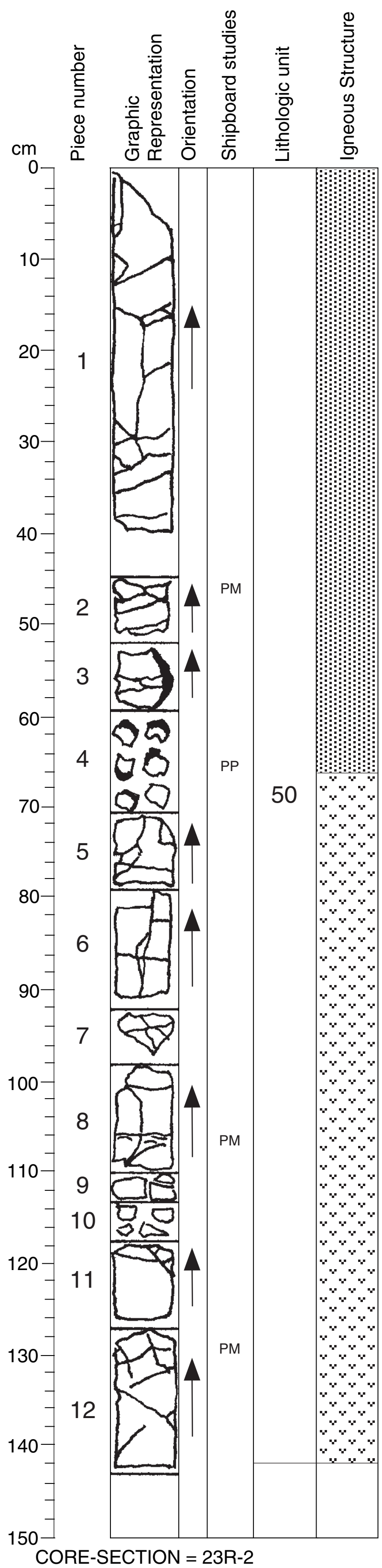
STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 36 veins, subhorizontal to vertical orientation, 0.1-1.5 mm, filled with saponite and/or carbonate, +/ pyrite.

Core Photo

185-801C-23R-2 **Section top: 683.16 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-12B

CONTACTS: Glassy contacts in pieces 3 and 4.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1			0.4	euhedral lath
Olivine	2			0.1	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

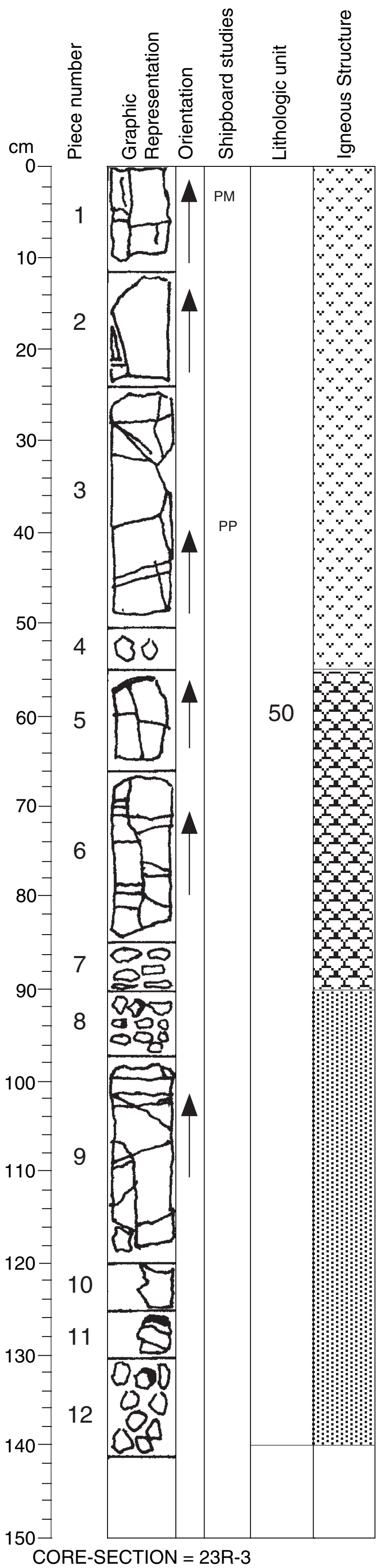
STRUCTURE: Pillows or flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 54 veins, subhorizontal to vertical orientation, 0.1-1.5 mm, filled with saponite and/or carbonate, +/ pyrite.

Core Photo

185-801C-23R-3 **Section top: 684.59 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-12

CONTACTS: Glassy contacts in pieces 7 and 11.

PHENOCRYSTS:

	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Plagioclase	<1			1.0	euhedral lath
Olivine	1-2			0.2	subhedral

GROUNDMASS: Microcrystalline to hypocrystalline

COLOR: Gray to black.

VESICLES: 1%; 0.1 mm in size; filled with secondary minerals.

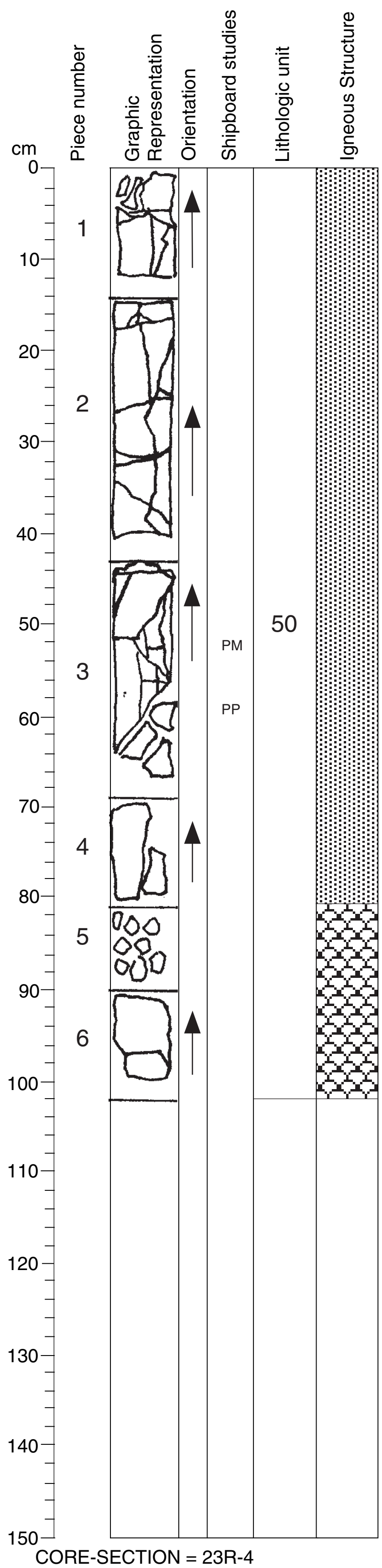
STRUCTURE: Pillows or flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 43 veins, subhorizontal to vertical orientation, 0.1-1.2 mm, filled with saponite and/or carbonate, +/ pyrite. Saponite fills veins above 55 cm, and below carbonates dominate in veins.

Core Photo

185-801C-23R-4 **Section top: 685.99 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-6

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	1.0	1.0	subhedral
Olivine	1	0.5	0.1	0.5	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

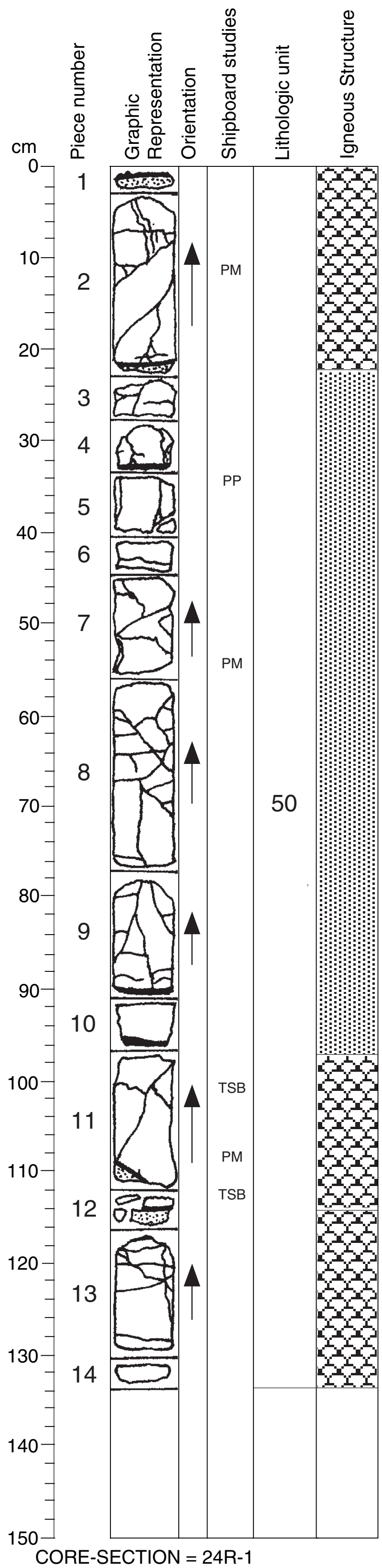
STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 21 veins, subhorizontal to vertical orientation, 0.1-2.5 mm, filled with saponite and/or carbonate.

Core Photo

185-801C-24R-1 **Section top:691.3 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-14

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	1	2.0	1.0	1.5	euhedral lath
Olivine	1			0.5	subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES:<1%; 0.1-0.2 mm in size; filled with secondary minerals.

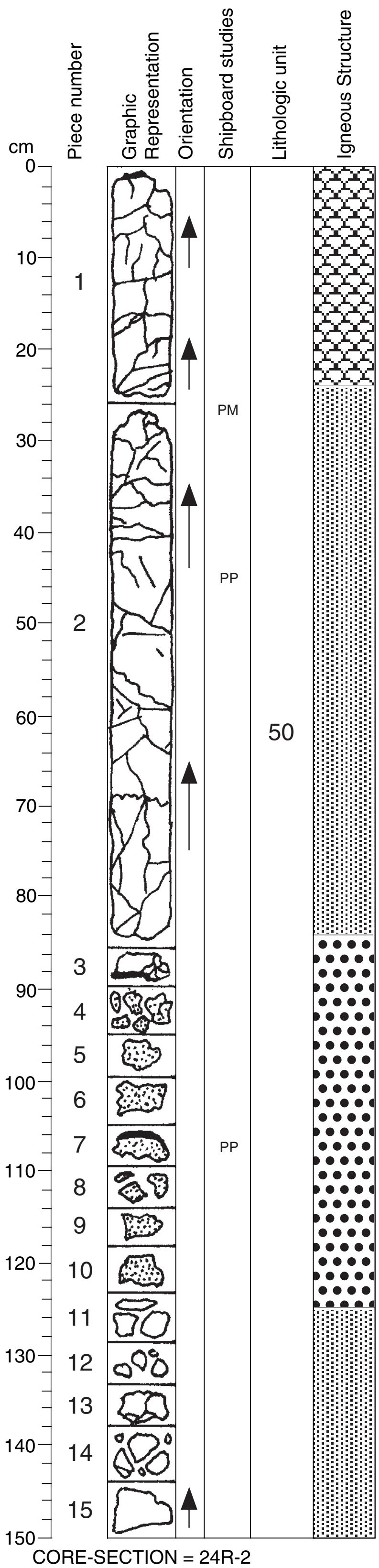
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 51 veins, randomly oriented, 0.1-1.5 mm, filled with saponite and/or carbonate, +/-pyrite. One 4 mm quartz vein cuts across core between 45-48 cm.

Core Photo

185-801C-24R-2 **Section top:692.62 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-16

CONTACTS: Glassy contacts in pieces 3-10.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	1.0	1.0	euhedral-subhedral
Olivine	1	0.5	0.1	0.5	euhedral-subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

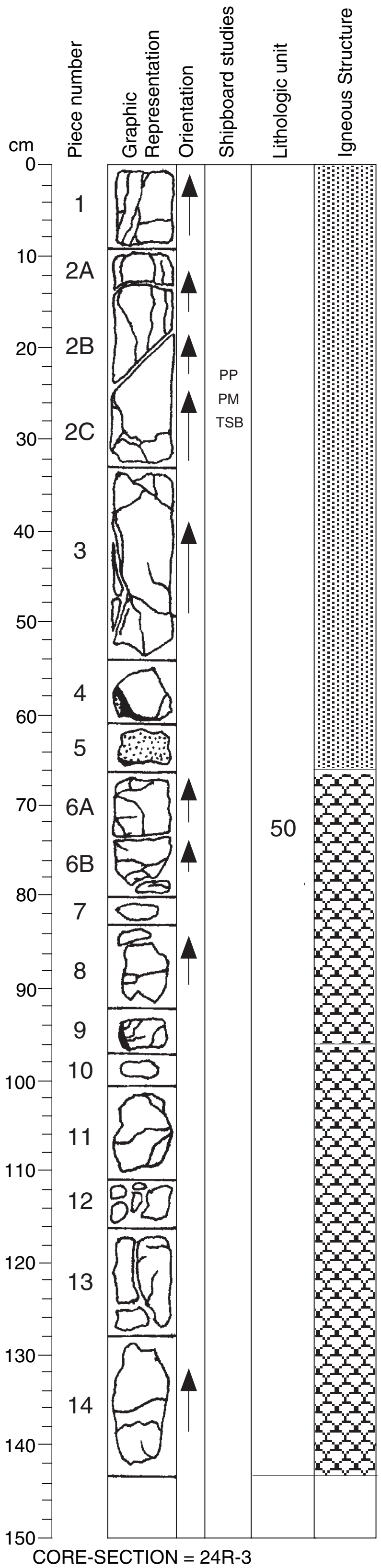
STRUCTURE: Flow and hyaloclastite (piece 3-10).

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 28 veins, 0.1-2.5 mm, subhorizontal to vertical orientation, filled with saponite and/or carbonate, +/- pyrite.

Core Photo

185-801C-24R-3 **Section top:694.13 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-14

CONTACTS: Irregular contacts in pieces 4 and 5

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2.0	1.0	1.5	euhedral lath
Olivine	1			0.5	subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

STRUCTURE: Pillows or flows.

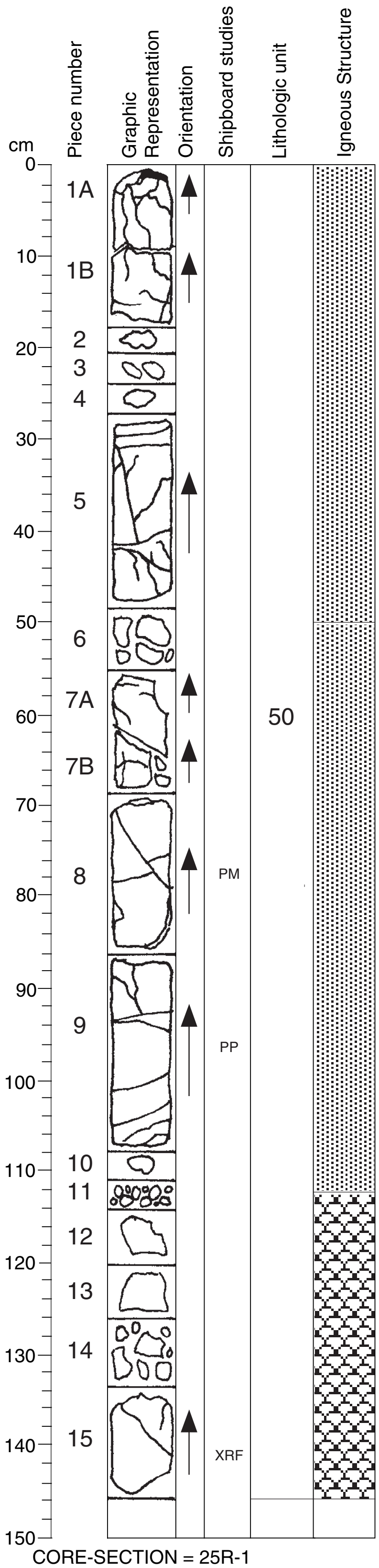
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 34 veins, 0.1-1.2 mm, subhorizontal to vertical orientation, filled with saponite and/or carbonate, +/- pyrite.

COMMENTS: Interpillow/flow material in pieces 4 and 5.

Core Photo

185-801C-25R-1 **Section top:700.7 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-15

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	3.0	1.0	1.5	euhedral lath
Olivine	1-2	3.0	0.5	0.75	euhedral-subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1 mm in size; filled with secondary minerals.

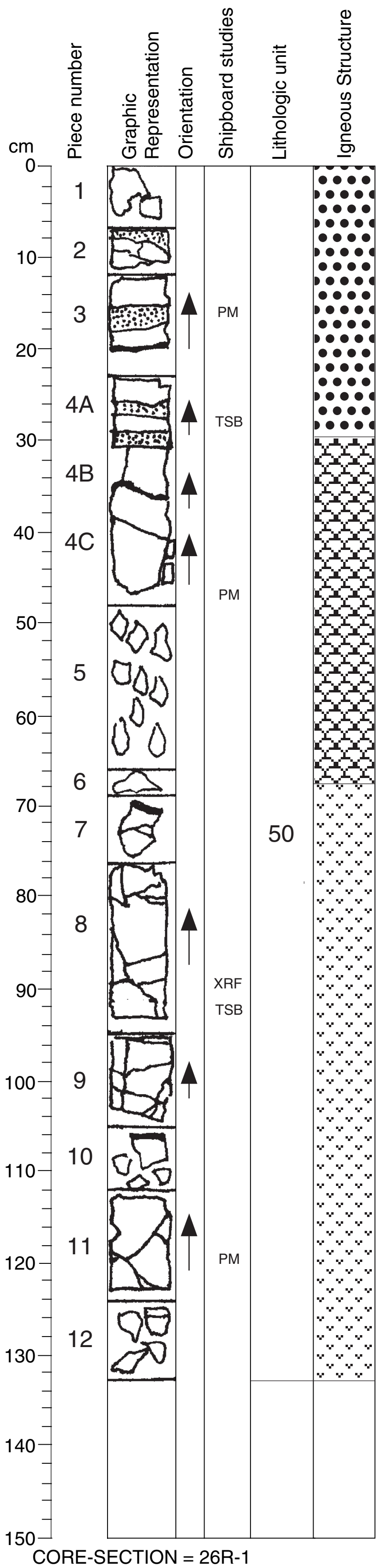
STRUCTURE: Massive flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 36 veins, subhorizontal to vertical orientation, 0.1-1.2 mm width, filled with saponite and/or carbonate, +/- pyrite.

Core Photo

185-801C-26R-1 **Section top: 710.2 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-12

CONTACTS: Chilled margins in pieces 1-4.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	1	1.0	0.5	1.0	euhedral laths
Olivine	1-3	0.8	0.2	0.2	euhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray basalt; dark greenish gray interflow material.

VESICLES: 0-2%; 0.1 mm in size; filled with saponite.

STRUCTURE: Flows.

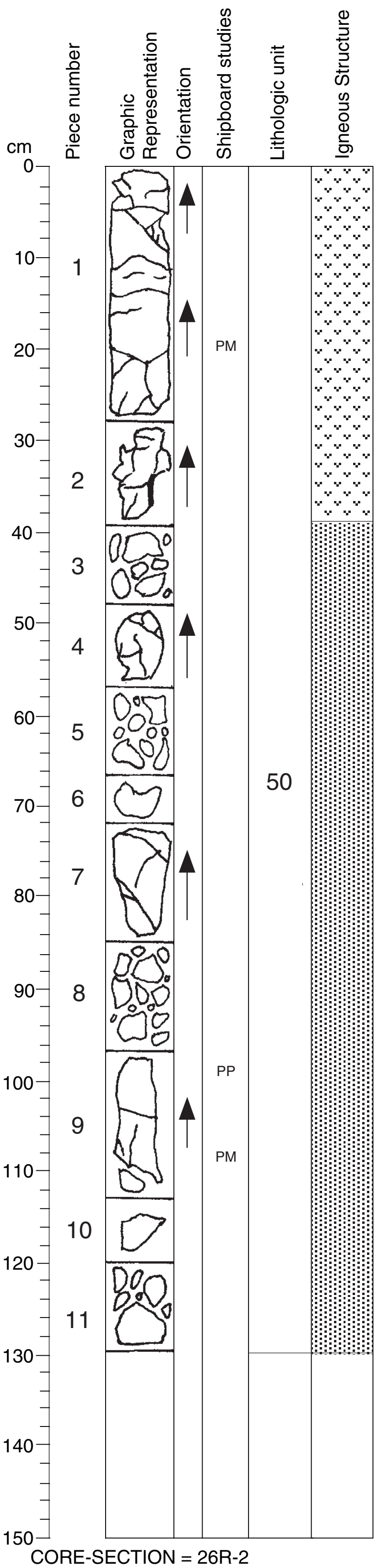
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 43 veins, randomly oriented, 0.1-3 mm width, saponite and/or carbonate, +/- pyrite.

COMMENTS: Green interpillow material in pieces 1-4.

Core Photo

185-801C-26R-2 **Section top: 711.53 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-11

CONTACTS: Glassy contact in piece 2.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	1	1.0	1.0	1.0	euhedral laths
Olivine	1	0.2	0.2	0.2	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: 2%; 0.1-0.3 mm in size; filled with saponite.

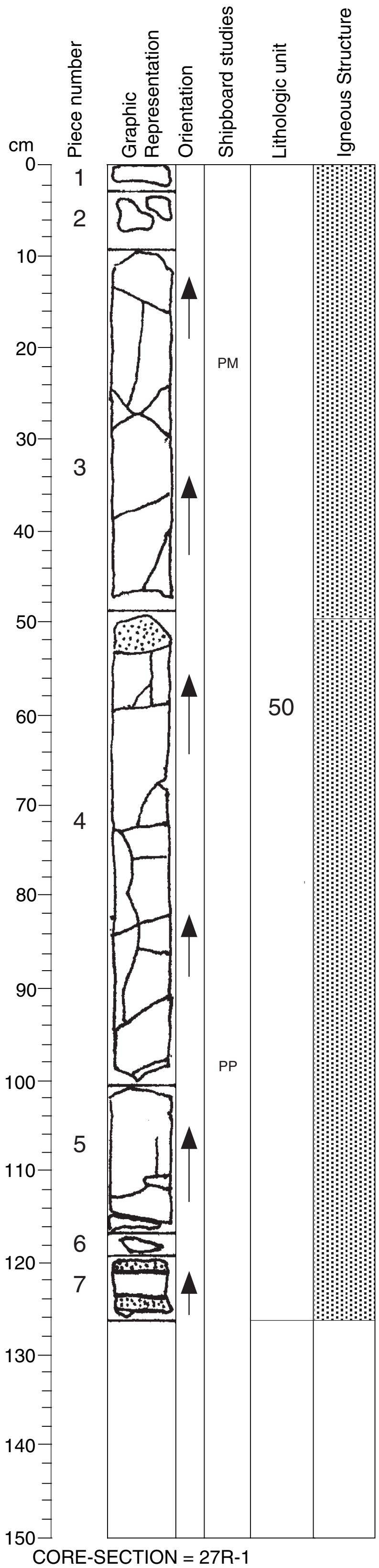
STRUCTURE: Flows or pillows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 33 veins, randomly oriented, 0.1-1.2 mm width, saponite and/or carbonate, +/- pyrite.

Core Photo

185-801C-27R-1 **Section top:719.7 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-7

CONTACTS: Chilled margins in piece 7, contacts with interflow material in piece 4.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	2.6		2.6	euhedral laths
Olivine	0-2	1.0	0.1	0.2	euhedral-subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: 0-2%, 0.1-0.4 mm in size; filled with calcite and saponite.

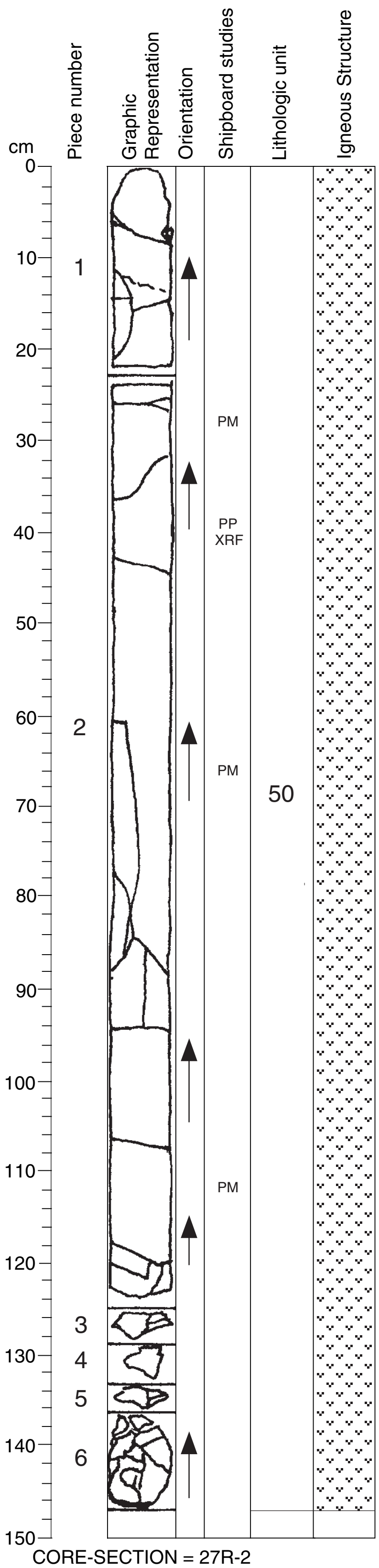
STRUCTURE: Massive flow; thin flow at the bottom.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 23 veins, randomly oriented, 0.1-8 mm, filled with saponite and/or carbonate, +/ -pyrite. 2 other veins observed (4 and 30 mm thick), in pieces 4 and 7 (respectively), as late stage fill within interpillow positions filled with carbonate + quartz + saponite.

Core Photo

185-801C-27R-2 **Section top: 720.97 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-6

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Hypocrystalline to hypohyaline.

COLOR: Gray to dark gray.

VESICLES: None observed.

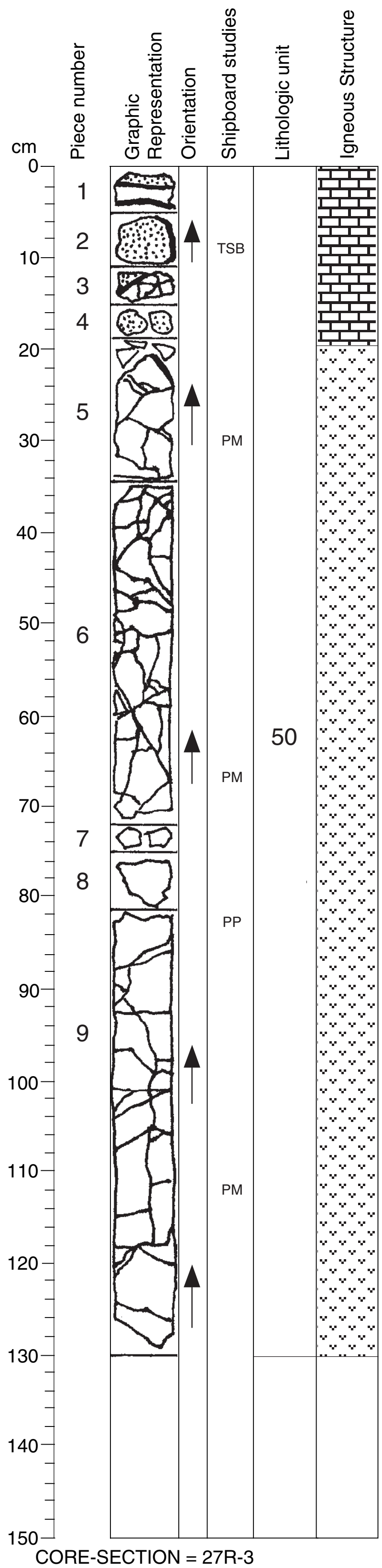
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 31 veins observed, randomly oriented, 0.1-1.5 mm width, filled with saponite and/or carbonate, +/- pyrite.

Core Photo

185-801C-27R-3 **Section top: 722.46 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-9E

CONTACTS: Brecciated pillow rims; chilled and glassy margins in pieces 1-4.

PHENOCRYSTS: None observed.

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: None observed.

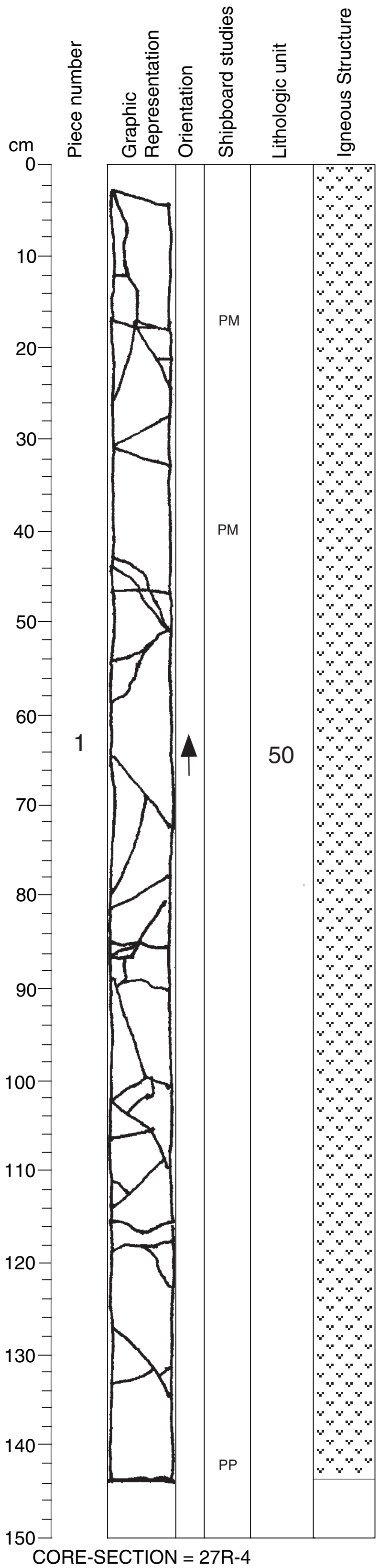
STRUCTURE: Flow and pillow margins.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 57 veins, subhorizontal to vertical orientation, 0.1-2.5 mm width, filled with saponite and/or carbonate, +/- pyrite. Three quartz-rich veins occur in piece 6. Two veins, one in piece 2 and one in piece 3; filled by carbonate with saponite, 10 and 40 mm widths.

Core Photo

185-801C-27R-4 **Section top: 723.76 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1A-1E

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Hypocrystalline.

COLOR: Gray.

VESICLES: None observed.

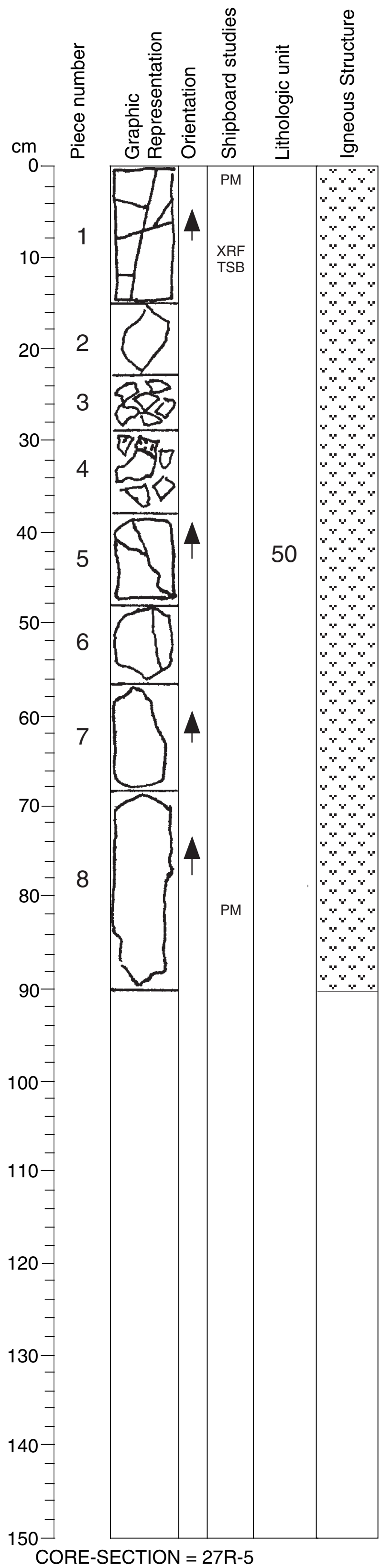
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 33 veins, 0.1-2 mm width, filled with carbonate and/or saponite +/- pyrite.

Core Photo

185-801C-27R-5 **Section top: 725.18 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-8

CONTACTS: Contact between basalt and interflow material.

PHENOCRYSTS: None observed.

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark greenish gray.

VESICLES: None observed.

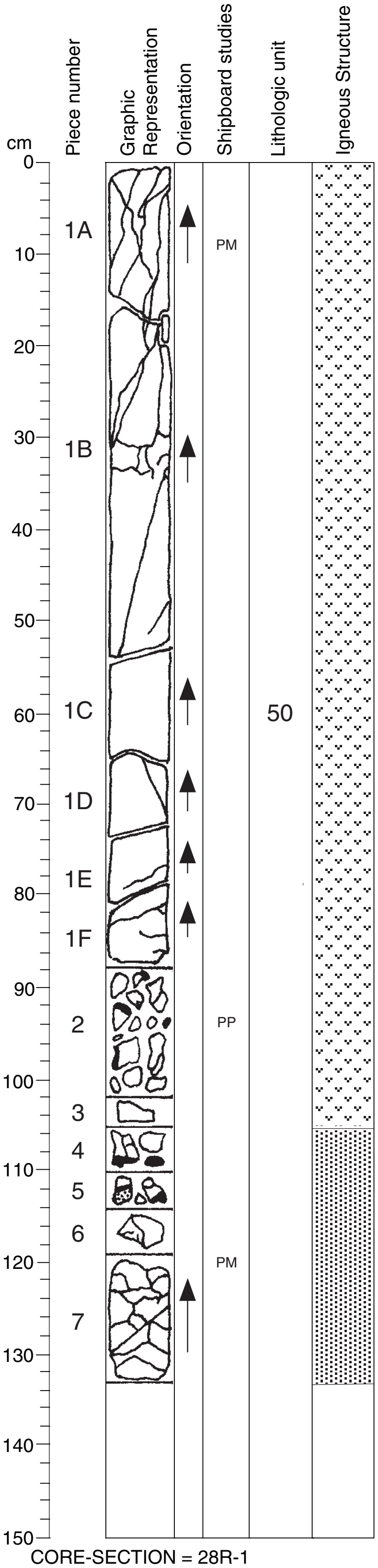
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 11 veins, 0.1-0.6 mm, mostly subhorizontal, filled by saponite and/or carbonate, +/- pyrite.

Core Photo

185-801C-28R-1 **Section top:728.7 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-7

CONTACTS: Glassy contacts in pieces 4 and 5.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	0-<1	3.0	3.0	3.0	euhedral lath

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to very dark gray.

VESICLES: None observed.

STRUCTURE: Flows with interflow material.

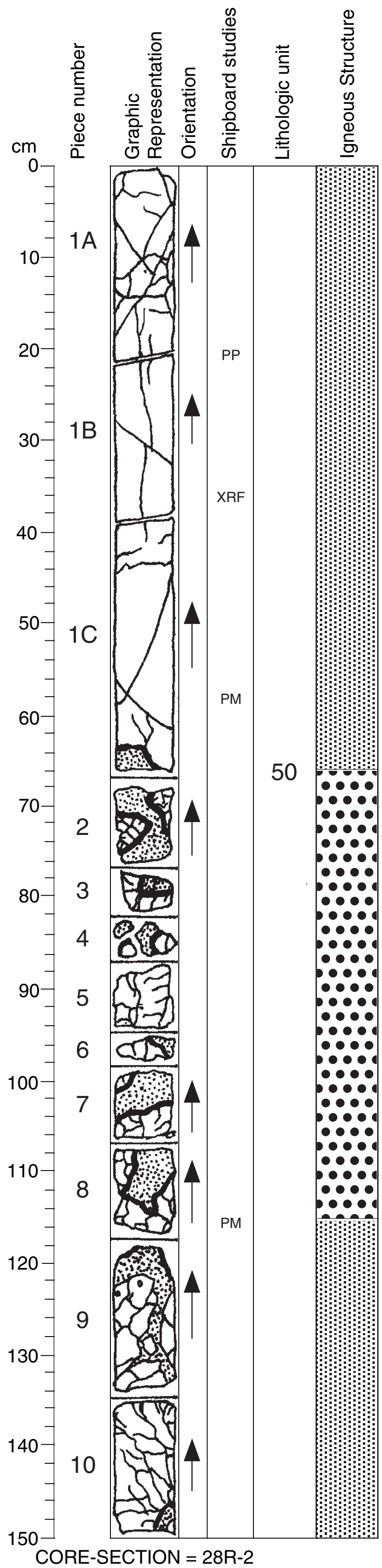
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 31 veins, subhorizonatal to vertical orientation, 0.1-4 mm width, filled with carbonate +/-saponite +/- pyrite.

COMMENTS: Only 1 phenocryst observed.

Core Photo

185-801C-28R-2 **Section top: 730.03 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-10

CONTACTS: Brecciated contacts.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	3.0	0.5	0.5	euhedral laths

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <<1; 0.1-0.3 mm in size; filled with calcite and saponite.

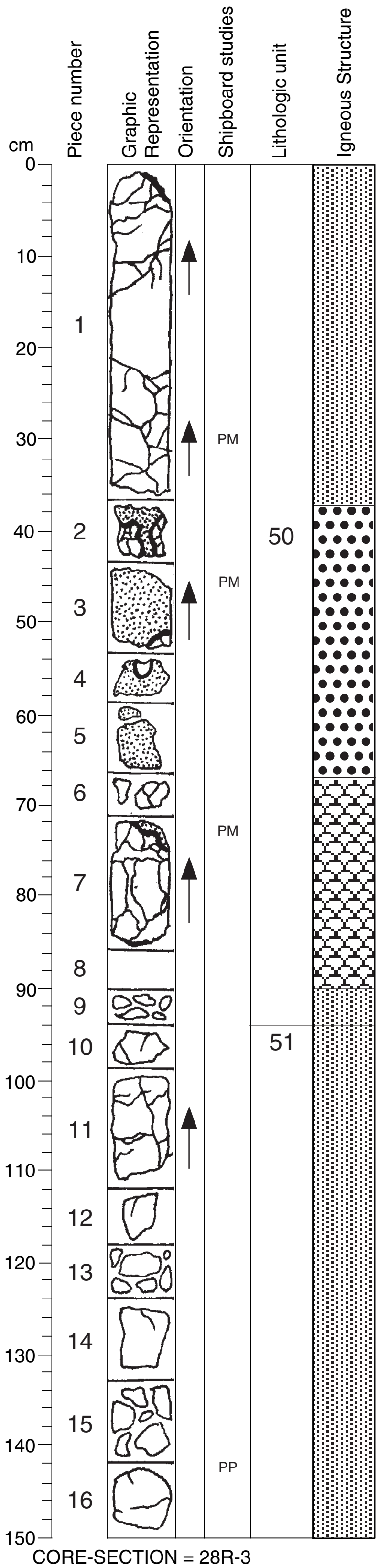
STRUCTURE: Flow (piece1), breccia (pieces 2-10).

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 84 veins, subhorizontal to vertical orientation, 0.1-4 mm, filled by carbonate and/or saponite, +/- pyrite.

Core Photo

185-801C-28R-3 **Section top: 731.52 (mbsf)**



UNIT 50: APHYRIC BASALT

Pieces: 1-9

CONTACTS: Brecciated, glassy contacts in pieces 2-5.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Plagioclase	1	1.0	1.0	1.0	euhedral laths

GROUNDMASS: Hypocrystalline.

COLOR: Gray to black.

VESICLES: None.

STRUCTURE: Sheet flows, breccia.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 18 veins, subhorizontal to vertical orientation, 0.1-2 mm width, filled with saponite and/ or carbonate.

COMMENTS: Fresh glass in pieces 2-5 and 9.

UNIT 51: APHYRIC BASALT

Pieces: 10-16

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: 1-2%; 0.1 mm in size; filled with saponite.

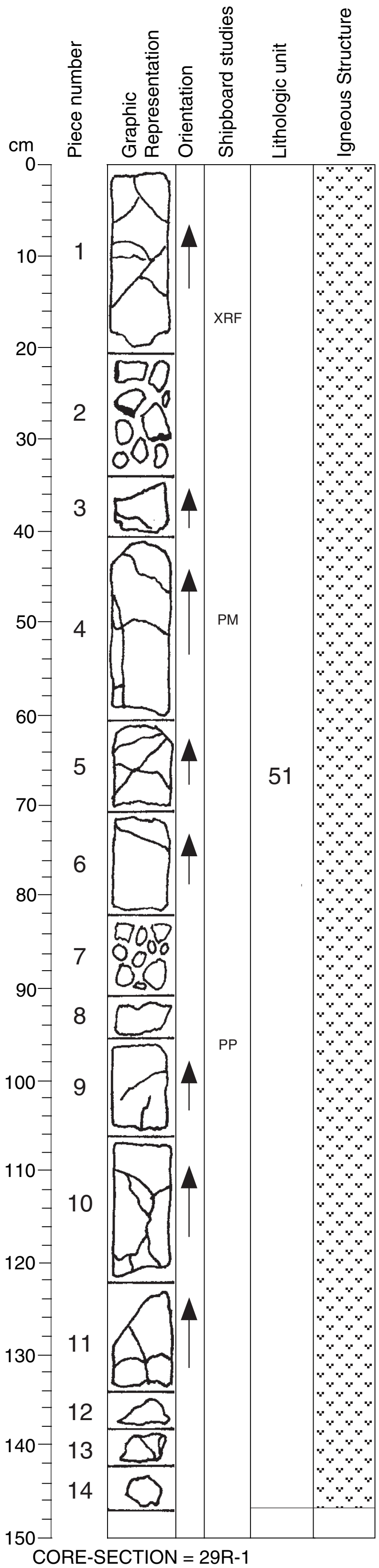
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 8 veins, subhorizontal to vertical orientation, 0.1-0.3 mm width, filled with saponite or carbonate, +/- pyrite.

Core Photo

185-801C-29R-1 **Section top: 737.9 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1-14

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	1	1.5	0.6	1.0	euhedral
Olivine	1	0.5	0.5	0.5	subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: 1-2%; 0.1- 0.2 mm in size; filled with calcite and smecite.

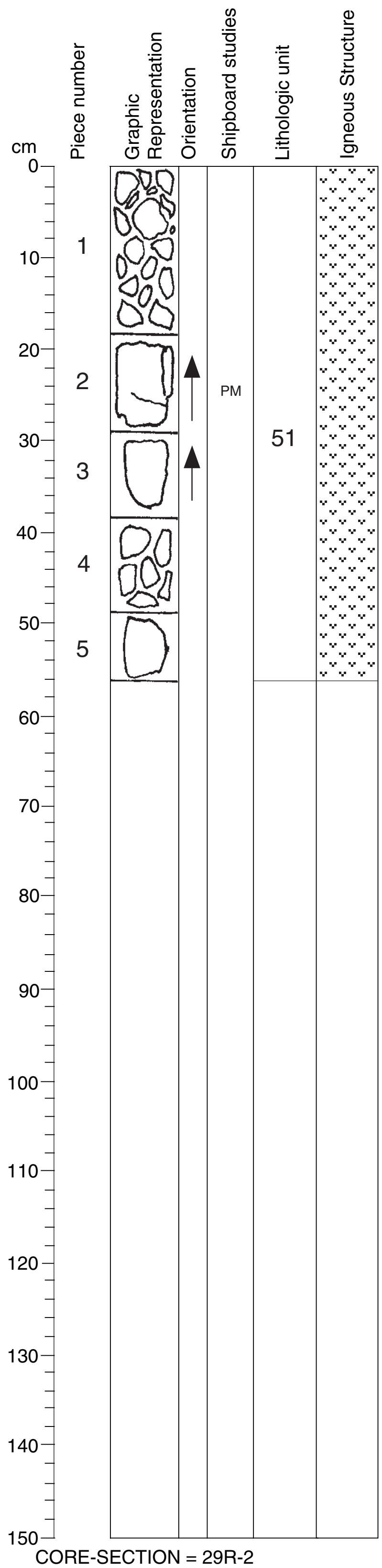
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, randomly oriented, 0.1-4 mm width, filled with saponite +/- carbonate +/-pyrite.

Core Photo

185-801C-29R-2 **Section top: 739.28 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1-5

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Hypocrystalline.

COLOR: Gray to dark gray and dark greenish gray.

VESICLES: 1-2%; 0.1- 0.2 mm in size; filled with calcite and smecite.

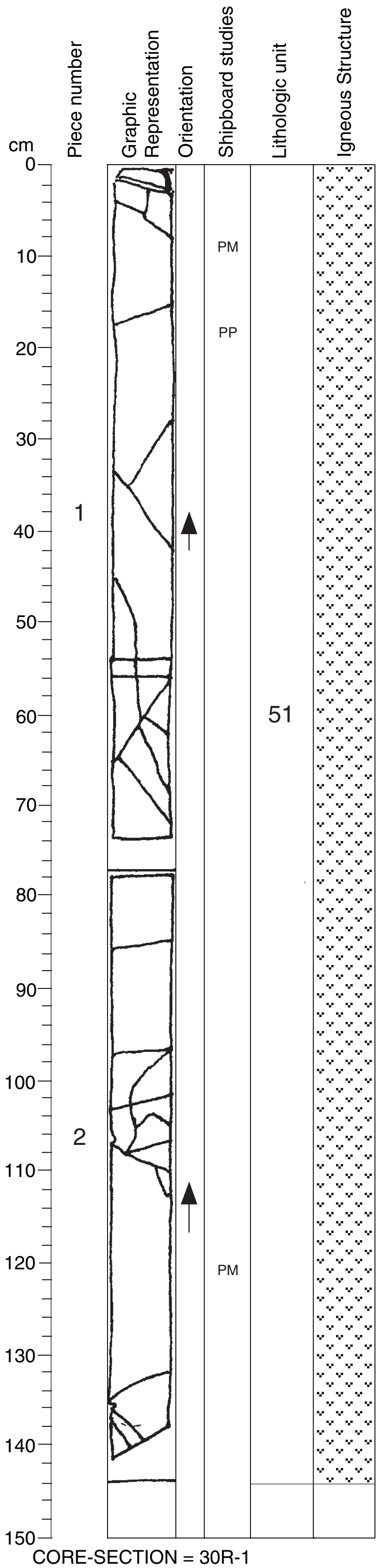
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 6 veins, subhorizontal and vertical orientations, 0.1-3 mm width, filled with saponite +/-carbonate +/- pyrite.

Core Photo

185-801C-30R-1 **Section top: 747.3 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-2F

CONTACTS: None observed.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Olivine	<1	0.1	0.1	0.1	subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: 2%; 0.1-1 mm in size; filled with secondary minerals.

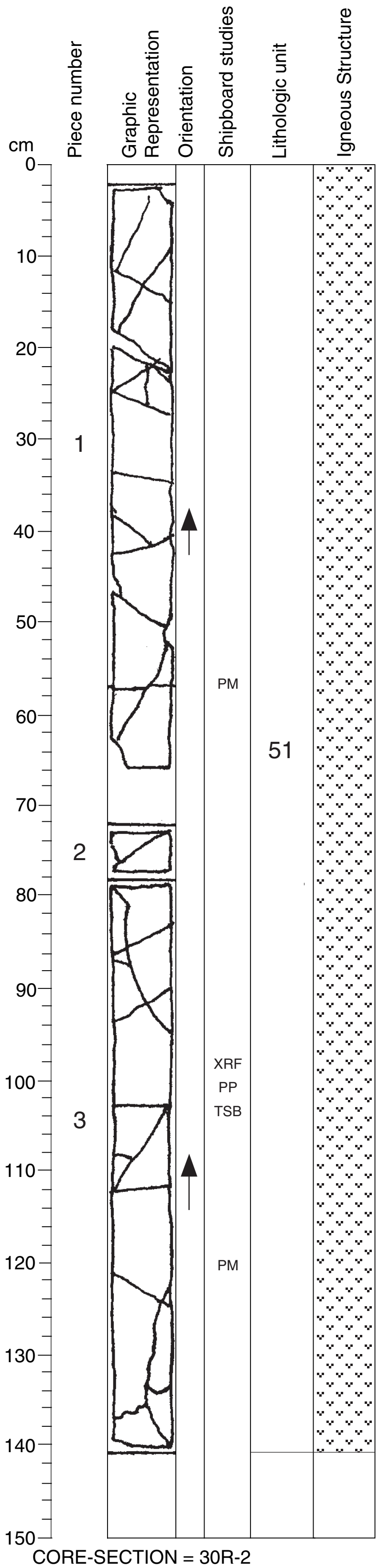
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 25 veins, subhorizontal to vertical, 0.1-1.2 mm width, filled with saponite +/- carbonate +/- pyrite.

Core Photo

185-801C-30R-2 **Section top: 748.73 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-3F

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.0	0.2	0.6	subhedral

GROUNDMASS: Microcrstalline to hypocrystalline.

COLOR: Gray.

VESICLES: 1-2%; 0.1-0.2 mm in size; filled with calcite and saponite.

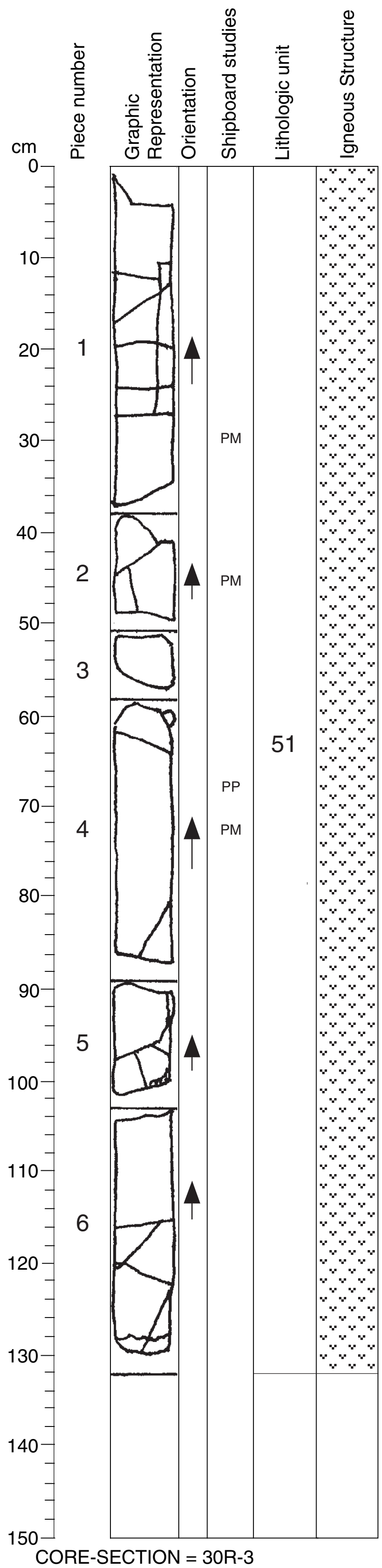
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, subhorizontal to vertical, 0.1-4 mm width, filled with saponite +/- carbonate +/- pyrite.

Core Photo

185-801C-30R-3 **Section top: 750.15 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1-6C

CONTACTS: Unclear contact in piece 5b.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Olivine	<1	1.0	0.3	0.5	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: 1%; 0.1 mm in size; filled with calcite and saponite.

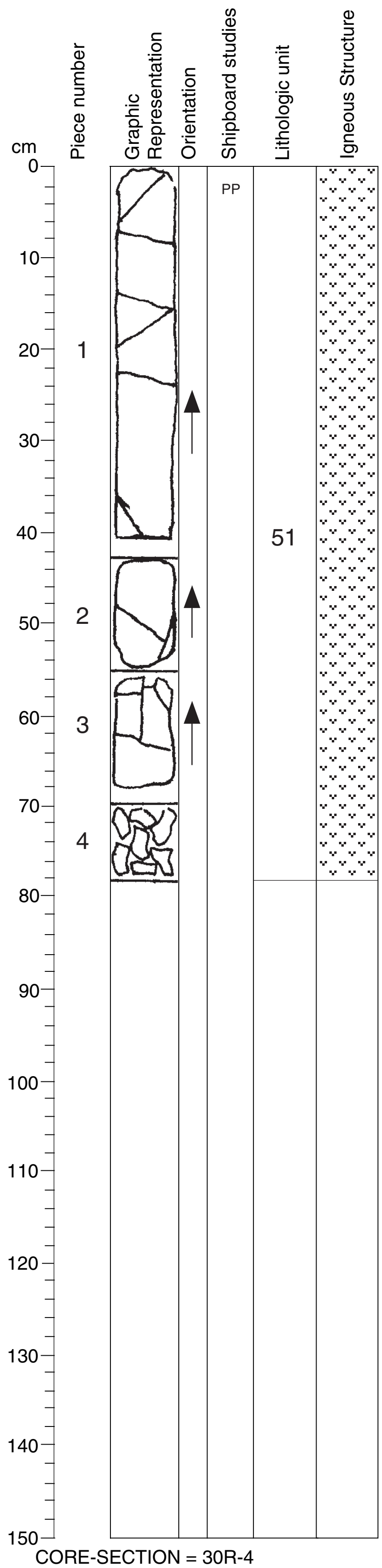
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 24 veins, subhorizontal to vertical, 0.1-4 mm width, filled with saponite +/- carbonate +/- pyrite.

Core Photo

185-801C-30R-4 **Section top: 751.48 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-4

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.0	0.3	0.5	euhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray.

VESICLES: None observed.

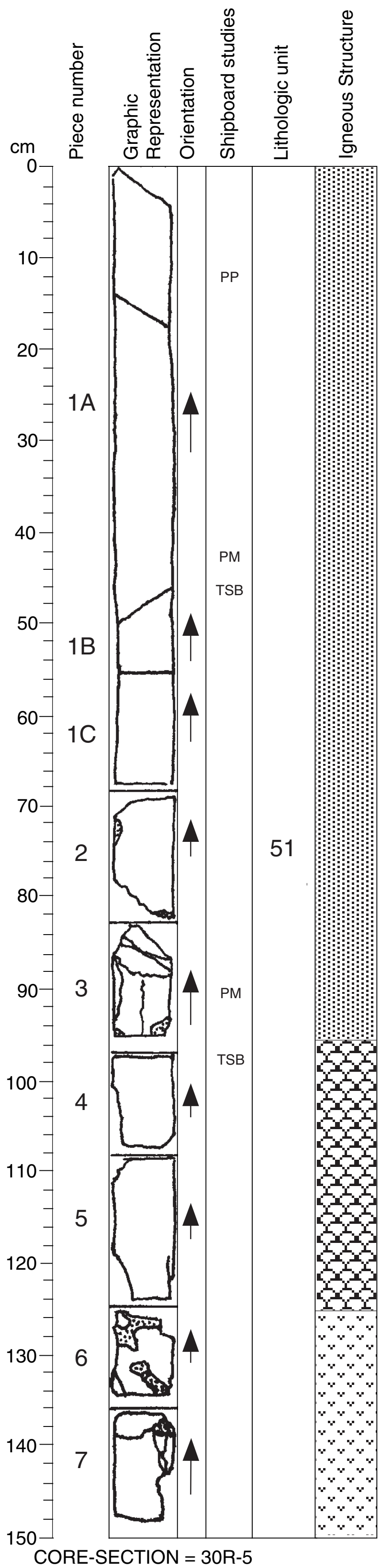
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 11 veins, subhorizontal to vertical, 0.1-0.8 mm width, filled with saponite +/- carbonate +/- pyrite

Core Photo

185-801C-30R-5 **Section top: 752.28 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-4

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.5	0.5	0.7	euhedral-subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray.

VESICLES: None observed.

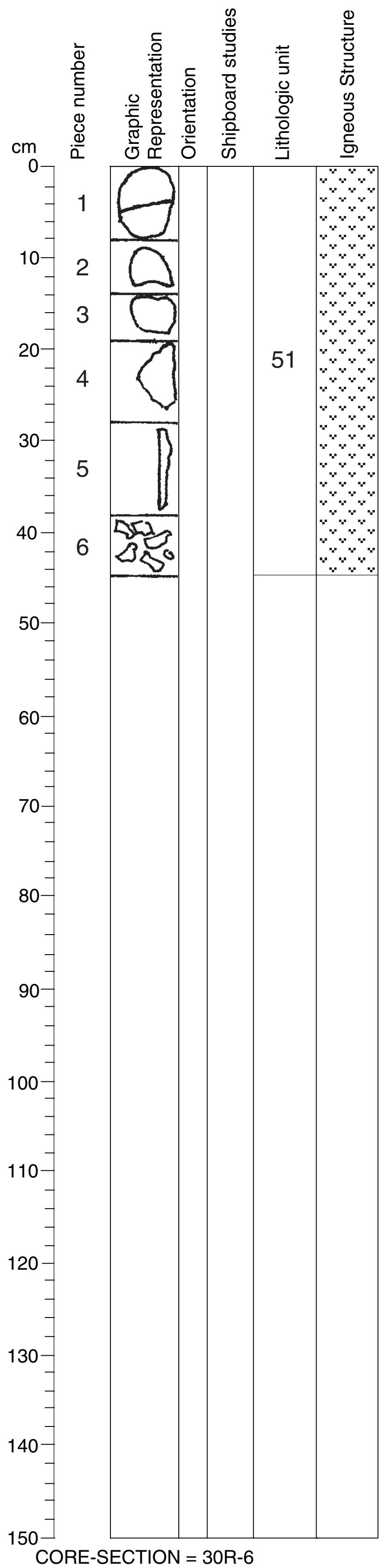
STRUCTURE: Flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 23 veins, subhorizontal to vertical, 0.1-0.8 mm width, filled with saponite +/- carbonate +/- pyrite or celadonite +/- Fe-oxyhydroxide.

Core Photo

185-801C-30R-6 **Section top: 753.78 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-4

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<<1	0.3	0.1	0.2	subhedral

GROUNDMASS: Hypocrystalline.

COLOR: Gray.

VESICLES: None observed.

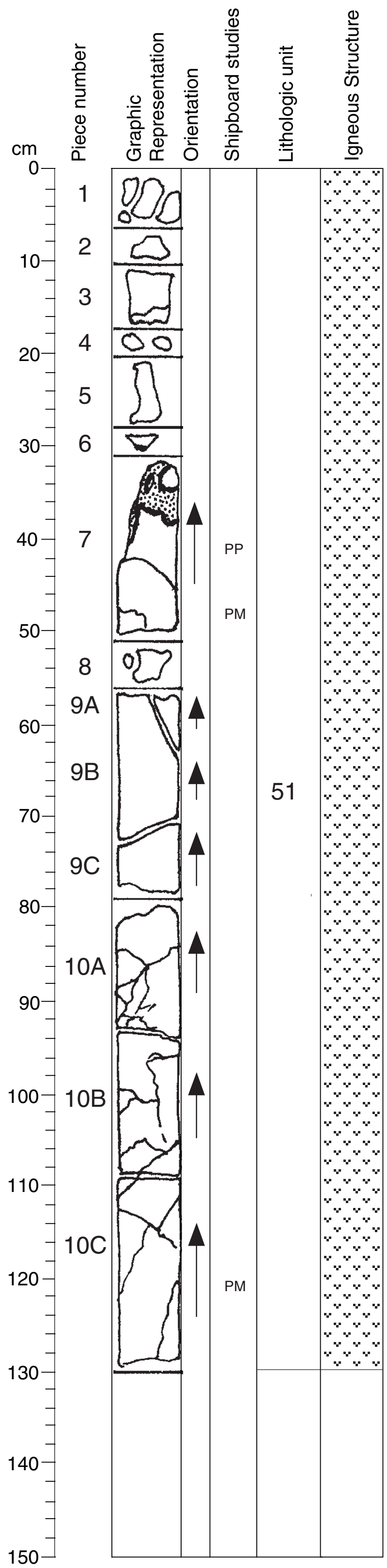
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 11 veins, subhorizontal to vertical, 0.1-3 mm width, filled with saponite and/or carbonate, +/- Fe-oxyhydroxide.

Core Photo

185-801C-31R-1 **Section top: 756.6 (mbsf)**



CORE-SECTION = 31R-1

UNIT 51: APHYRIC BASALT

Pieces: 1-10C

CONTACTS: Interflow- contact in piece 7.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.2	0.5	0.7	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: None observed.

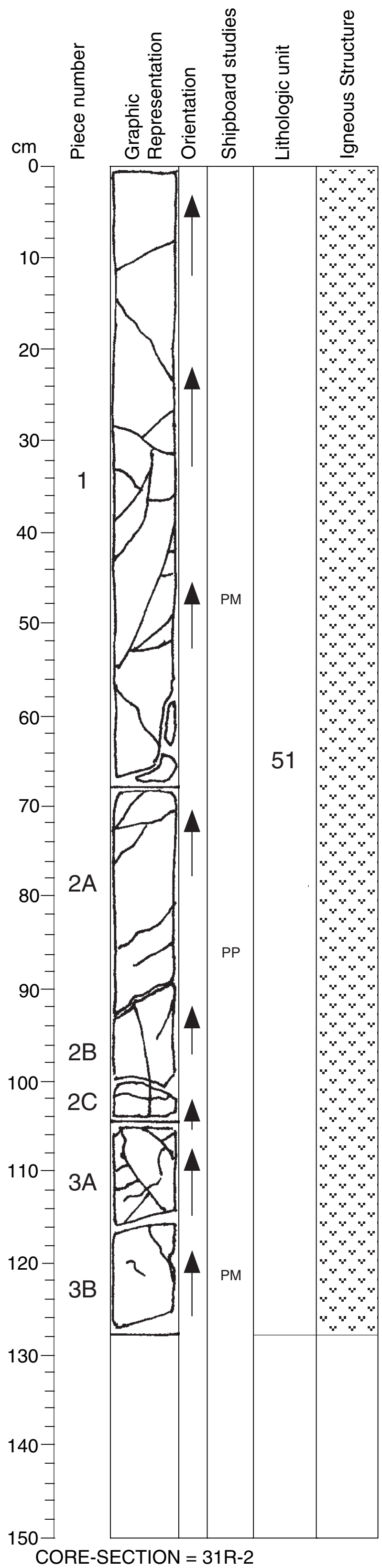
STRUCTURE: Thick massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 27 veins, randomly oriented, 0.1-20 mm, saponite +/- carbonate +/ celadonite +/ - pyrite +/- Fe-oxyhydroxide. Slickensides associated with 2 veins in the interval of 30-42 cm. 3 veins associated with 1 mm brown halos in the interval of 85-93 cm.

Core Photo

185-801C-31R-2 **Section top: 757.9 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1-3B

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<<1	0.5	0.5	0.5	subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: <1%; 0.5 mm in size; filled with calcite and saponite.

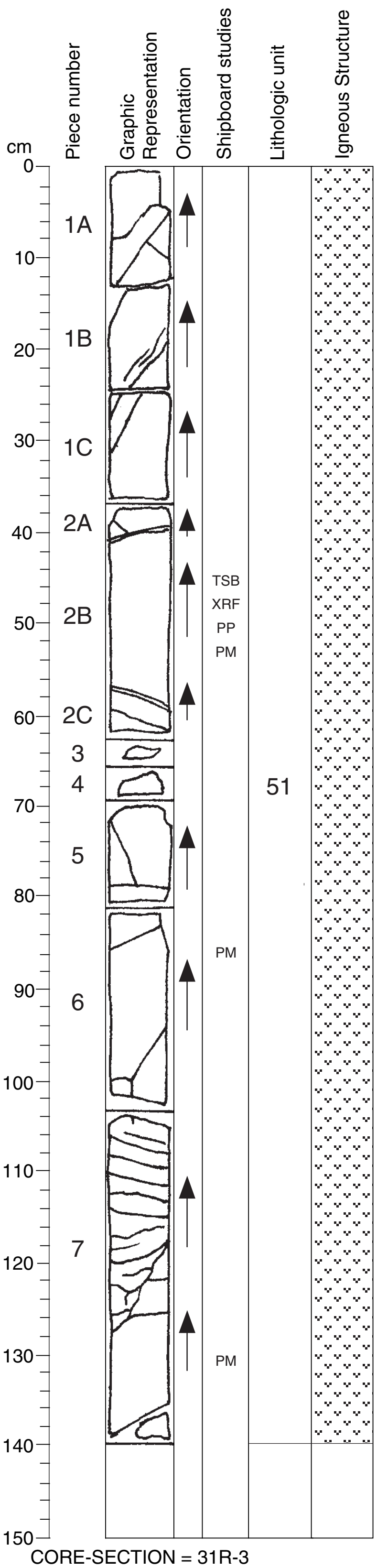
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, randomly oriented, 0.1-2.1 mm width, saponite and carbonate +/- pyrite.

Core Photo

185-801C-31R-3 **Section top: 759.18 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-7

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.0	0.5	0.5	euhedral-subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: <1%; 0.2-0.5 mm in size; filled with saponite.

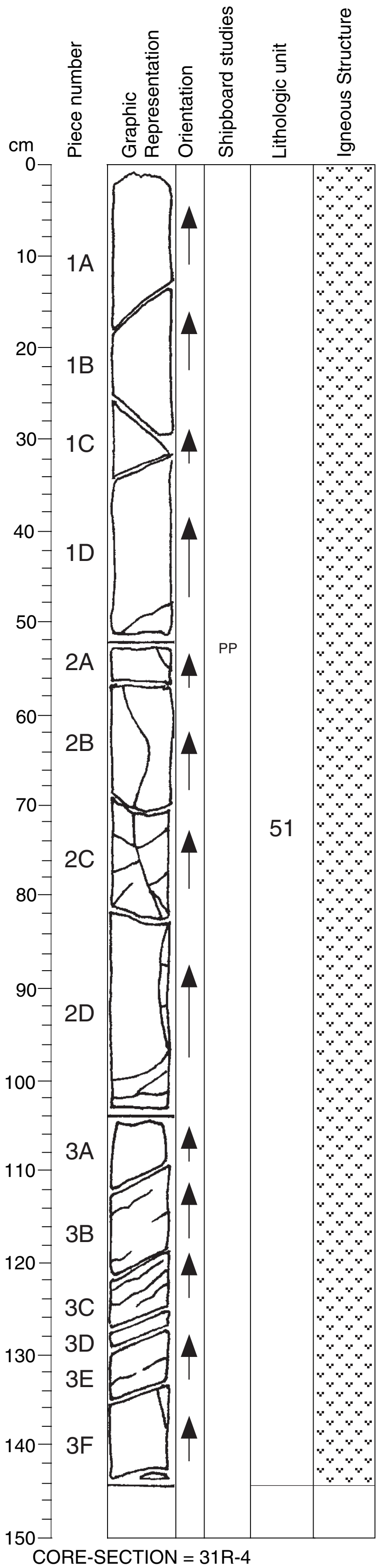
STRUCTURE: Thick massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 28 veins, randomly oriented, 0.1-0.8 mm, filled by saponite +/- carbonate +/- pyrite.

Core Photo

185-801C-31R-4 **Section top: 760.58 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-3F

CONTACTS: None observed.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Plagioclase	<1	1.0	0.5	0.5	euhedral laths
Olivine	1	0.5	0.2	0.3	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: <1%; 0.5 mm in size; filled with saponite.

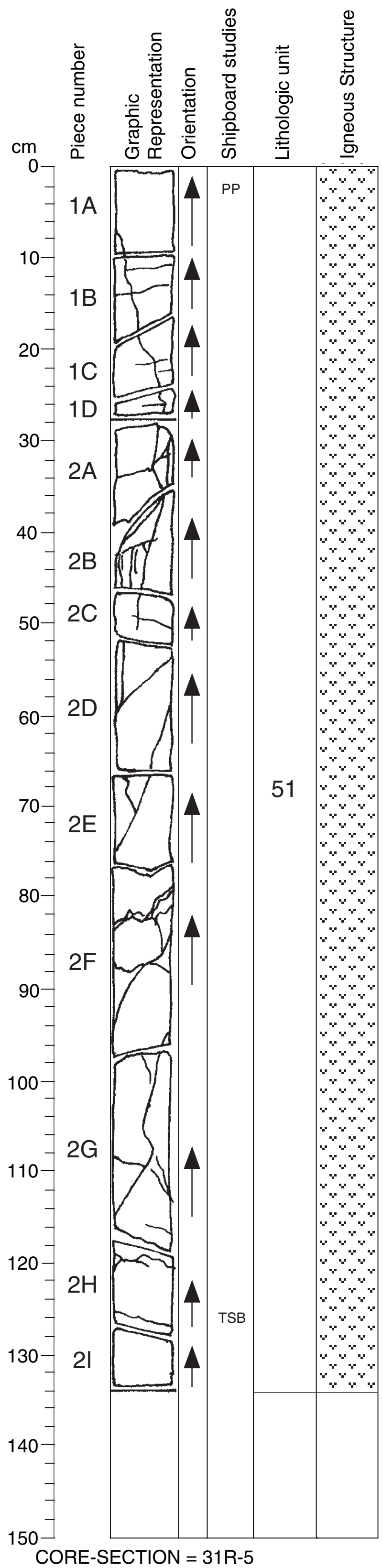
STRUCTURE: Thick massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, randomly oriented, 0.1-2.5 mm, width, saponite +/- carbonate +/- pyrite.

Core Photo

185-801C-31R-5 **Section top: 762.02 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-2I

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	2	0.8	0.2	0.3	eu-subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: <<1%; 0.2 mm in size; filled with calcite.

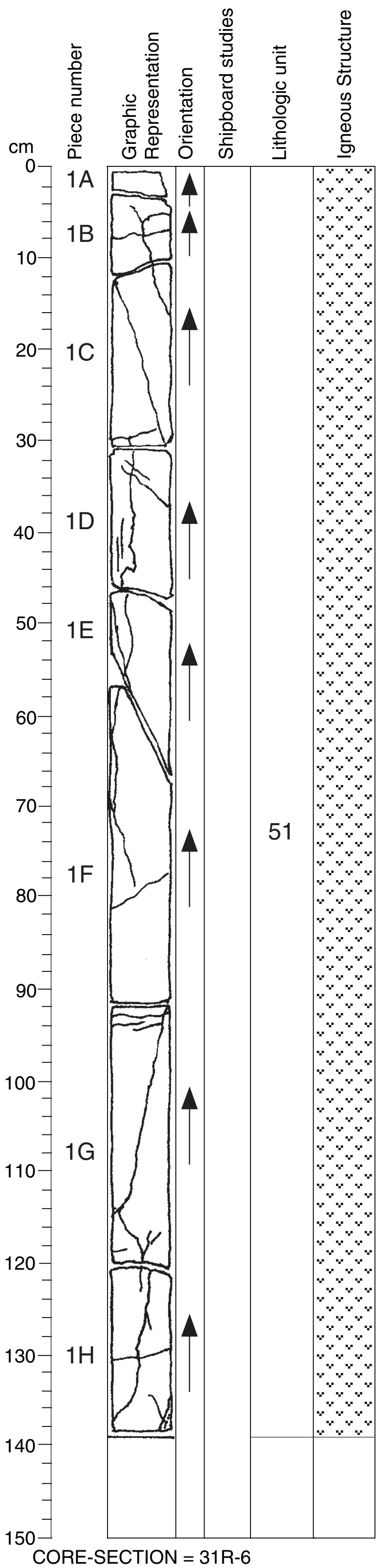
STRUCTURE: Thick massive flow.

ALTERATION: Slightly altered dark gray, with very dark gray halo 10 mm wide associated with vein in piece 2F

VEINS/FRACTURES: 27 veins, subhorizontal to vertical,1-4 mm width, saponite and/or carbonate, +/- pyrite.

Core Photo

185-801C-31R-6 **Section top: 763.35 (mbsf)**



UNIT 51: APHYRIC BASALT

Pieces: 1A-1H

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	1	0.5	0.2	0.3	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

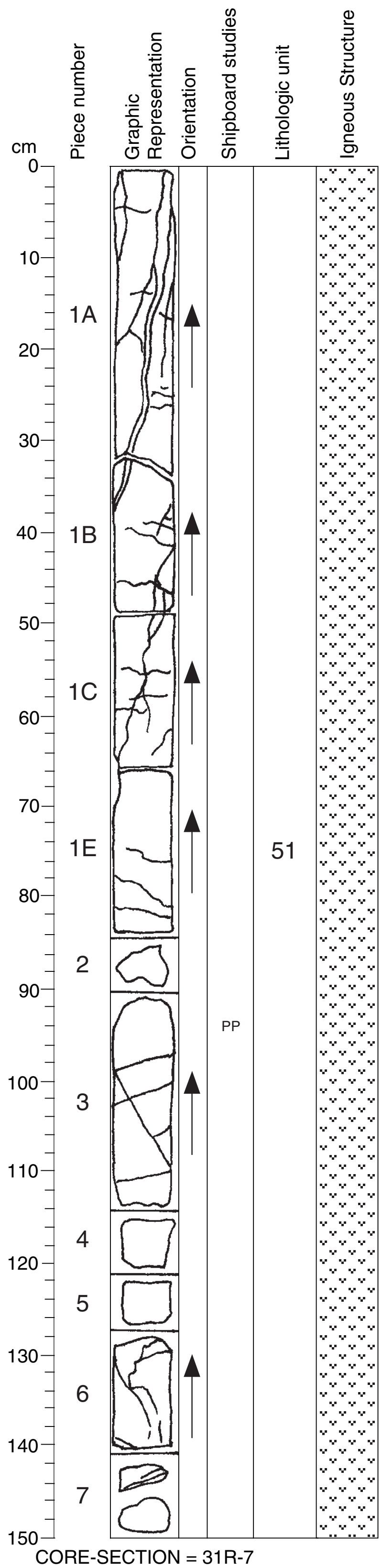
VESICLES: None observed.

STRUCTURE: Thick massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 12 veins, randomly oriented, 0.1-5 mm width, saponite and/or carbonate, +/- pyrite. Acicular aragonite observed at 3 cm in piece 1.

Core Photo



185-801C-31R-7 **Section top:764.75 (mbsf)**

UNIT 51: APHYRIC BASALT

Pieces: 1A-7

CONTACTS: None observed.

PHENOCRYSTS:

	%	Grain Size (mm):			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	3	1	2	euhedral laths
Olivine	1	0.5	0.2	0.3	subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: <1%; 0.1 mm in size; filled with saponite and calcite.

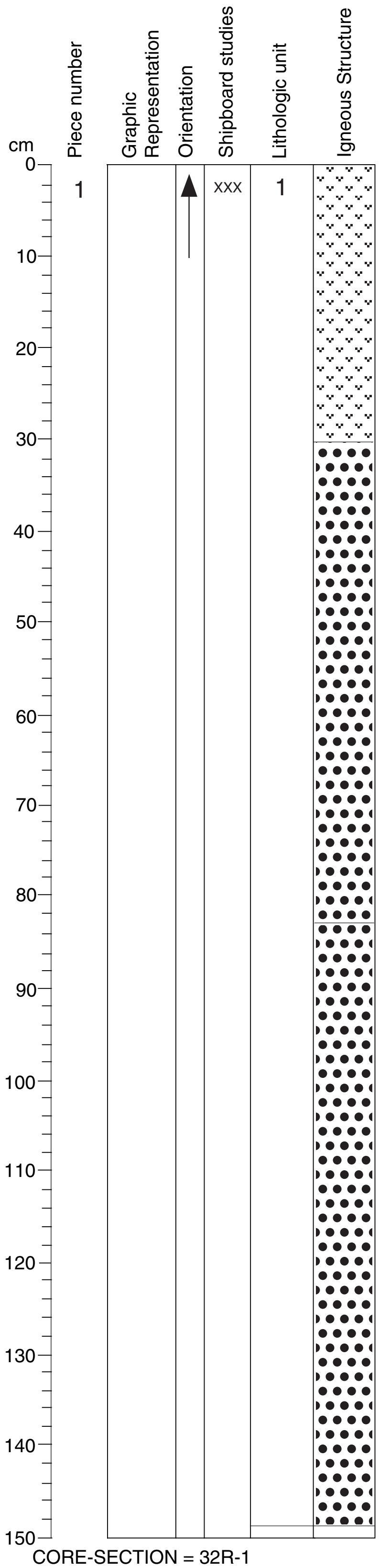
STRUCTURE: Thick massive flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 25 veins, subhorizontal to vertical orientation, 0.1-8 mm width, saponite and/or carbonate, +/- pyrite.

Core Photo

185-801C-32R-1 **Section top: 766.3 (mbsf)**



UNIT 51: SPARSELY OLIVINE PHYRIC BASALT

Pieces: 1

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	1.5	1.0	1.0	euhedral laths

GROUNDMASS: Microcrystalline.

COLOR: Gray.

VESICLES: 1%; 0.1-0.2 mm in size; filled with calcite and saponite.

STRUCTURE: Massive Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 5 veins, subhorizontal to subvertical orientation, 0.2-1 mm, filled with carbonate and/or saponite, +/ pyrite.

UNIT 52: APHYRIC BASALT

Pieces: 2-15

CONTACTS: Brecciated contacts.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	0.5	2.0	0.5	euhedral
Pyroxene	<1	0.5	0.1	0.2	sub-anhedral
Olivine	<1	0.6	0.2	0.5	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray with pale green to dark greenish gray interpillow material.

VESICLES: 0-1%; 0.1 mm; filled with saponite.

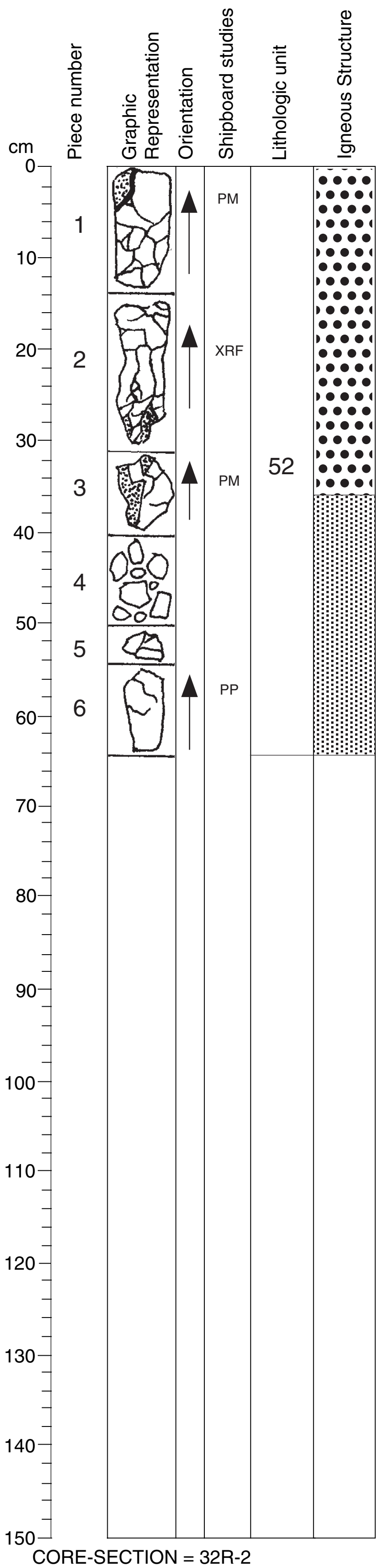
STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray, with localized areas of altered glass.

VEINS/FRACTURES: 8 veins, randomly oriented, 0.1-0.5 mm, saponite +/- carbonate +/- pyrite.

Core Photo

185-801C-32R-2 **Section top: 767.79 (mbsf)**



UNIT 52: APHYRIC BASALT

Pieces: 1-6

CONTACTS: Brecciated contacts.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.3	0.1	0.2	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray with pale green to dark greenish gray interpillow material.

VESICLES: 1%; 0.1 mm in size; filled with saponite.

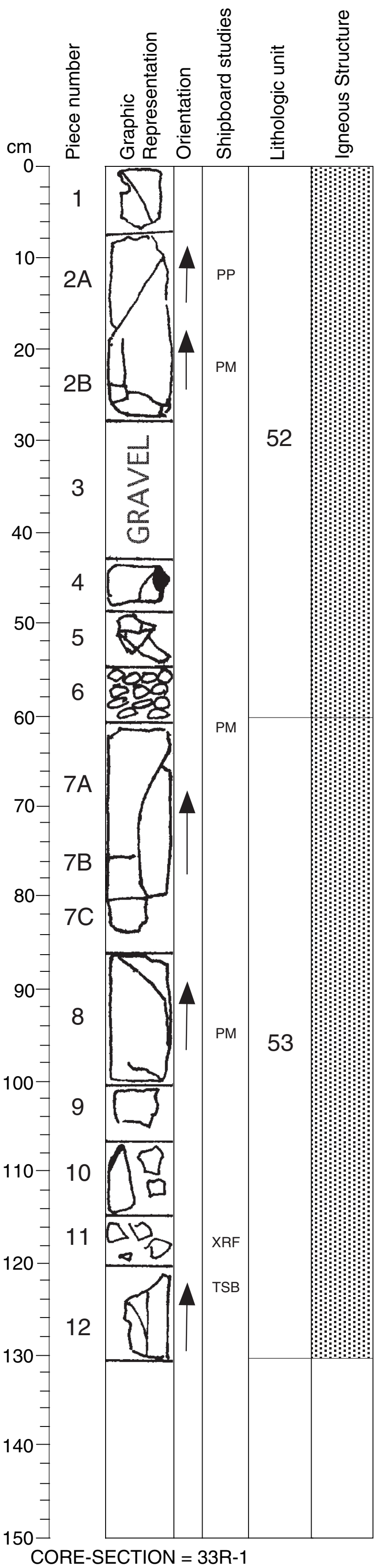
STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 5 veins, randomly oriented, 0.1-0.5 mm, filled with either carbonate +/- Fe-oxy-hydroxide or saponite + pyrite.

Core Photo

185-801C-33R-1 **Section top:775.7 (mbsf)**



UNIT 52: APHYRIC BASALT

Pieces: 1-3

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	2.0	0.6	1.0	euhedral
Pyroxene	<1	1.5	0.5	0.5	euhedral-subhedral
Olivine	<1	0.5	0.2	0.3	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray to dark greenish gray.

VESICLES: 1%; 0.1-0.5 mm; filled with saponite and calcite.

STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 8 veins, random orientation, 0.2-0.8 mm, carbonate, +/- saponite +/- pyrite. 2 veins, beetween 24-28 cm, are filled with saponite +/- minor pyrite.

COMMENTS: Piece 3 dominantly contains fragments of basalt, with minor pieces of chert and hydrothermal deposit. Piece 12 contains 2% olivine phenocrysts.

UNIT 53: APHYRIC BASALT

Pieces: 4-12

CONTACTS: Chilled margin, piece 4.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.5	1.0	1.0	euhedral
Olivine	<1	0.4	0.1	0.2	anhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark greenish gray.

VESICLES: 1%; 0.1-0.5 mm; filled with saponite.

STRUCTURE: Flow.

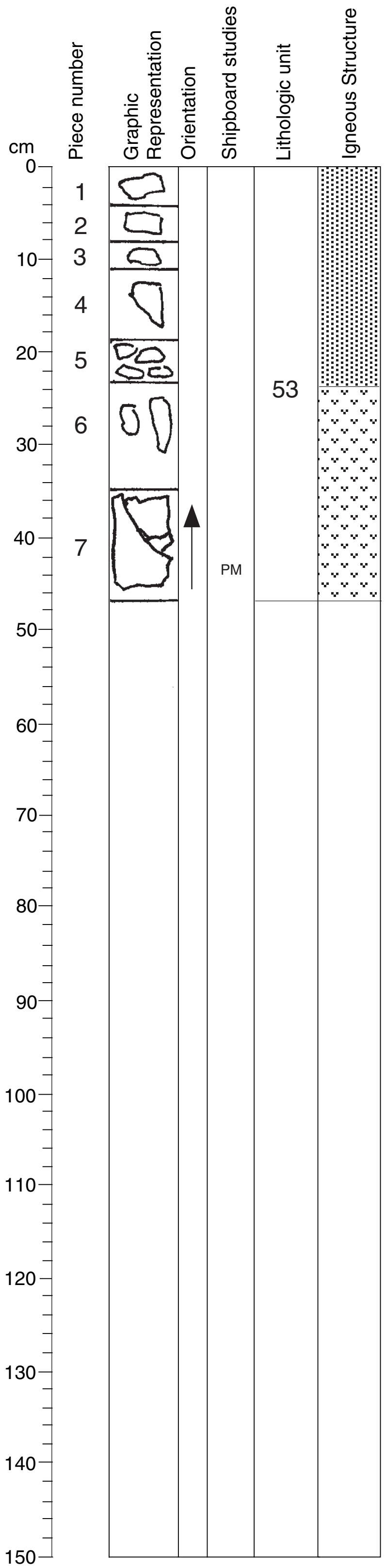
ALTERATION: Slightly altered dark gray, with occasional brown halos up to 5mm across associated with some veins (pieces 7c and 8)

VEINS/FRACTURES: 16 veins, random orientation, 0.1-2.3 mm, saponite and/or carbonate, +/- Fe-oxyhydroxide.

COMMENTS: Piece 3 dominantly contains fragments of basalt, with minor pieces of chert and hydrothermal deposit. Piece 12 contains 2% olivine phenocrysts.

Core Photo

185-801C-33R-2 **Section top: 777.0 (mbsf)**



CORE-SECTION = 33R-2

UNIT 53: APHYRIC BASALT

Pieces: 1-7

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.5	1.0	1.0	euhedral
Olivine	<1	0.8	0.1	0.2	anhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark greenish gray.

VESICLES: 1%; 0.1-0.5 mm in size; filled with saponite.

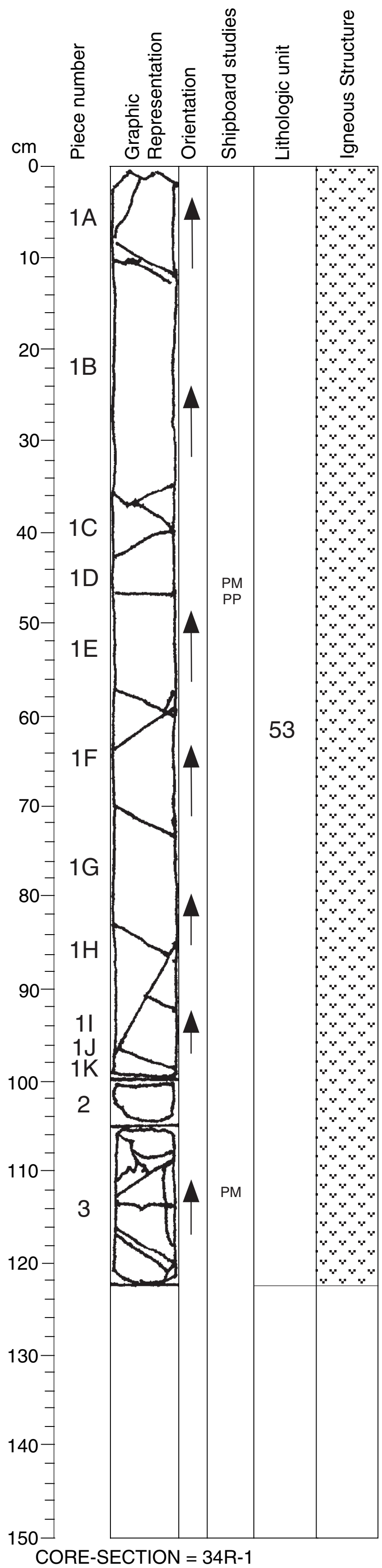
STRUCTURE: Flows/pillows.

ALTERATION: Slightly altered dark gray, with minor amounts of altered glass in piece 2.

VEINS/FRACTURES: 12 veins, randomly oriented, 0.1-1.6 mm, filled by carbonate and/or saponite, +/- pyrite.

Core Photo

185-801C-34R-1 **Section top: 785.3 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1A-3

CONTACTS: Chilled margin, bottom of piece 3.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	1	1	0.5	0.6	subhedral

GROUNDMASS: Microcrystalline to fine grained.

COLOR: Gray.

VESICLES: <1-3%; 0.3-1 mm in size; filled with saponite. Vesicles decrease in abundance in flow/ pillow interior.

STRUCTURE: Thin flow or pillow.

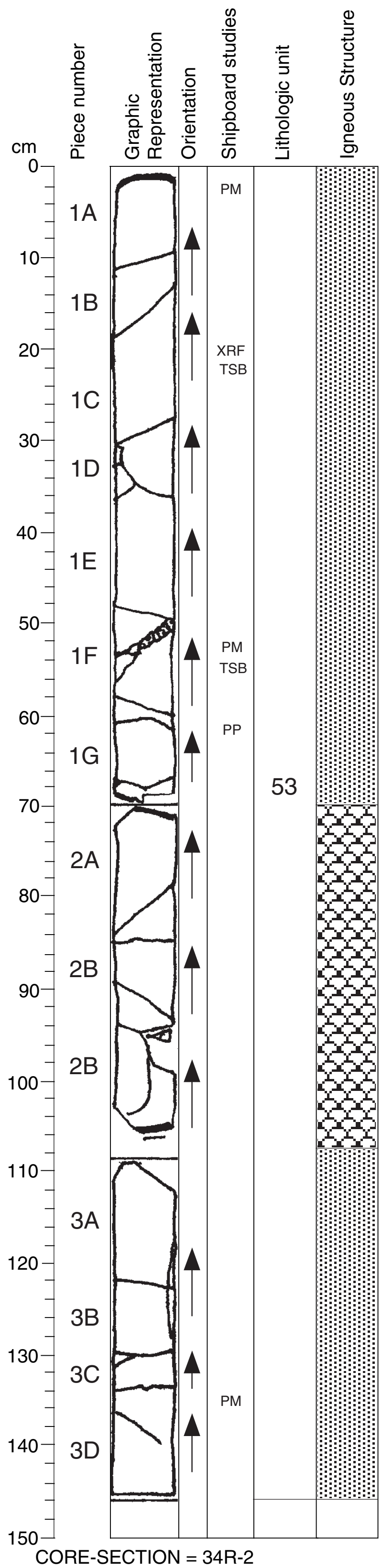
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, subhorizontal to vertical, filled with carbonate and/or saponite, +/ Fe-oxyhyroxide +/ pyrite. Saponite dominates veins above 34R-1 83 cm, and carbonate dominates veins below. Green to brown halos (extending up to 6 mm) occasionally associated with veins.

COMMENTS: Orange and green alteration halos surrounding veins.

Core Photo

185-801C-34R-2 **Section top: 786.5 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1A-3E

CONTACTS: Chilled margins, top and bottom of pieces 1 and 2.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	1	1	0.3	0.5	subhedral-anhedral

GROUNDMASS: Microcrystalline to fine grained.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.2-0.8 mm in size; filled with saponite.

STRUCTURE: Pillows.

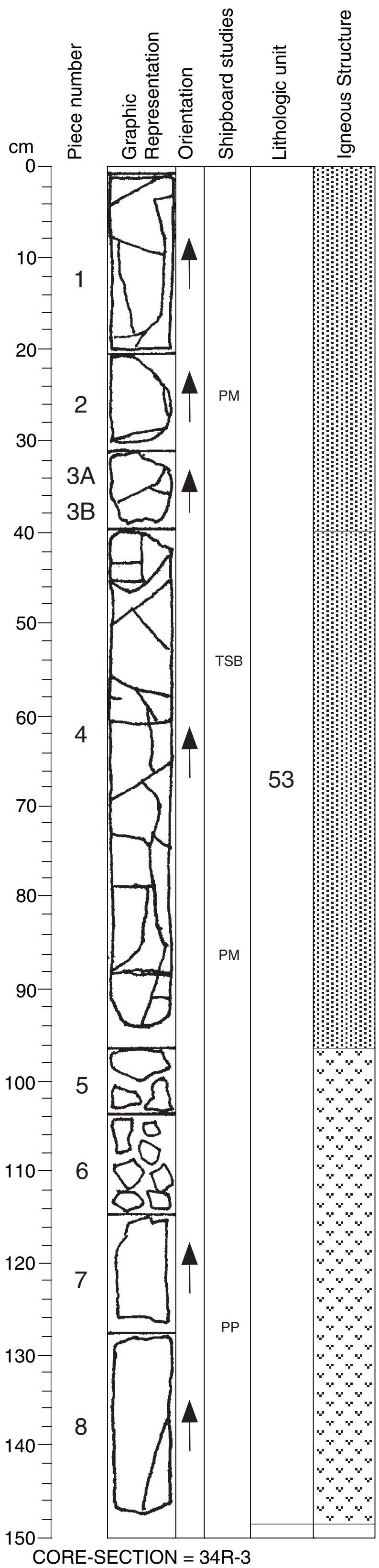
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 32 veins, randomly oriented, 0.1-4 mm width, filled with carbonate and/or saponite, +/ Fe-oxyhydroxide +/-pyrite. 4 veins with substantial proportions of celadonite occur at intervals 65-69, 84-85, 96-100, and 143-146 cm. Prevalent oxidation halos extending up to 15 mm outside of veins.

COMMENTS: Orange and green alteration halos surrounding veins.

Core Photo

185-801C-34R-3 **Section top: 787.9 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-8

CONTACTS: Chilled margin, piece 4.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Olivine	1	1	0.3	0.5	euhedral-subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray.

VESICLES: <1-2%; 0.3-0.8 mm in size; filled with saponite.

STRUCTURE: Pillows.

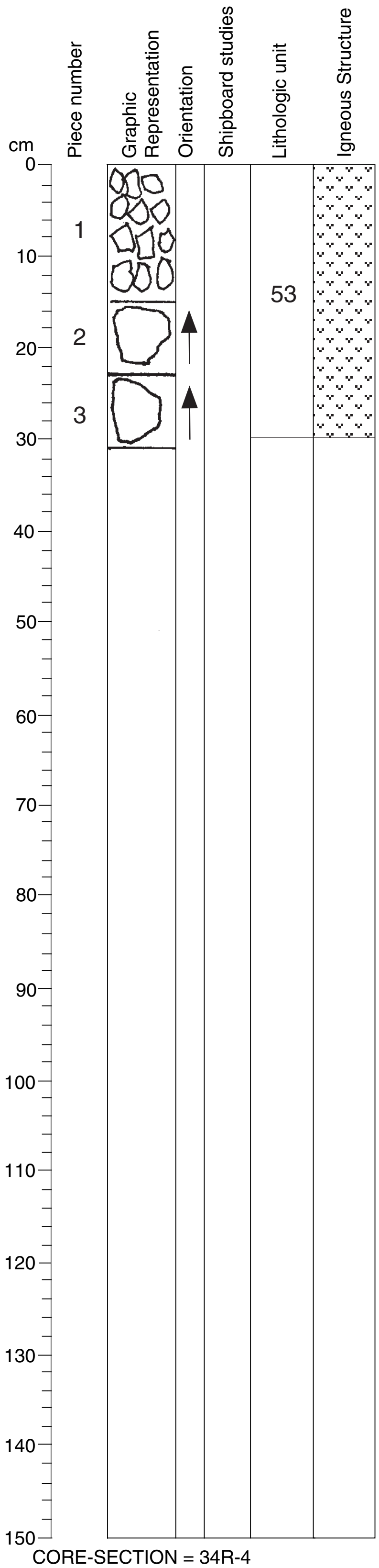
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 26 veins, 0.1-3 mm width, subhorizontal to vertical, filled with saponite +/- carbonate +/- Fe-oxyhydroxide.One vein with associated celadonite between 73-96 cm. Significant number of oxidation halos associated with veins; halos extend up to 6 mm from vein.

COMMENTS: Orange and green alteration halos surrounding veins.

Core Photo

185-801C-34R-4 **Section top: 789.5 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-3

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	2	1	1	euhedral
Olivine	1	1	0.5	0.5	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray.

VESICLES: 1%; 0.3-0.8 mm in size; filled with saponite.

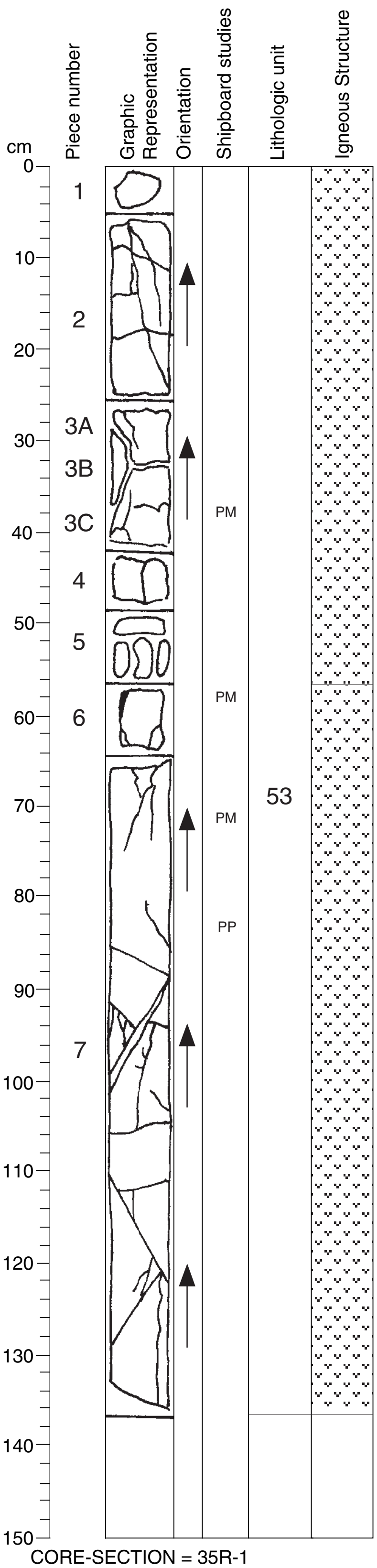
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: One vein, subhorizontal, 0.2 mm wide, filled with pyrite + saponite.

Core Photo

185-801C-35R-1 **Section top: 794.9 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-7

CONTACTS: Chilled margins in piece 6.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.5	0.3	0.5	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray.

VESICLES: <1%; 0.3-0.6 mm in size; filled with calcite and saponite.

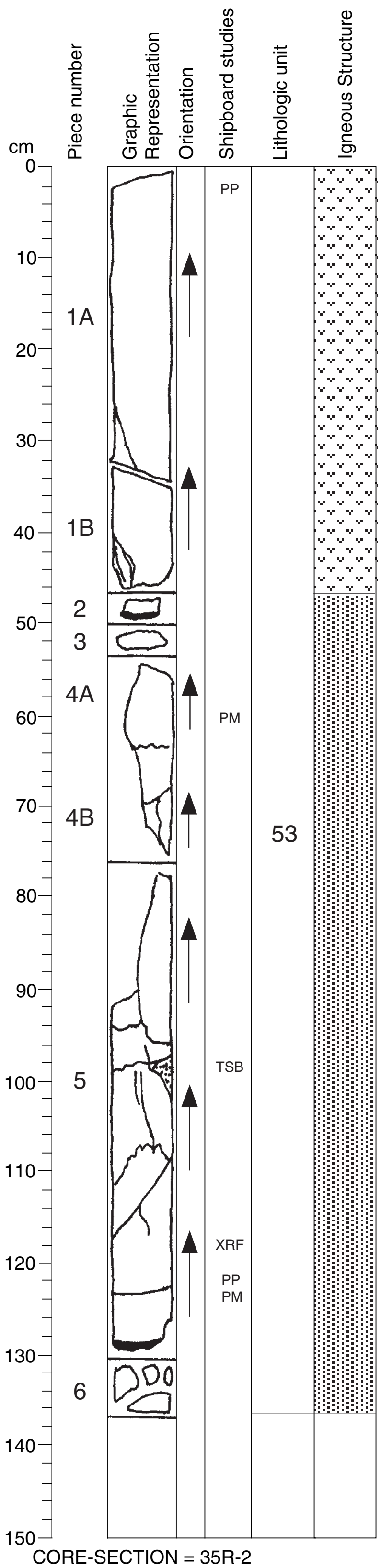
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with minor green / brown halo associated with veins.

VEINS/FRACTURES: 23 veins, subhorizontal to vertical, 0.1-6 mm, filled with saponite +/- calcite +/- Fe-oxyhydroxide +/- pyrite. One vein with celadonite occurs between 38-41 cm.

Core Photo

185-801C-35R-2 **Section top: 796.27 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1A-6

CONTACTS: Chilled margin at the bottom of piece 5.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<<1	0.8	0.5	0.5	subhedral

GROUNDMASS: Microcrystalline, hypocrystalline at pillow rims.

COLOR: Gray to dark gray at pillow rims.

VESICLES: <<1%; 0.2-0.5 mm in size; filled with saponite.

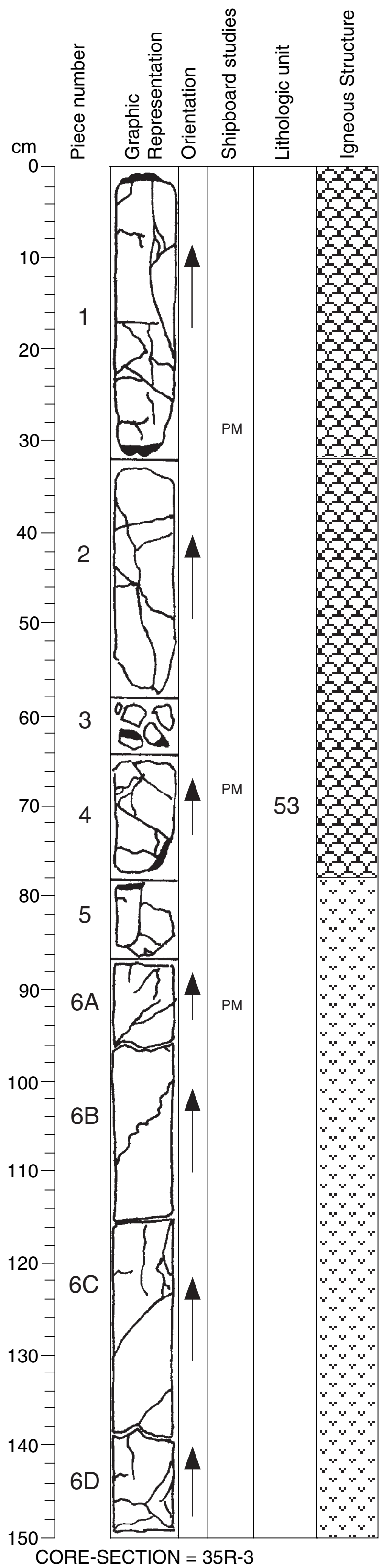
STRUCTURE: Flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 17 veins, subhorizontal to vertical, 0.1-2 mm, filled with saponite +/- calcite +/- pyrite.

Core Photo

185-801C-35R-3 **Section top: 797.64 (mbsf)**



UNIT 53: BASALT

Pieces: 1-6D

CONTACTS: Chilled margin on top and bottom of piece 1; glassy margins in piece 3.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	0.7	euhedral laths
Olivine	<1	1.0	0.3	0.5	euhedral-subhedral

GROUNDMASS: Mainly microcrystalline.

COLOR: Gray.

VESICLES: <1%; 0.2-0.5 mm in size; filled with calcite and saponite.

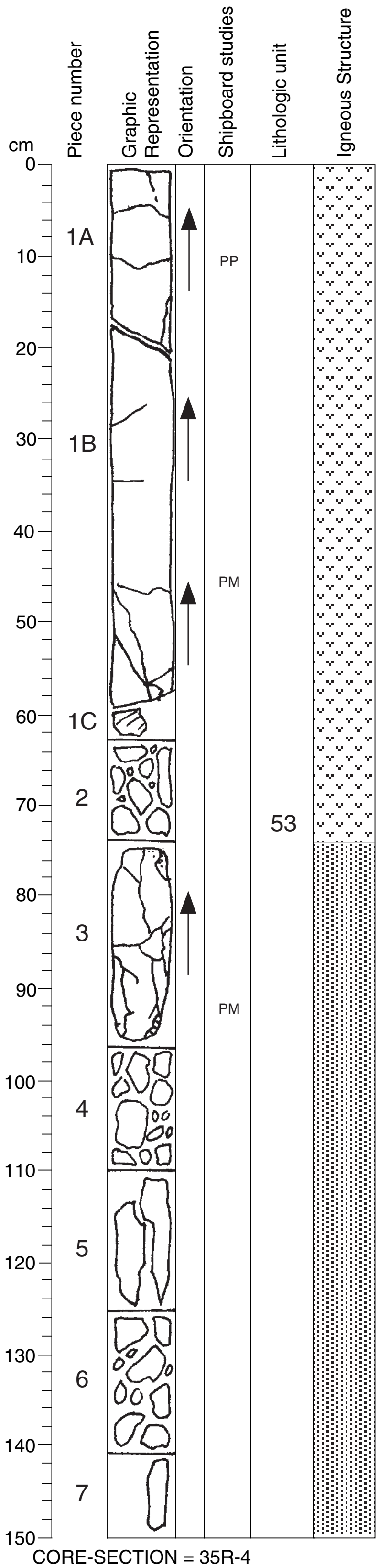
STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray, with minor green / brown halo associated with veins.

VEINS/FRACTURES: 48 veins, subhorizontal to vertical, 0.1-2.5 mm, filled with saponite +/- calcite +/- Fe-oxyhydroxide.

Core Photo

185-801C-35R-4 **Section top: 799.13 (mbsf)**



UNIT 53: BASALT

Pieces: 1A-7

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.0	0.5	0.8	euhedral

GROUNDMASS: Fine grained.

COLOR: Gray.

VESICLES: <1%; 0.3-0.5 mm in size; filled with saponite.

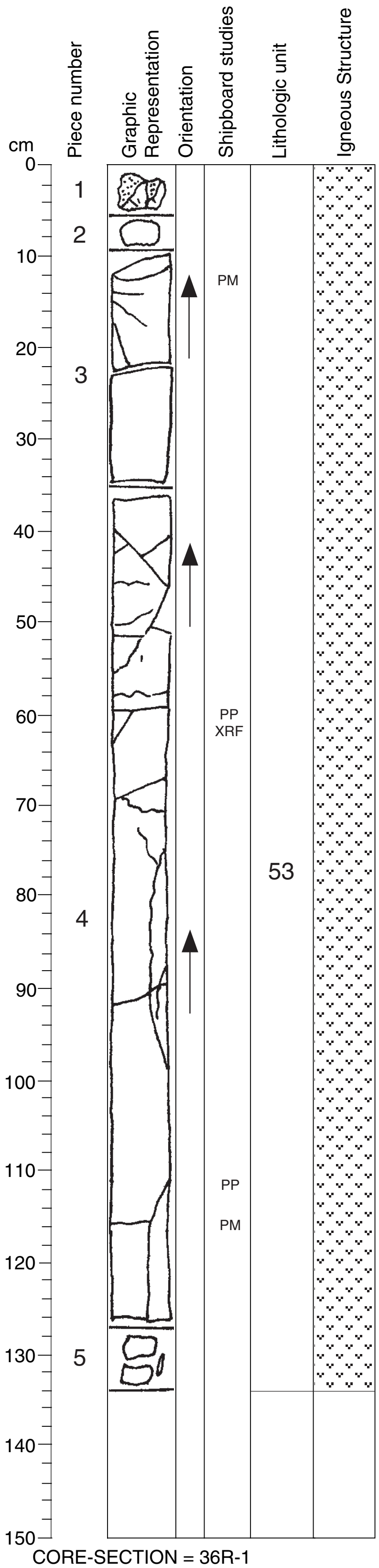
STRUCTURE: Pillows or flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, subhorizontal to vertical, 0.1-2 mm, filled with saponite +/- calcite +/- pyrite. 2 veins with celadonite occur between 75-90 and 81-87 cm.

Core Photo

185-801C-36R-1 **Section top: 804.1 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-6

CONTACTS: None observed.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Olivine	<1	0.5	0.2	0.2	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.2-0.5 mm in size; filled with saponite.

STRUCTURE: Flow.

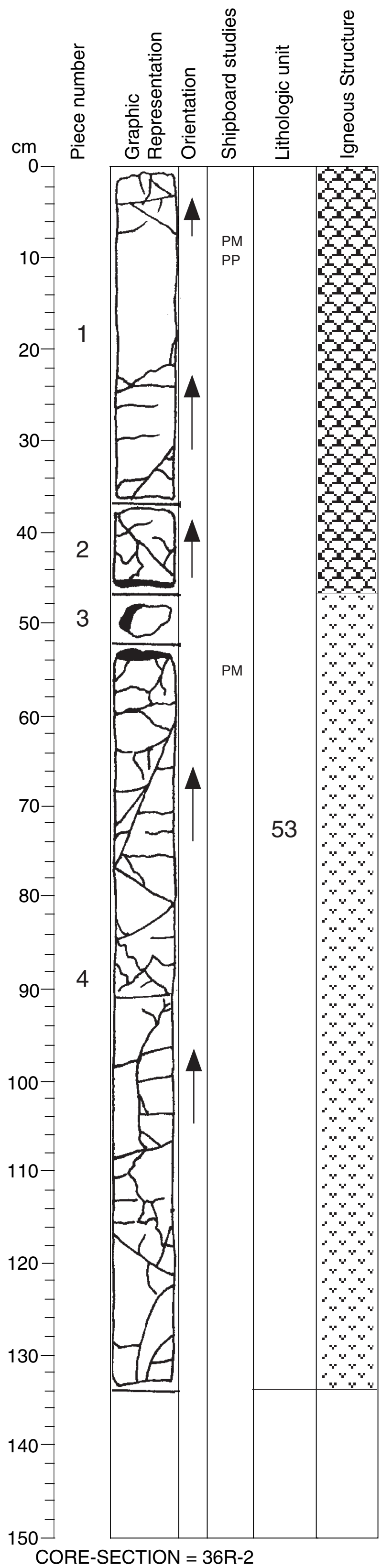
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 19 veins, randomly oriented, 0.1-2 mm, filled by saponite +/- carbonate +/ Fe-oxyhydroxide +/- pyrite or carbonate.

COMMENTS: Top of section is brecciated.

Core Photo

185-801C-36R-2 **Section top: 805.44 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-4

CONTACTS: Chilled margins throughout.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.2	1.0	0.3	subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.1-0.3 mm in size; filled with saponite.

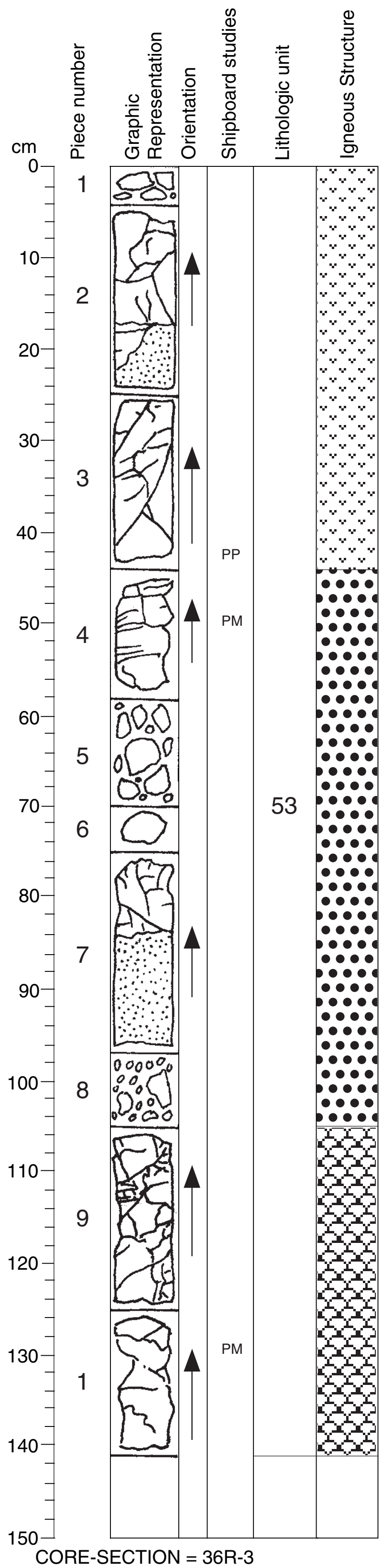
STRUCTURE: Pillows and Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 45 veins, randomly oriented, 0.1-1.5 mm, filled by saponite +/- carbonate +/ Fe-oxyhydroxide +/- pyrite, or carbonate.

Core Photo

185-801C-36R-3 **Section top: 806.76 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-10

CONTACTS: Chilled margins throughout.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.5	0.1	0.2	anhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Dark gray.

VESICLES: <1-1%; 0.2-0.5 mm in size; filled with saponite.

STRUCTURE: Breccia, Flow.

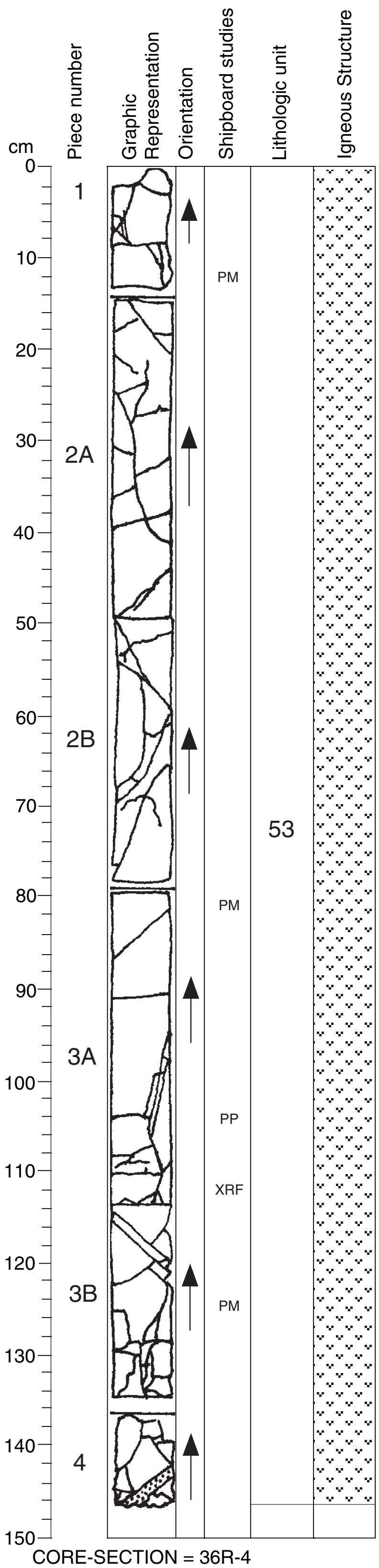
ALTERATION: Slightly altered dark gray, with brown and green halos surrounding veins.

VEINS/FRACTURES: 35 veins, randomly oriented, 0.1-3 mm, filled by saponite +/- celadonite +/- carbonate +/ Fe-oxyhydroxide +/-pyrite. 6 veins composed almost or entirely of celadonite occur between the intervals of 10-15, 76-85 cm

COMMENTS: Breccia consists of fragmented angular basalt pieces up to 5 cm in green and white breccia matrix.

Core Photo

185-801C-36R-4 **Section top: 808.18 mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-4

CONTACTS: Chilled margin on top of piece 1.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1	0.5	0.7	euhedral
Olivine	<1	1	0.2	0.3	subhedral
Pyroxene	<1	1	0.5	0.5	euhedral

GROUNDMASS: Microcrystalline to fine grained in center.

COLOR: Gray to dark gray.

VESICLES: <1-2%; 0.1-0.8 mm in size; filled with saponite and calcite.

STRUCTURE: Flow.

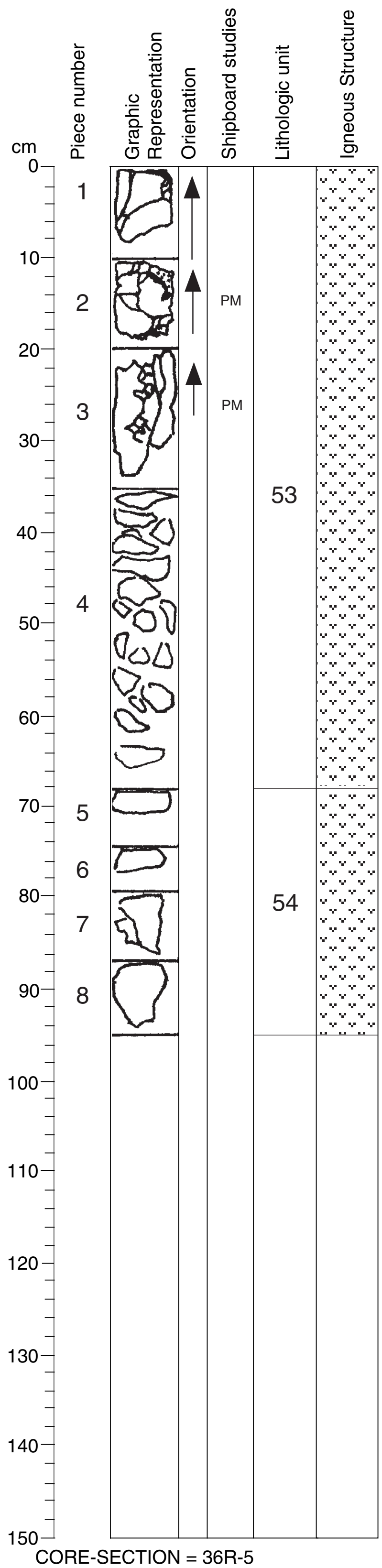
ALTERATION: Slightly altered dark gray, with brown and green vein halos developed in piece 3b.

VEINS/FRACTURES: 47 veins, randomly oriented, 0.1-1.5 mm, filled by saponite +/- carbonate +/- Fe-oxyhydroxide +/- pyrite or carbonate. Some associated with halos (up to 5 mm) and a vein between the interval between 119-130 cm is a carbonate filled en-echelon fracture system.

COMMENTS: Pyroxene and plagioclase phenocrysts are only observed in one piece

Core Photo

185-801C-36R-5 **Section top: 809.68 (mbsf)**



UNIT 53: APHYRIC BASALT

Pieces: 1-5

CONTACTS: Chilled margin at the top of piece 1.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.9	0.2	0.5	euhedral

GROUNDMASS: Microcrystalline to fine grained in center.

COLOR: Gray to dark gray.

VESICLES: <1 %, size range 0.1-0.2 mm., filled with saponite

STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 15 veins, randomly oriented, 0.1-1.5 mm, filled by saponite +/- pyrite. Occurence of a 4 mm wide, vertical celadonite-bearing vein in the interval of 21-29 cm.

UNIT 54: APHYRIC BASALT

Pieces: 6-8

CONTACTS: Chilled margin at the bottom of piece 8.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.5	0.1	0.2	subhedral

GROUNDMASS: Microcrystalline

COLOR: Gray to dark gray.

VESICLES: 1 %, size 0.2 mm., filled with saponite

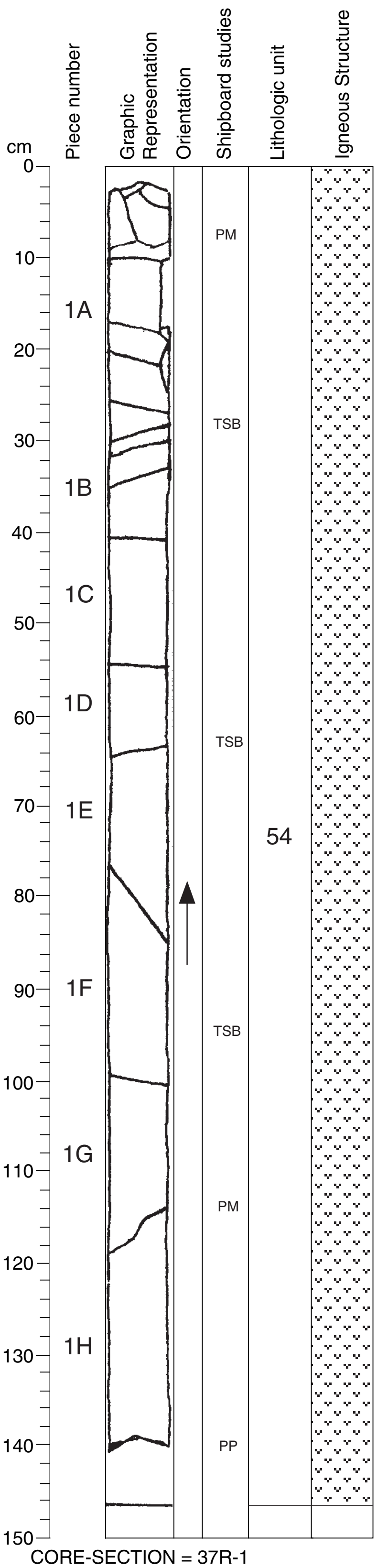
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 15 veins, randomly oriented, 0.1-1.5 mm, filled by saponite +/- pyrite. Occurence of a 4 mm wide, vertical celadonite-bearing vein in the interval of 21-29 cm.

Core Photo

185-801C-37R-1 **Section top: 813.3 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1H

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1-1	0.4	0.1	0.2	subhedral

GROUNDMASS: Microcrystalline to fine grained.

COLOR: Gray.

VESICLES: 0-5%; 0.5-1.5 mm in size; filled with calcite and saponite. Abundance increases towards base of section.

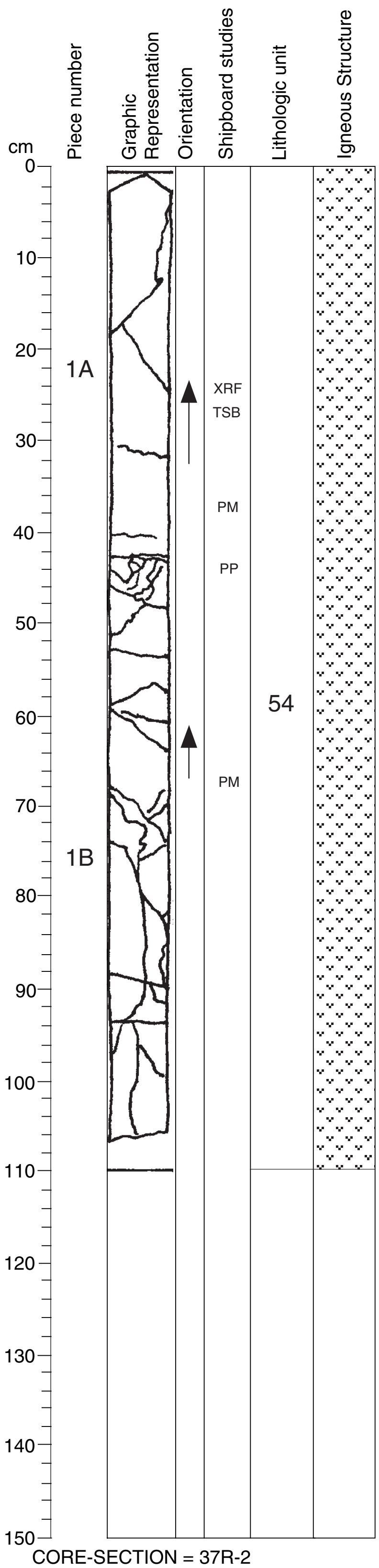
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 26 veins, randomly oriented, 0.1-5 mm, filled with saponite +/- carbonate +/- Fe-oxyhydroxide. 3 carbonate veins occur in the interval of 29-45 cm. 2 mm brown halos (disseminated oxidized iron) surrounding saponite veins in the interval of 7-17 cm.

Core Photo

185-801C-37R-2 **Section top: 814.75 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1B

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Fine grained.

COLOR: Gray.

VESICLES: 1-10%; 1-3mm in size; mainly filled with calcite; close to vein vesicles are filled with saponite and sulphide.

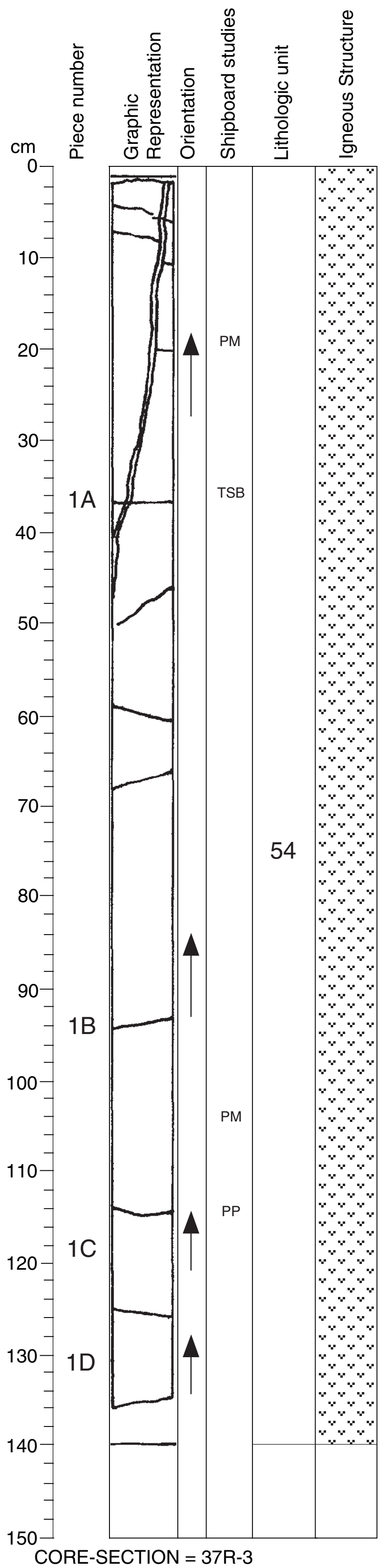
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 28 veins, randomly oriented, 0.1-4 mm width, filled with carbonate +/- saponite +/- Fe-oxyhydroxide. Up to 15 mm thick, brown halos (disseminated oxidized iron) surround some veins.

Core Photo

185-801C-37R-3 **Section top: 815.85 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1D

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Fine grained to medium grained (groundmass plagioclase about 1.5 mm) at the bottom of section.

COLOR: Speckled gray.

VESICLES: 3%; 0.2 mm in size; filled with calcite; often aligned.

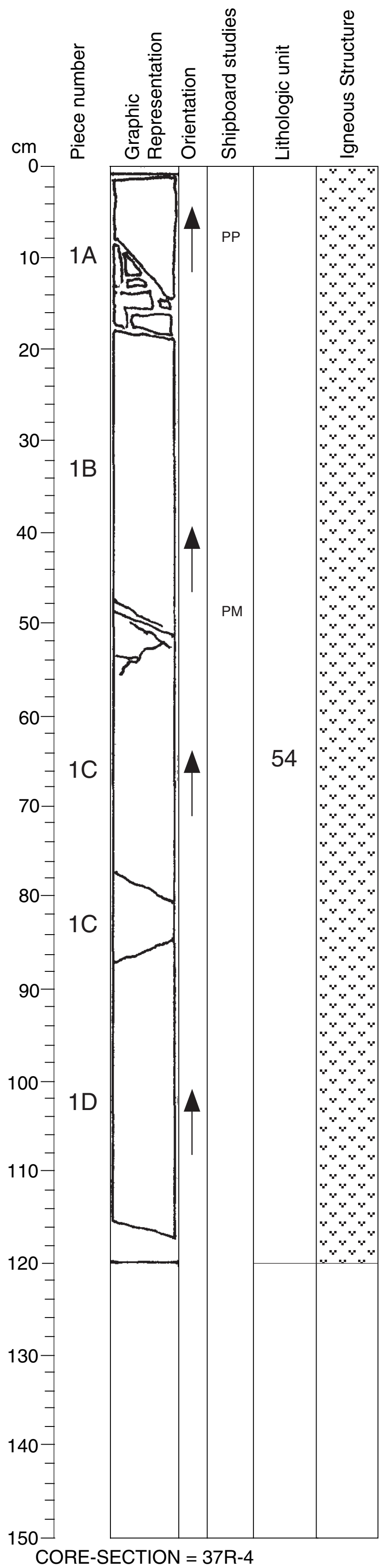
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 11 veins, subhorizontal to subvertical, 0.1-4 mm width, filled with carbonate and/or saponite +/- Fe-oxyhydroxide.

Core Photo

185-801C-37R-4 **Section top: 817.26 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1D

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Fine to medium grained (groundmass plagioclase up to 2 mm).

COLOR: Speckled dark gray.

VESICLES: <1%; 0.5 mm in size; filled with calcite and saponite.

STRUCTURE: Flow.

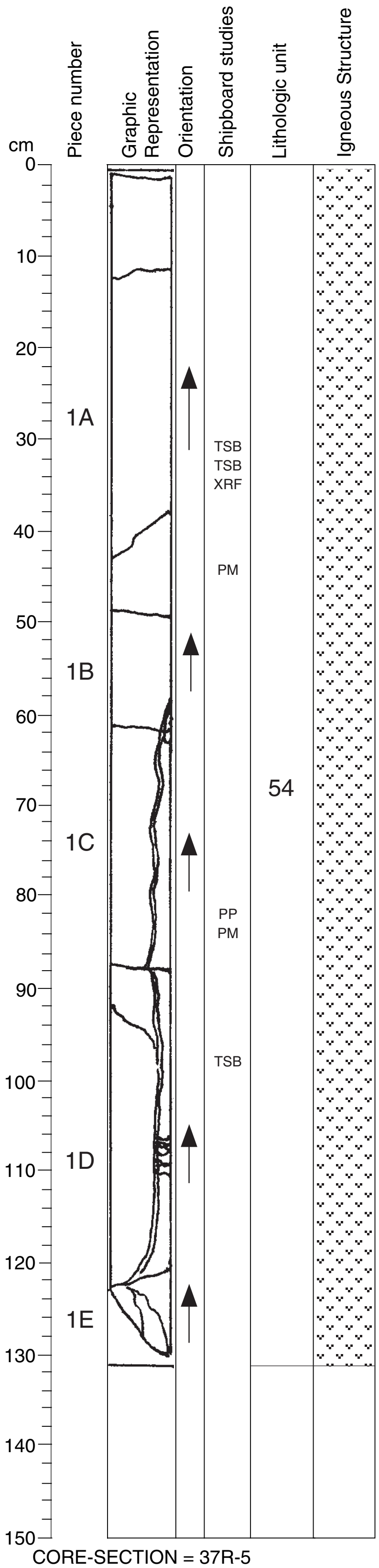
ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 8 veins, subhorizontal to subvertical, 0.1-0.5 mm width, filled with saponite +/- carbonate +/- pyrite or carbonate.

COMMENTS: Homogeneous section.

Core Photo

185-801C-37R-5 **Section top: 818.46 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1E

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS:

COLOR: Dark to very dark speckled gray.

VESICLES: None observed.

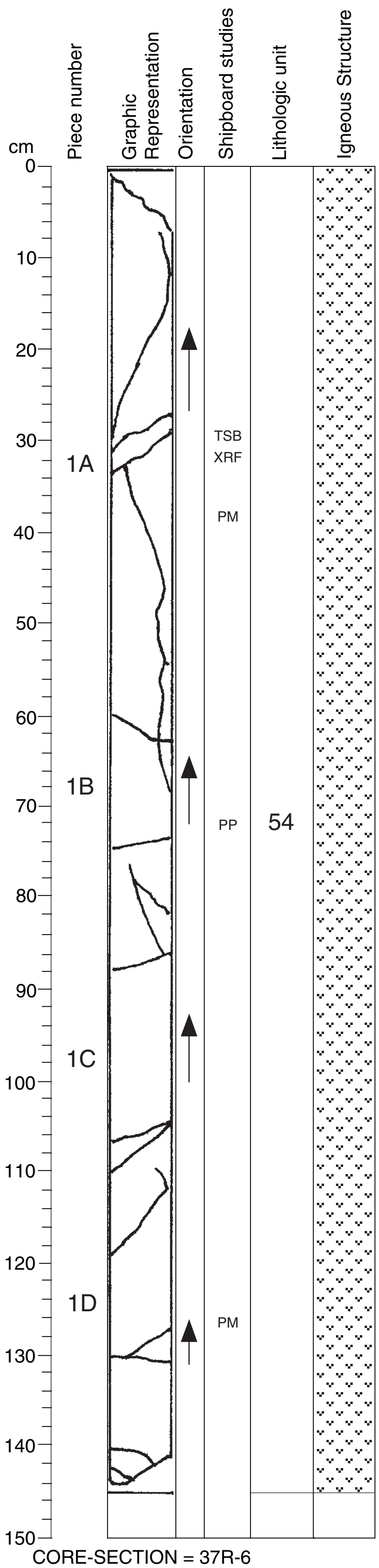
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 7 veins, subhorizontal to vertical orientation, 0.1-10 mm, filled with saponite and/or carbonate, +/- pyrite. In the 106-112 cm interval are carbonate filled extensional fractures.

Core Photo

185-801C-37R-6 **Section top: 819.8 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1D

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Medium grained.

COLOR: Speckled dark gray to gray.

VESICLES: None observed.

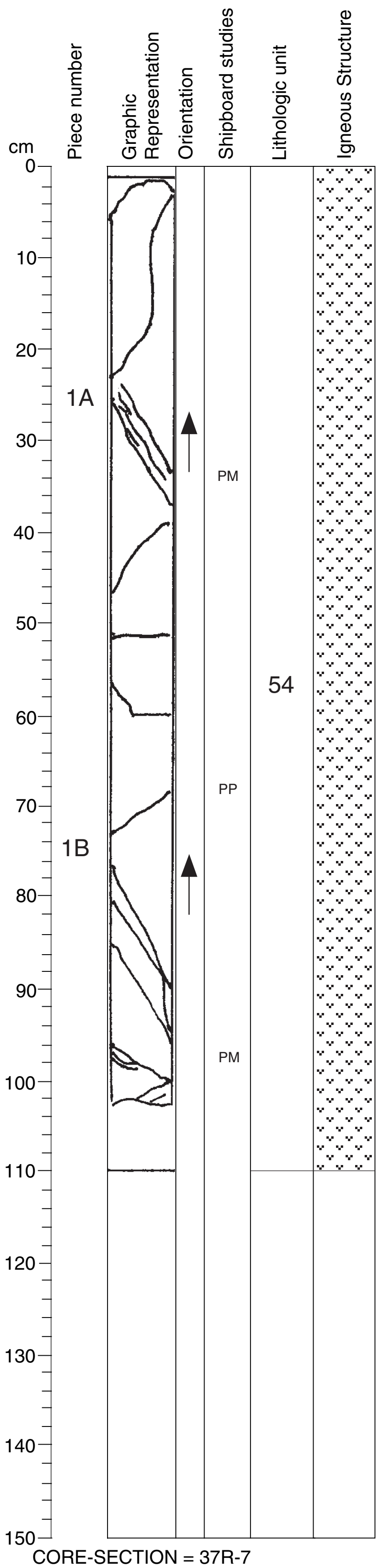
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 19 veins, subvertical to vertical orientation, 0.1-2.5 mm width, filled by carbonate and/or saponite. Some saponite-bearing veins associated with brown and green halos extending up to 18 mm.

Core Photo

185-801C-37R-7 **Section top: 821.3 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1B

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Fine grained.

COLOR: Speckled dark gray to gray.

VESICLES: None observed.

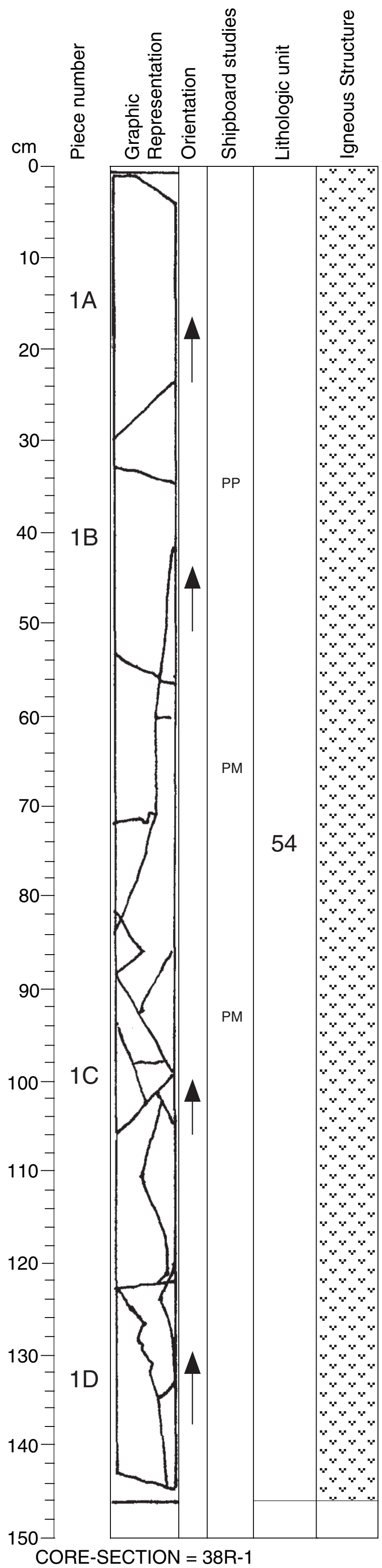
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 20 veins, subhorizontal to vertical orientation, 0.1-4 mm width, filled with carbonate and/or saponite. Some veins associated with brown to green halos. Halos extend up to 6 mm from vein. Celadonite bearing vein between 69-74 cm.

Core Photo

185-801C-38R-1 **Section top: 822.8 (mbsf)**



UNIT 54: APHYRIC BASALT

Pieces: 1A-1D

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Fine grained.

COLOR: Dark bluish gray.

VESICLES: None observed.

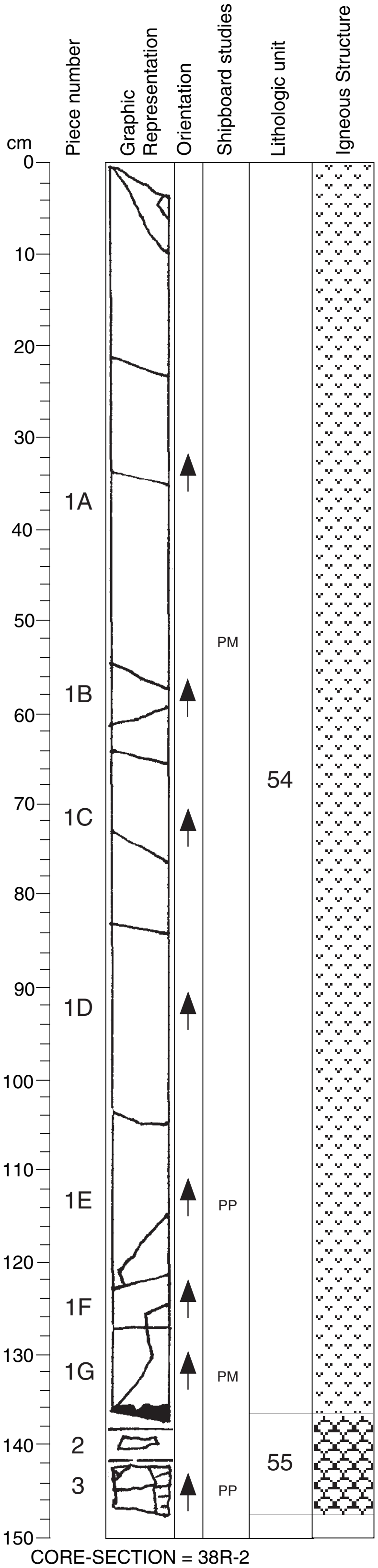
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 28 veins, randomly oriented, 0.1-5 mm width, filled with carbonate +/- saponite +/- Fe-oxyhydroxide. One vein in the 122-146 cm interval has minor quartz. Veins in the 2-86 cm interval have associated brown to brown-green halos.

Core Photo

185-801C-38R-2 Section top: 824.27 (mbsf)



UNIT 54: APHYRIC BASALT

Pieces: 1A-G

CONTACTS: Chilled margin in piece 1G.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	0.2	0.2	0.5	subhedral
Olivine	<1	1	0.5	0.8	subhedral

GROUNDMASS: Fine grained to microcrystalline.

COLOR: Gray to very dark gray at base.

VESICLES: None observed.

STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with brown and green vein halos.

VEINS/FRACTURES: 15 veins, randomly oriented, 0.1-3.2 mm width, filled with carbonate and/or saponite, +/- Fe-oxyhydroxide +/- pyrite. Brown to green halos associated with some veins.

COMMENTS: Phenocrysts are present only in piece 1G, near the contact. Some olivine phenocrysts have lath-shaped morphology.

UNIT 55: APHYRIC BASALT

Pieces: 2-3

CONTACTS: Chilled margin in piece 3.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.5	0.3	0.5	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Very dark gray.

VESICLES: None observed.

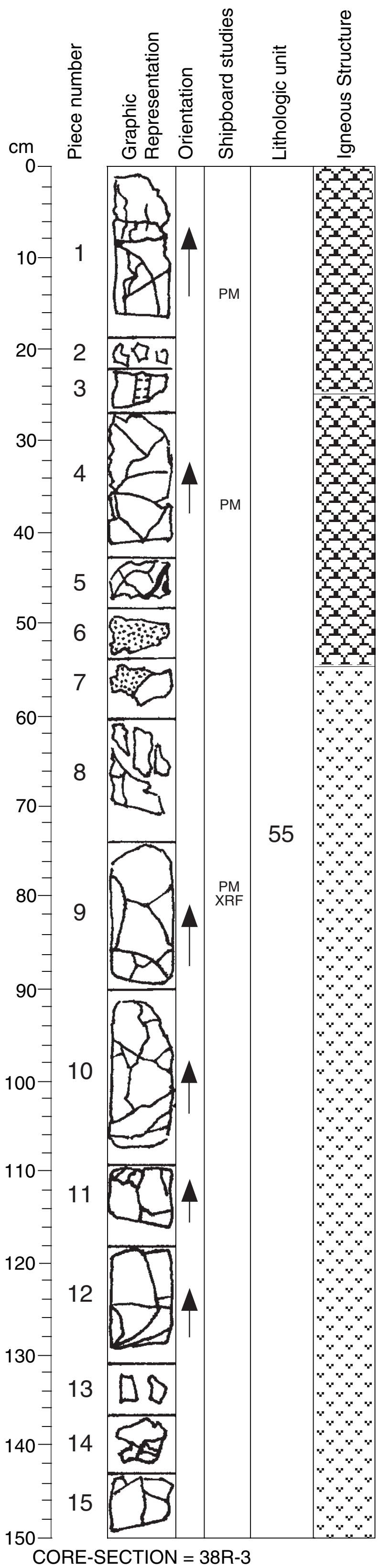
STRUCTURE: Pillow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 10 veins, randomly oriented, 0.1- 2 mm width, filled with carbonate and/or saponite, +/- Fe-oxyhydroxide. Brown to green halos associated with some veins.

Core Photo

185-801C-38R-3 **Section top: 825.77 (mbsf)**



UNIT 55: APHYRIC BASALT

Pieces: 1-15

CONTACTS: Chilled margins in pieces 2, 3, 5, and 7.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1	0.3	0.5	euhedral-subhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Dark gray to very dark gray.

VESICLES: One vesicle observed in piece 12; 0.5 mm in size; filled with saponite.

STRUCTURE: Pillows.

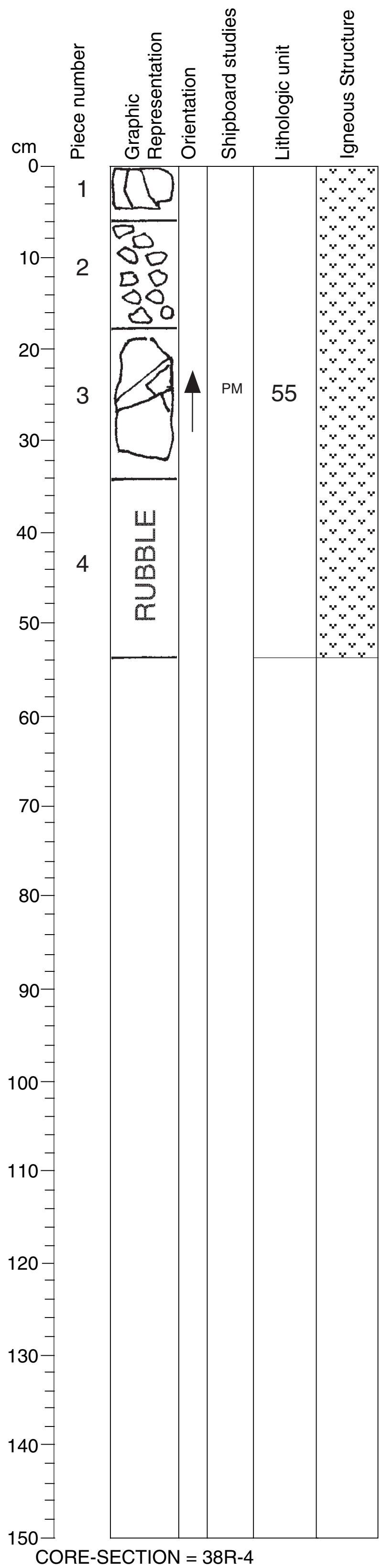
ALTERATION: Slightly altered dark gray, with altered glass in pieces 5,6, and 7.

VEINS/FRACTURES: 74 veins, randomly oriented, 0.1-6 mm width, veins filled with saponite and/or carbonate, +/- Fe-oxyhydroxide.

COMMENTS: Hyaloclastite in pieces 6 and 7.

Core Photo

185-801C-38R-4 **Section top: 827.27 (mbsf)**



UNIT 55: APHYRIC BASALT

Pieces: 1-4

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.5	0.2	0.2	subhedral-anhedral

GROUNDMASS: Microcrystalline.

COLOR: Dark gray to very dark gray.

VESICLES: <1% abundance; 0.5-1.0 mm in size; filled with smectite and sulfides.

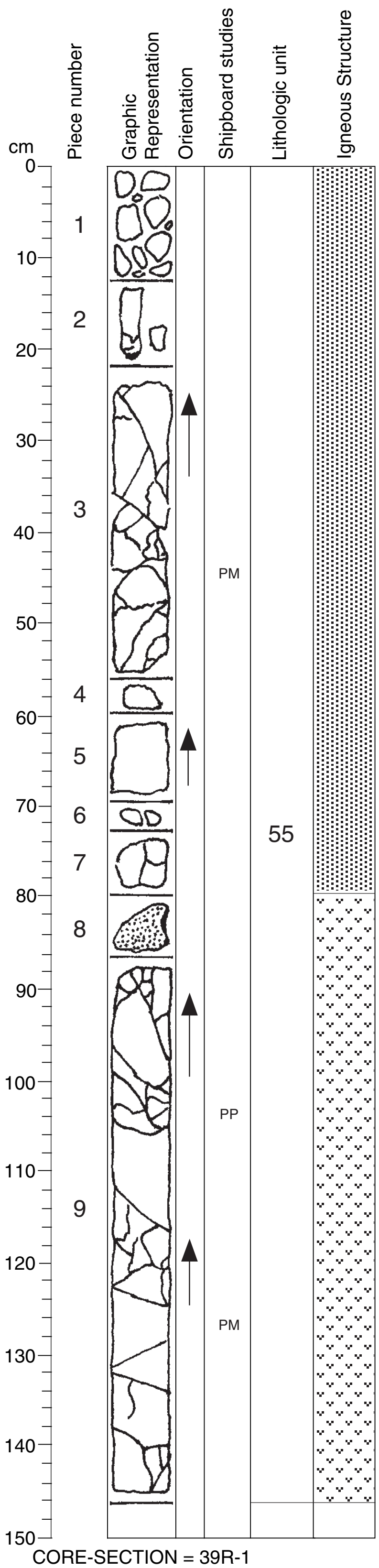
STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 15 veins, randomly oriented, 0.1-0.9 mm, veins filled with saponite +/- carbonate +/- Fe-oxyhydroxide +/-pyrite.

Core Photo

185-801C-39R-1 **Section top: 832.2 (mbsf)**



UNIT 55: APHYRIC BASALT

Pieces: 1-9

CONTACTS: Chilled and glassy margins throughout.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Olivine	<1	1.0	0.1	0.4	euhedral-subhedral

GROUNDMASS: Glassy, hypocrystalline to microcrystalline.

COLOR: Gray, greenish gray to dark gray.

VESICLES: <1-2%; 0.1-0.5 mm in size; filled with saponite.

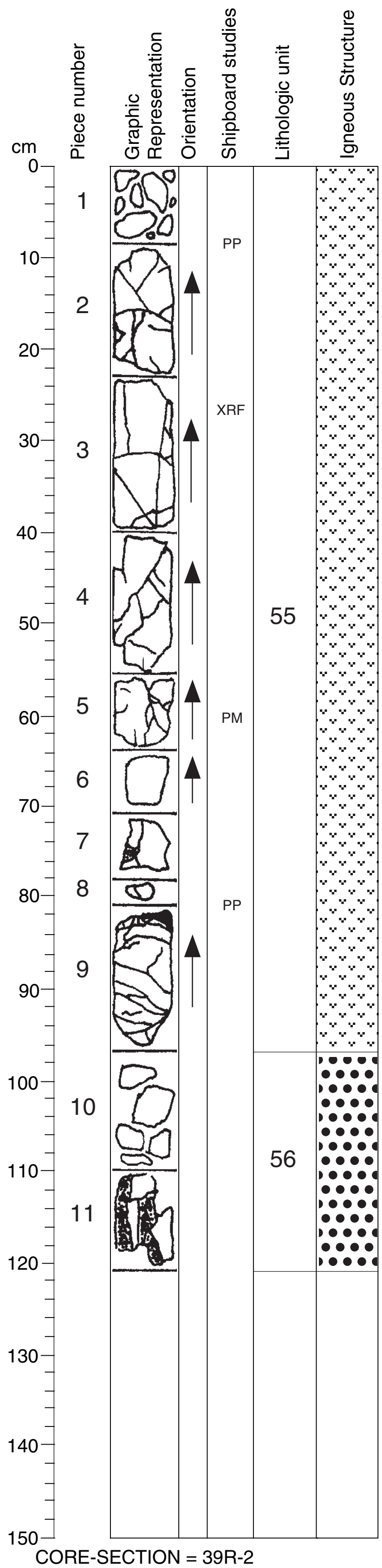
STRUCTURE: Pillows or flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 42 veins, randomly oriented, 0.1-1 mm width, filled with saponite +/- Fe-oxyhydroxide +/- pyrite +/-carbonate. Some veins associated with dark halos extending 2-5 mm.

Core Photo

185-801C-39R-2 **Section top: 833.67 (mbsf)**



UNIT 55: APHYRIC BASALT

Pieces: 1-9

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	1.0	0.2	0.5	euhedral
Olivine	<1	0.8	0.2	0.5	euhedral-subhedral

GROUNDMASS: Fine grained to microcrystalline.

COLOR: Gray to dark gray.

VESICLES: 1%; 0.2-0.5 mm in size; filled with calcite and saponite.

STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 35 veins, randomly oriented, 0.1-16 mm, filled with saponite +/- carbonate +/- Fe-oxyhydroxide +/- pyrite.

UNIT 56: SPARSELY OLIVINE PHYRIC BASALT BRECCIA

Pieces: 10-11

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	1	0.5	0.1	0.3	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray to dark gray.

VESICLES: None observed.

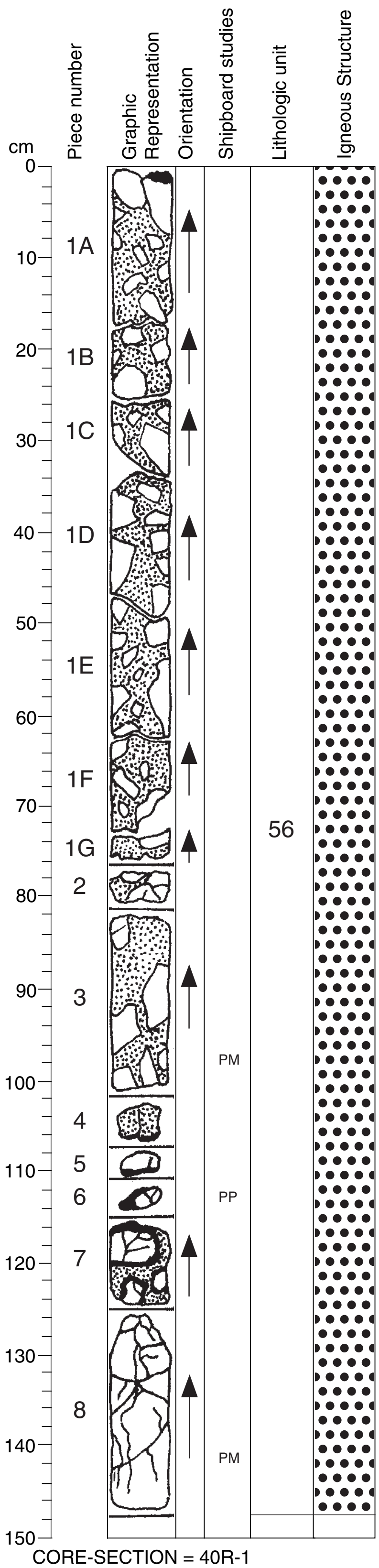
STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 35 veins, randomly oriented, 0.1-16 mm, filled with saponite +/- carbonate +/- Fe-oxyhydroxide +/- pyrite.

Core Photo

185-801C-40R-1 **Section top: 841.5 (mbsf)**



UNIT 56: SPARSELY OLIVINE PHYRIC BASALT BRECCIA

Pieces: 1A-8

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	1	0.1	0.05	0.1	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray.

VESICLES: None observed.

STRUCTURE: Breccia.

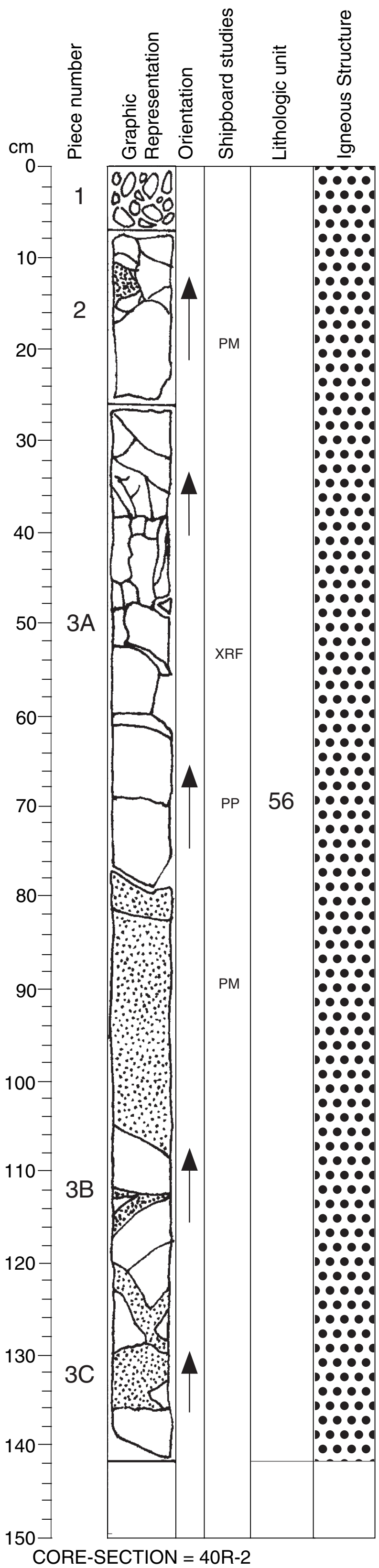
ALTERATION: Slightly altered dark gray, with some dark halo.

VEINS/FRACTURES: None observed.

COMMENTS: Mainly whitish cement.

Core Photo

185-801C-40R-2 **Section top: 842.98 (mbsf)**



UNIT 56: SPARSELY OLIVINE PHYRIC BASALT BRECCIA

Pieces: 1-3C

CONTACTS: None observed.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	0.5	0.3	0.4	euhedral
Olivine	1	0.4	0.2	0.4	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray.

VESICLES: <1%; 0.2 mm in size; filled with saponite.

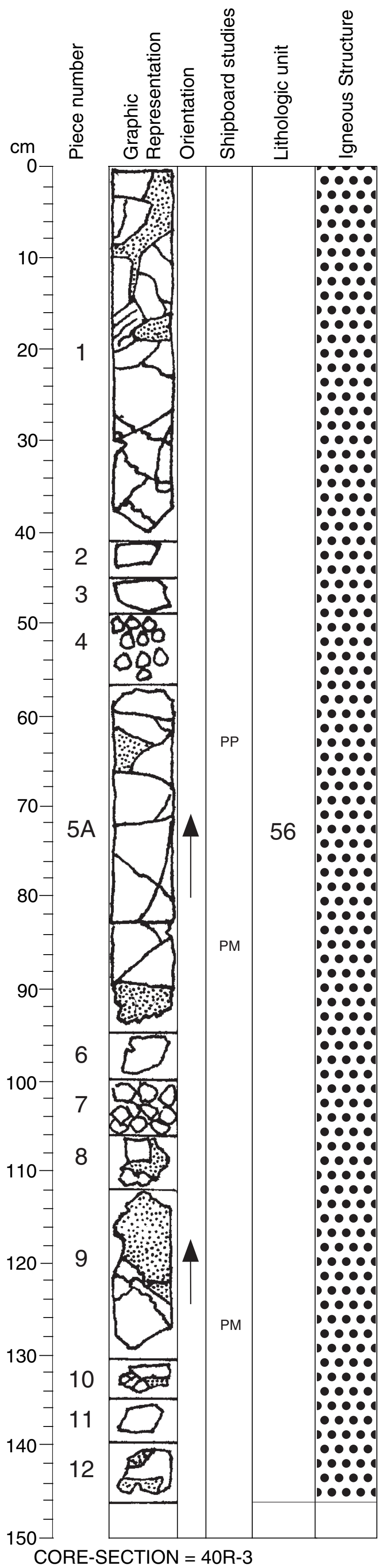
STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray, with some dark halo.

VEINS/FRACTURES: None observed.

Core Photo

185-801C-40R-3 **Section top: 844.4 (mbsf)**



UNIT 56: SPARSELY OLIVINE PHYRIC BASALT BRECCIA

Pieces: 1A-12

CONTACTS: None observed.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Olivine	1	1.0	0.1	0.2	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray to dark gray.

VESICLES: None observed.

STRUCTURE: Breccia.

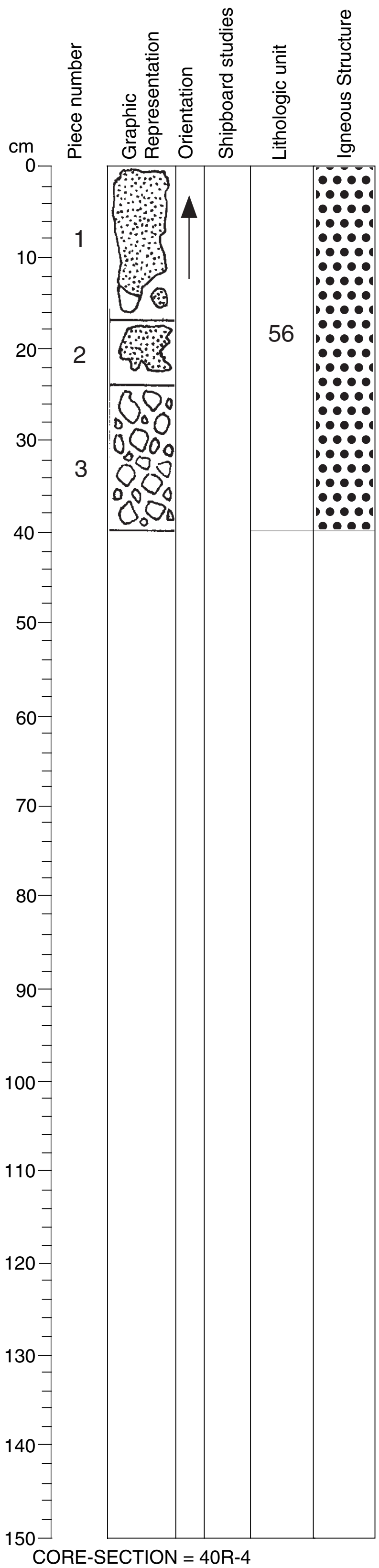
ALTERATION: Slightly altered dark gray, with some dark halo.

VEINS/FRACTURES: 2 observed, subhorizontal to vertical, 0.2 mm, filled with carbonate.

COMMENTS: Dark cement in pieces 1 and 12.

Core Photo

185-801C-40R-4 **Section top: 845.87 (mbsf)**



UNIT 56: SPARSELY OLIVINE PHYRIC BASALT BRECCIA

Pieces: 1A-3

CONTACTS: None observed.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Olivine	2	0.2	0.1	0.2	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Dark gray to very dark gray.

VESICLES: 1%; 0.2 mm in size; filled with saponite.

STRUCTURE: Breccia.

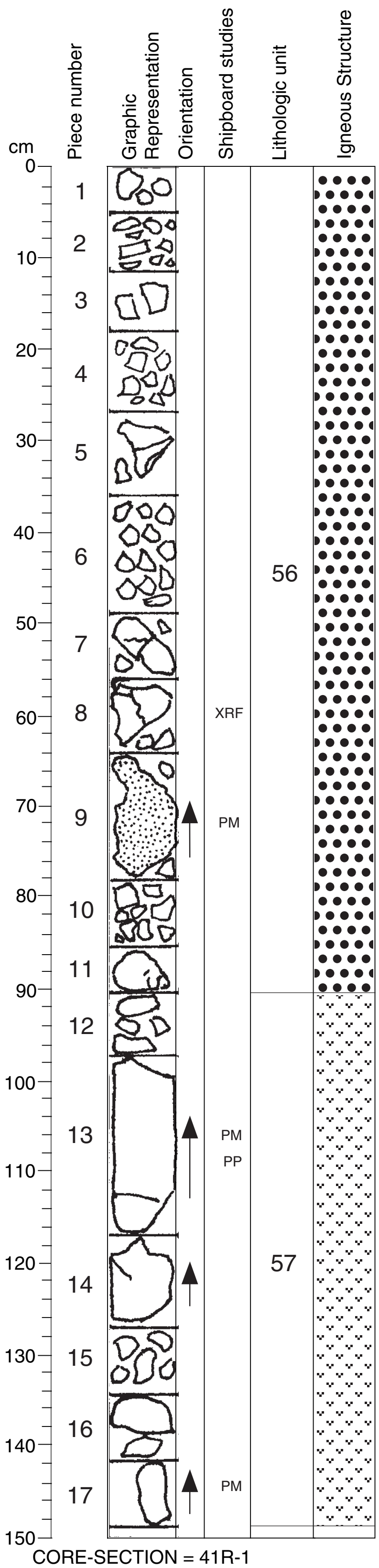
ALTERATION: Slightly altered dark gray, with some dark halo.

VEINS/FRACTURES: None observed.

COMMENTS: Dark cement.

Core Photo

185-801C-41R-1 **Section top: 850.8 (mbsf)**



UNIT 56: SPARSELY OLIVINE PHYRIC BASALT BRECCIA

Pieces: 1-11

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	2	1.0	0.1	0.2	euhedral-subhedral

GROUNDMASS: Fine grained.

COLOR: Gray to dark gray.

VESICLES: <1%; 0.2 mm in size; filled with saponite.

STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray, with some dark halo.

VEINS/FRACTURES: 22 veins, subhorizontal to vertical orientation, 0.1-0.6 mm width, filled with saponite +/- carbonate +/- Fe-oxyhyroxide.

COMMENTS: Mainly dark cement.

UNIT 57: SPARSELY OLIVINE PHYRIC BASALT

Pieces: 12-17

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	1	0.3	0.1	0.2	subhedral

GROUNDMASS: Fine grained.

COLOR: Gray.

VESICLES: <1%; 0.2 mm in size; filled with sapontite.

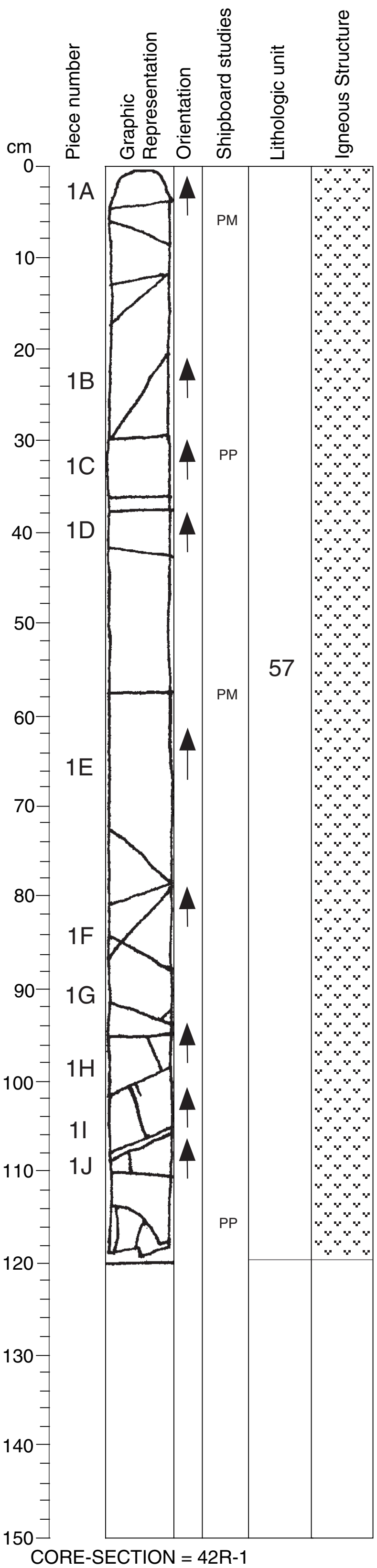
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 7 veins, subhorizontal to vertical orientations, 0.1-0.4 mm width, filled with saponite and/or carbonate.

Core Photo

185-801C-42R-1 **Section top: 860.0 (mbsf)**



UNIT 57: APHYRIC BASALT

Pieces: 1A-1J

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	1.0	0.5	0.5	euhedral-subhedral

GROUNDMASS: Fine grained.

COLOR: Gray.

VESICLES: <1-5%; 0.2-2 mm in size; filled with calcite and saponite.

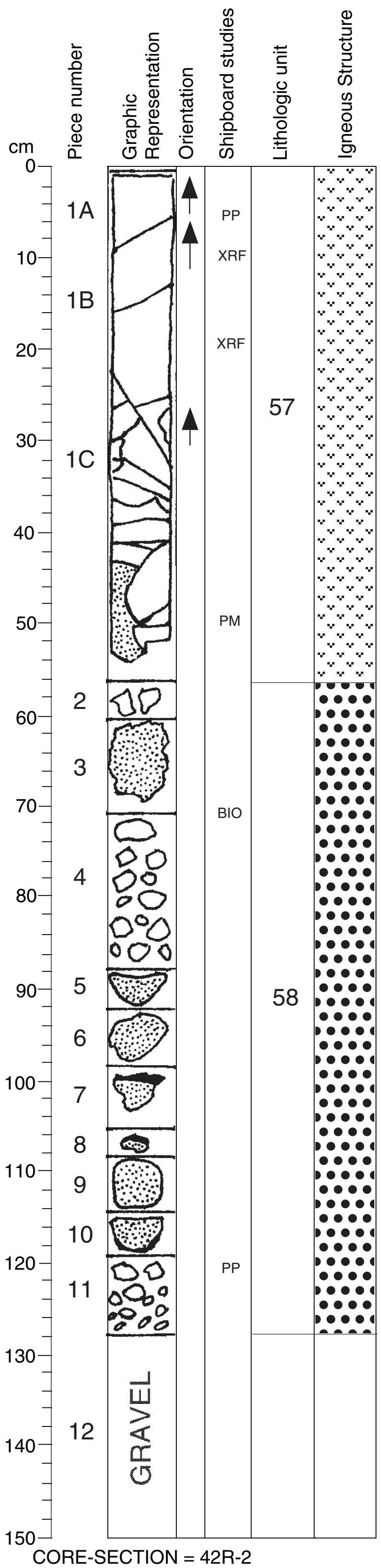
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with some brown and green vein halos. Miarolitic texture shows a dark halo.

VEINS/FRACTURES: 36 veins, randomly oriented, 0.1-4 mm width, filled with carbonate and/or saponite.

Core Photo

185-801C-42R-2 **Section top: 861.2 (mbsf)**



UNIT 57: APHYRIC BASALT

Pieces: 1A-1C

CONTACTS: None observed.

PHENOCRYSTS:	**%** **Mode**	**Grain Size (mm):** **Max**	 **Min**	 **Avg.**	 **Shape/Habit**
Plagioclase	<1	0.8	0.8	0.8	euhedral
Olivine	1-2	0.1	1.0	0.2	euhedral-subhedral

GROUNDMASS: Fine grained to microcrystalline.

COLOR: Gray.

VESICLES: <1%; 0.2 mm in size; filled with saponite.

STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with a green and brown vein halo .

VEINS/FRACTURES: 15 veins, subhorizontal to vertical orientation, 0.1-1.2 mm width, saponite and/or carbonate, +/- Fe-oxyhydroxide +/- pyrite. Many veins associated with brown halos extending 2-6 mm.

UNIT 58: HYALOCLASTITE WITH APHYRIC TO SPARSELY OLIVINE PHYRIC PILLOW BASALT

Pieces: 2-12

CONTACTS: Chilled pillow margins in pieces 3, 4, 5, 6, and 9.

PHENOCRYSTS:	**%** **Mode**	**Grain Size (mm):** **Max**	 **Min**	 **Avg.**	 **Shape/Habit**
Plagioclase	<<1	0.8	0.8	0.8	euhedral
Olivine	1.5	1.0	0.1	0.2	euhedral-subhedral

GROUNDMASS: Glassy to microcrystalline.

COLOR: Dark gray fragments in greenish black cement.

VESICLES: None observed.

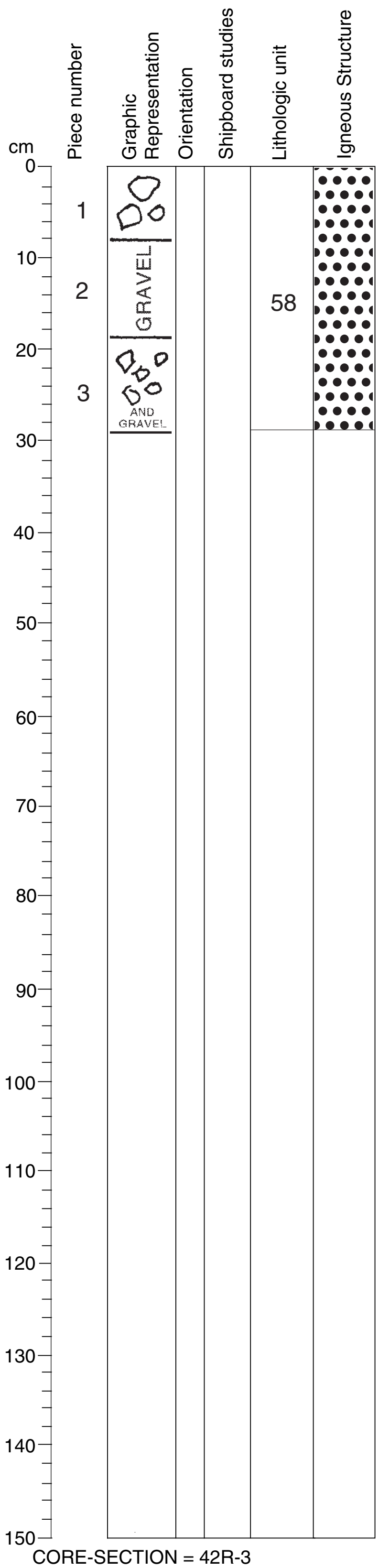
STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: None observed.

Core Photo

185-801C-42R-3 **Section top: 862.69 (mbsf)**



UNIT 58: HYALOCLASTITE WITH APHYRIC TO SPARSELY OLIVINE PHYRIC PILLOW BASALT

Pieces: 1-3

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Microcrystalline.

COLOR: Gray.

VESICLES: None observed.

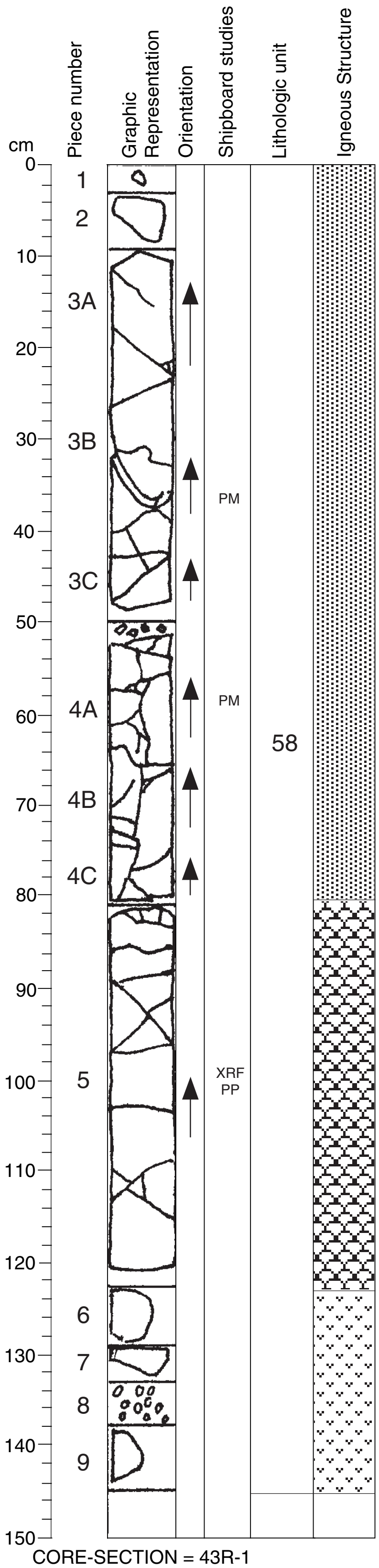
STRUCTURE: Breccia.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 6 veins observed, randomly oriented, 0.1-2 mm, filled with saponite +/- carbonate.

Core Photo

185-801C-43R-1 **Section top:869.1 (mbsf)**



UNIT 58: APHYRIC TO SPARSELY OLIVINE PHYRIC PILLOW BASALT

Pieces: 1-9

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	0.8	euhedral
Olivine	1-2	2.0	0.5	1.0	euhedral

GROUNDMASS: Fine grained to microcrystalline.

COLOR: Gray to dark gray.

VESICLES: None observed.

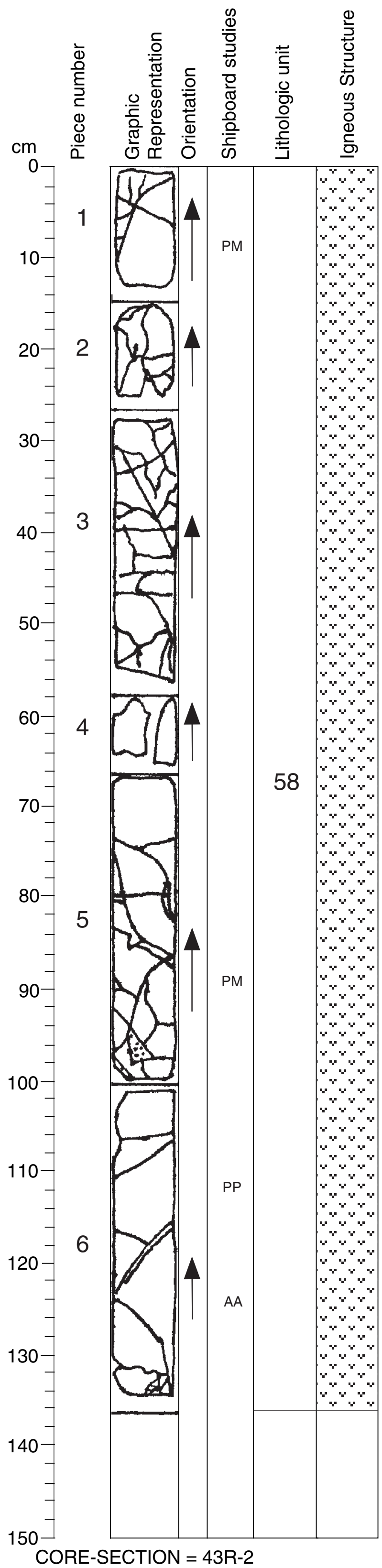
STRUCTURE: Pillows or flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 39 veins, subhorizontal to vertical orientation, 0.1-1.2 mm width, filled with saponite and/or carboante; most veins contain a significant proportion of Fe-oxyhydroxide. 4 veins contain a minor amount of celadonite. Many veins associated with green and brown halo (extending up to 7 mm).

Core Photo

185-801C-43R-2 **Section top: 870.56 (mbsf)**



UNIT 58: SPARSELY OLIVINE PHYRIC PILLOW BASALT

Pieces: 1-6

CONTACTS: None observed.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Plagioclase	<1	4.0	1.0	1.0	euhedral
Olivine	1	2.0	0.5	0.6	euhedral

GROUNDMASS: Fine grained.

COLOR: Gray basalt with blue green celadonite and brownish halos.

VESICLES: 1%, 0.2-0.8 mm in size; filled with calcite and saponite.

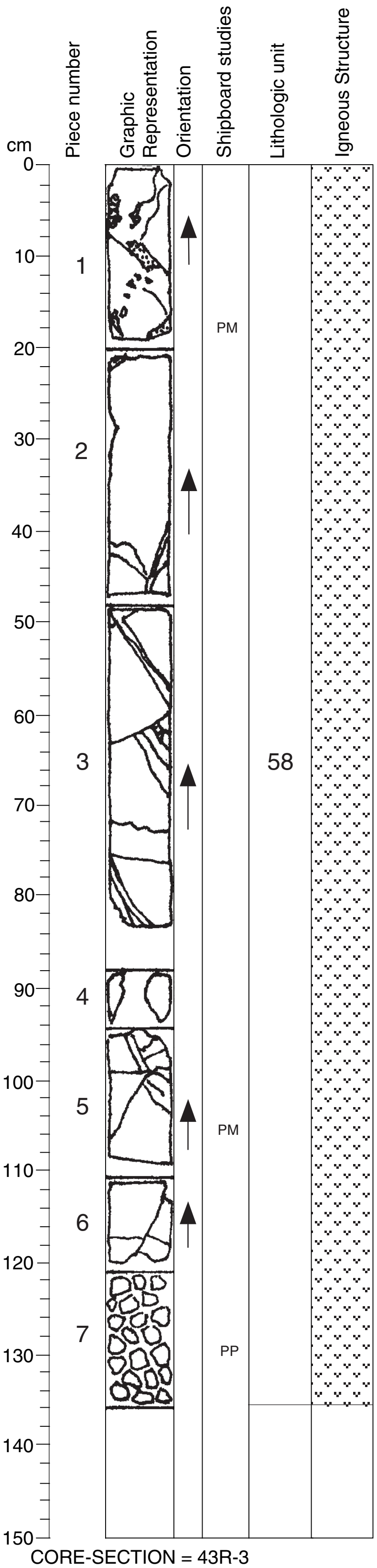
STRUCTURE: Fractured flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 59 veins, randomly oriented, 0.1-4 mm width, filled with saponite and/or celadonite, +/- carbonate +/- Fe-oxyhydroxide; saponite dominates veins in the 0-37 cm interval; 37 cm to base of section, celadonite is dominant vein filling mineral; dark halos asscociated with many veins, extending up to 7 mm.

Core Photo

185-801C-43R-3 **Section top: 871.93 (mbsf)**



UNIT 58: APHYRIC TO SPARSELY OLIVINE PHYRIC PILLOW BASALT

Pieces: 1-7

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1.0	0.5	0.5	euhedral
Olivine	<1	0.8	0.3	0.5	euhedral

GROUNDMASS: Fine grained.

COLOR: Gray basalt with blue green celadonite and brownish halos.

VESICLES: <1%; 0.2-0.5 mm in size; filled with saponite.

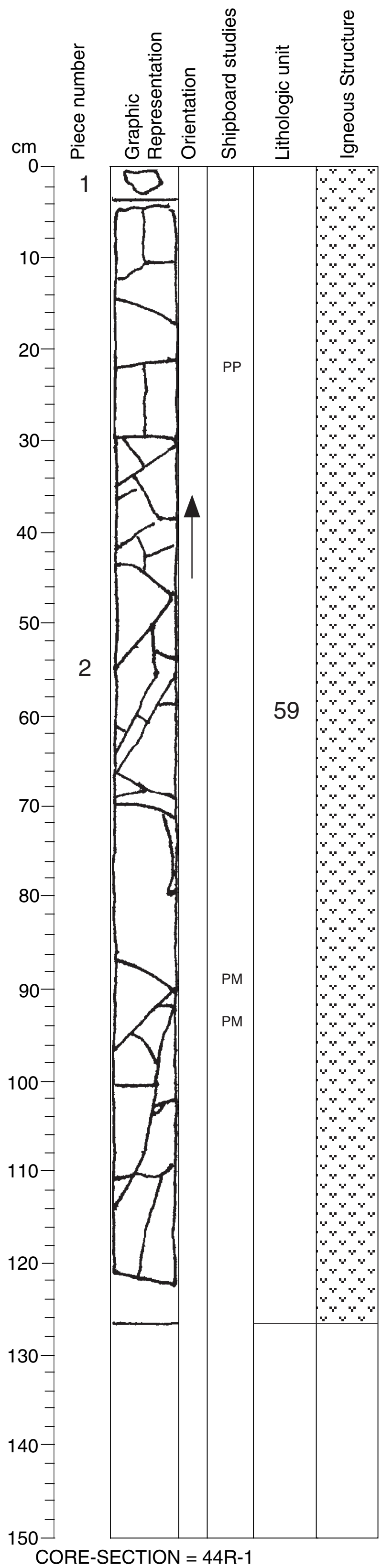
STRUCTURE: Flow.

ALTERATION: Slightly altered dark gray, with well developed brown and green vein halos. Some dark halos are also present.

VEINS/FRACTURES: 34 veins, randomly oriented, 0.1-7.5 mm width, filled with saponite and Fe-oxhydroxide +/- celadonite +/-carbonate.

Core Photo

185-801C-44R-1 **Section top: 878.8 (mbsf)**



UNIT 59: APHYRIC BASALT

Pieces: 1-2

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<1	0.8	0.3	0.5	euhedral-subhedral

GROUNDMASS: Fine grained.

COLOR: Gray.

VESICLES: 1% abundance; 0.3-1.5 mm in size; filled with smectite, carbonate and sulfide.

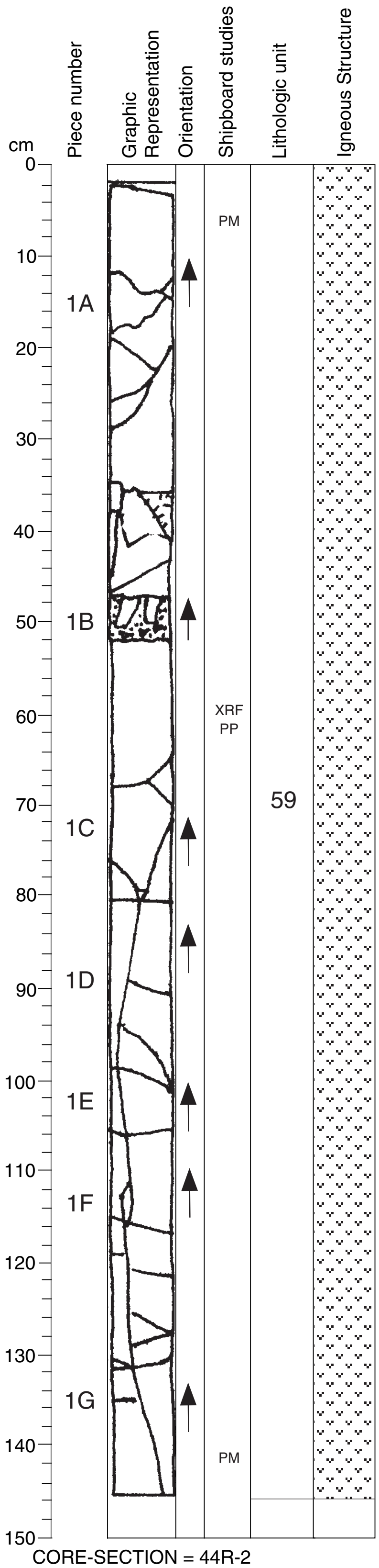
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray, with some dark halo and further brown alteration surrounding veins.

VEINS/FRACTURES: 37 veins, randomly oriented, 0.1-3 mm width, saponite +/- carbonate, +/- Fe-oxyhydroxide. Most veins associated with brown halos that may extend up to 5 mm away from vein.

Core Photo

185-801C-44R-2 **Section top: 880.06 (mbsf)**



UNIT 59: APHYRIC BASALT

Pieces: 1A-1G

CONTACTS: None observed.

PHENOCRYSTS: None observed.

GROUNDMASS: Fine grained.

COLOR: Gray to dark gray.

VESICLES: None observed.

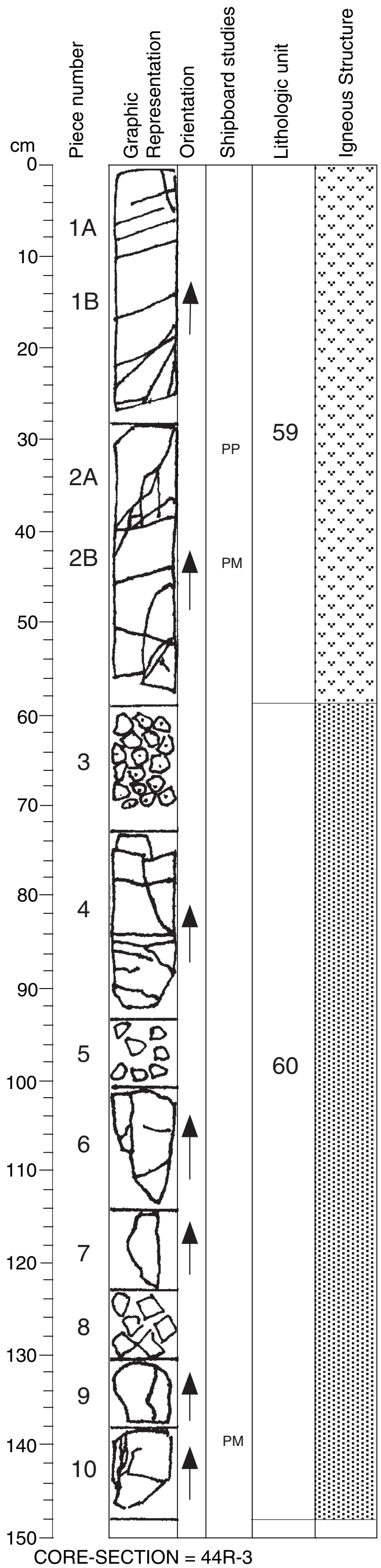
STRUCTURE: Massive flow.

ALTERATION: Slightly altered dark gray, with dark halo development and further brown alteration (extending up to 6mm) surrounding veins.

VEINS/FRACTURES: 37 veins, randomly oriented, 0.1-4 mm width, filled with caronate and/or saponite +/- Fe-oxyhydroxide.

Core Photo

185-801C-44R-3 **Section top: 881.56 (mbsf)**



UNIT 59: APHYRIC BASALT

Pieces: 1A-2

CONTACTS: None observed.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Olivine	<1	0.5	0.2	0.5	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Dark gray.

VESICLES: <1% abundance; 0.2 mm in size; filled with carbonate.

STRUCTURE: Pillow or flow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 21 veins, randomly oriented, 0.1-2.5 mm width, filled with carbonate and/or saponite +/- Fe-oxyhydroxide. Associated dark halos prevale (extending up to 7 mm).

UNIT 60: SPARSELY OLIVINE PHYRIC BASALT

Pieces: 3-10

CONTACTS: None observed.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Olivine	1	1	0.5	1	subhedral

GROUNDMASS: Microcrystalline.

COLOR: Dark gray.

VESICLES: <<1% abundance; 0.3-0.5 mm in size; filled with smectite.

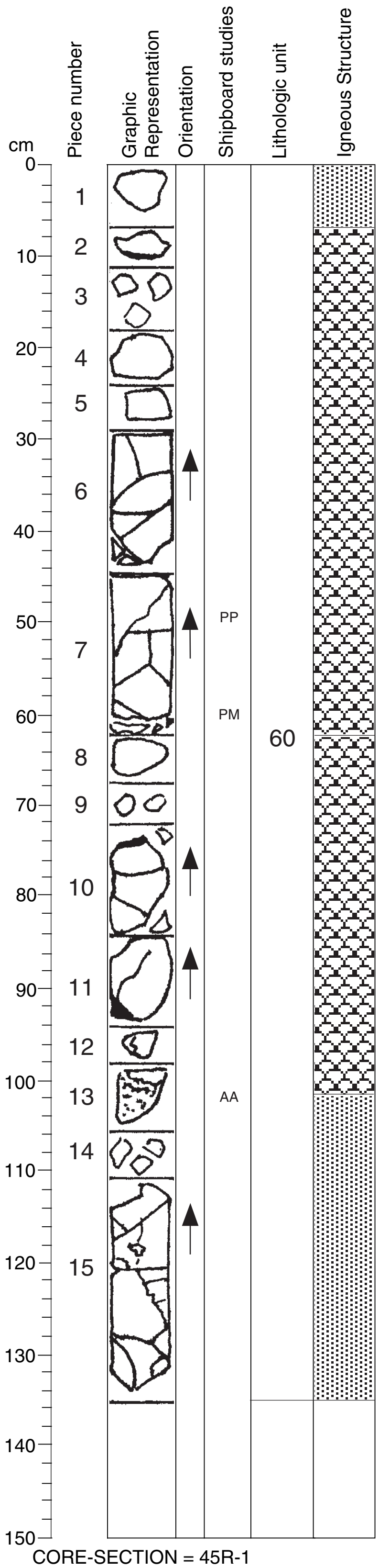
STRUCTURE: Pillow or flow.

ALTERATION: Slightly altered dark gray. Dark halos (extending up to 7 mm) surrounding veins.

VEINS/FRACTURES: 23 veins, randomly oriented, 0.1-2 mm width, filled with saponite and/or celadonite, +/- Fe-oxyhydroxide.

Core Photo

185-801C-45R-1 **Section top: 888.4 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-15

CONTACTS: Chilled margins in pieces 2, 8, 9 and 11.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	1.0	0.5	0.8	euhedral
Olivine	<1	1.2	0.2	0.6	euhedral

GROUNDMASS: Microcrystalline.

COLOR: Dark gray basalt with dark greenish gray hyaloclastites.

VESICLES: 0-3%; 0.1 mm in size; filled with celadonite.

STRUCTURE: Pillows.

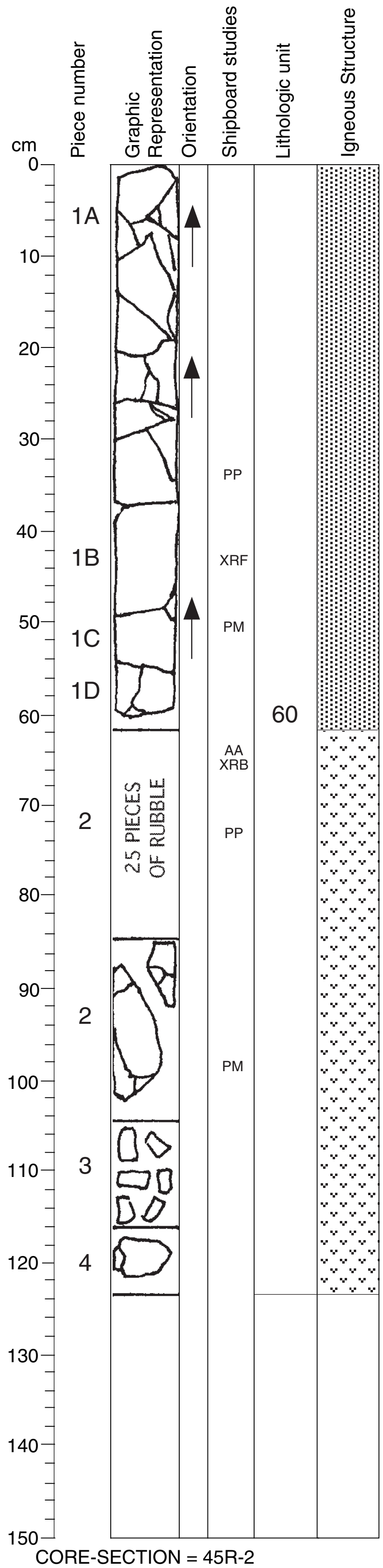
ALTERATION: Slightly altered dark gray. Well developed green and brown vein halos in piece 7. Hyaloclastites comprised of up to 85% altered glass (piece 11, and 13).

VEINS/FRACTURES: 28 veins, randomly oriented, 0.1-2.5 mm width, filled with saponite +/- Fe-oxy-hydroxide +/- celadonite +/-carbonate.

COMMENTS: Hyaloclastite in pieces 11 and 13.

Core Photo

185-801C-45R-2 **Section top: 889.75 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1A-5

CONTACTS: Glassy contact in piece 2.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	1.5	1.0	1.0	euhedral
Olivine	<1	0.4	1.0	0.8	euhedral

GROUNDMASS: Microcrystalline to fine grained.

COLOR: Gray.

VESICLES: 0-1%; 0.5 mm in size; filled with saponite.

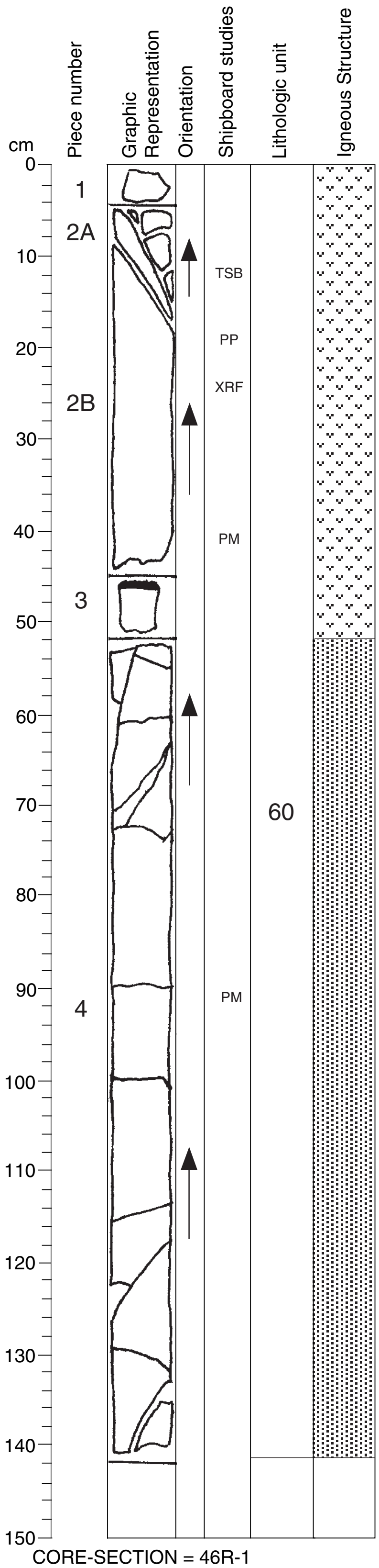
STRUCTURE: Pillows or flow.

ALTERATION: Slightly altered dark gray, with dark vein halos.

VEINS/FRACTURES: 35 veins, randomly oriented, 0.1-1.5 mm wide, filled with saponite +/- carbonate +/- Fe-oxyhydroxide +/-celadonite. The occurence of celadonite in this section is confined to the 87-96 cm interval.

Core Photo

185-801C-46R-1 **Section top: 898.0 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-4

CONTACTS: Chilled margin in piece 3.

PHENOCRYSTS:	**% Mode**	**Grain Size (mm): Max**	**Min**	**Avg.**	**Shape/Habit**
Olivine	<<1	2.0	0.5	1.0	euhedral

GROUNDMASS: Fine grained to microcrystalline.

COLOR: Gray.

VESICLES: None observed.

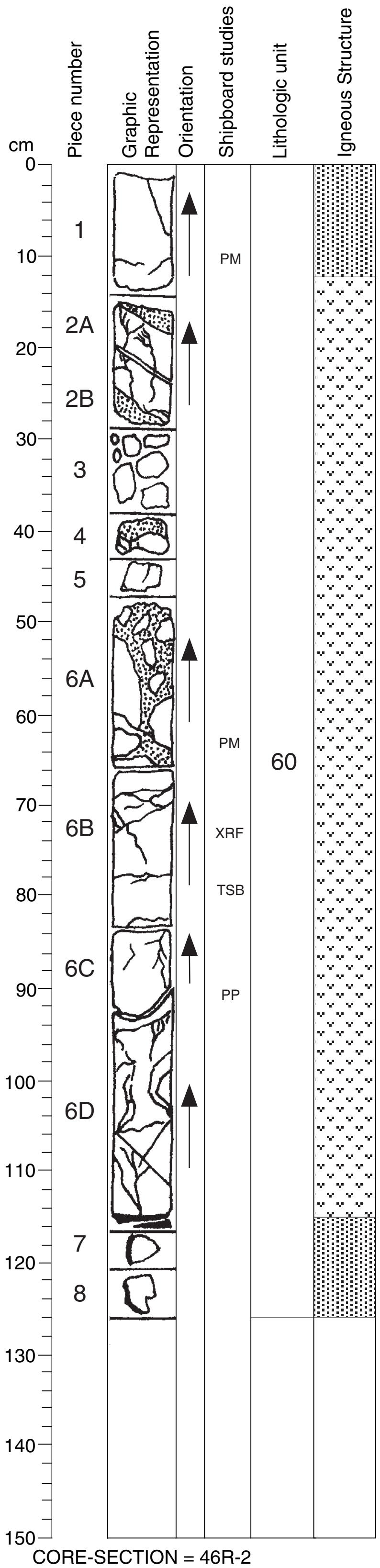
STRUCTURE: Pillows or flow.

ALTERATION: Slightly altered dark gray, with piece 1 dominated by dark halo.

VEINS/FRACTURES: 22 veins, subhorizontal to subvertical, 0.1-2 mm width, filled with saponite +/- carbonate +/- Fe-oxyhydroxide +/- pyrite. One celadonite vein observed in this 8-15 cm interval.

Core Photo

185-801C-46R-2 **Section top: 899.42 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-8

CONTACTS: Chilled margin in piece 2D and 3.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Olivine	<1	2.0	0.5	1.0	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Dark greenish gray to dark gray.

VESICLES: None observed.

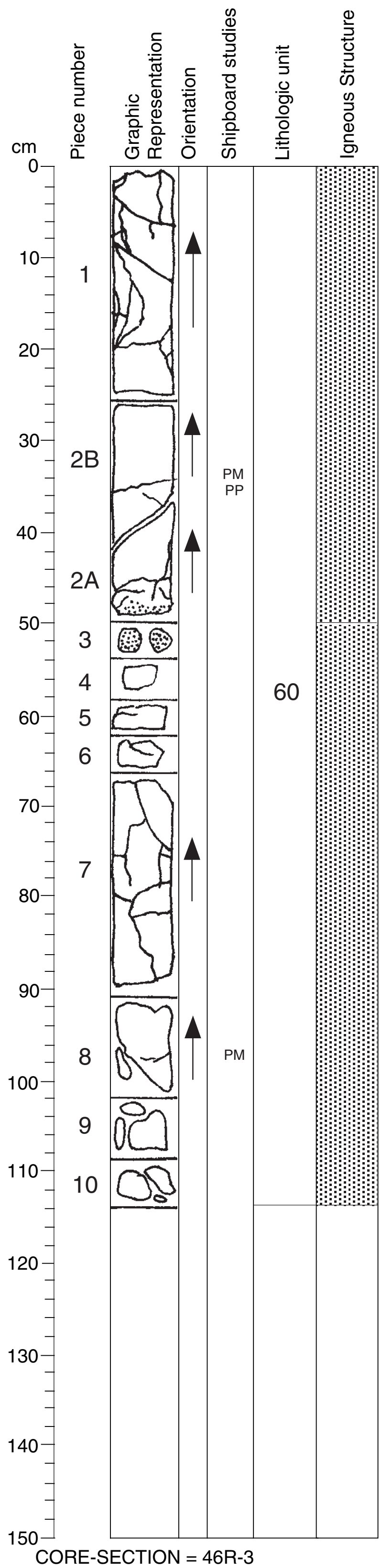
STRUCTURE: Breccia, pillows or flows.

ALTERATION: Slightly altered dark gray. Brown and dark halos (extending up to 6 mm) surrounding many veins.

VEINS/FRACTURES: 31 veins, randomly oriented, 0.1-3 mm wide, filled with saponite +/- carbonate +/- Fe-oxyhydroxide +/- very minor celadonite.

Core Photo

185-801C-46R-3 **Section top: 900.68 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-10

CONTACTS: None observed.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Plagioclase	<<1	1.5	1.5	1.5	euhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray.

VESICLES: None observed.

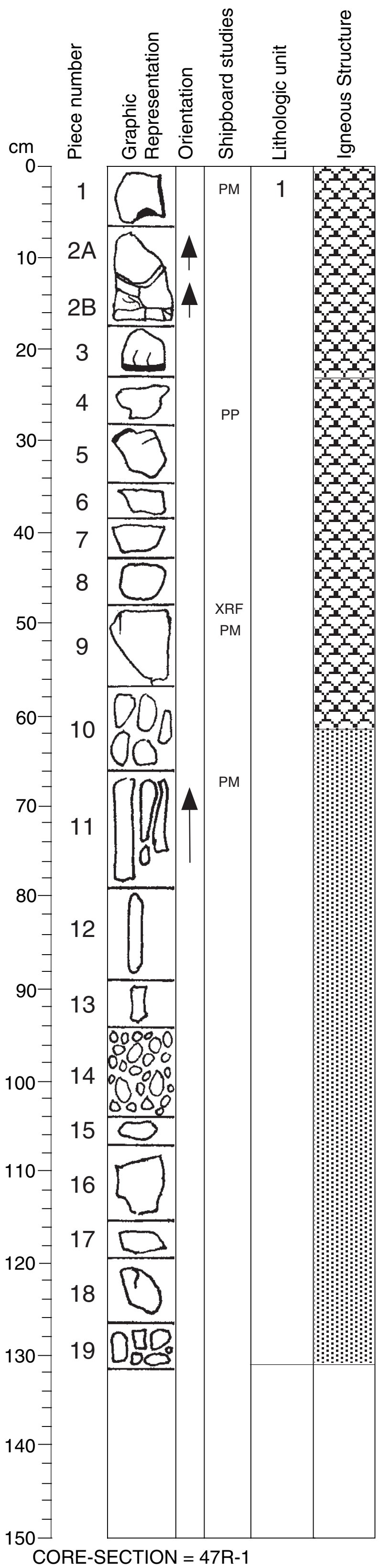
STRUCTURE: Pillows or flow.

ALTERATION: Slightly altered dark gray. Brown halos (extending up to 6mm) surrounding many veins.

VEINS/FRACTURES: 26 veins, randomly oriented, 0.1-2.5 mm width, filled with saponite +/- carbonate +/- Fe-oxyhydroxide. A subhorizontal vein containing a significant proportion of celadonite occurs in the 35-36 cm interval.

Core Photo

185-801C-47R-1 **Section top: 907.7 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-19

CONTACTS: Chilled margin in piece 3.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1	0.3	0.8	euhedral
Olivine	<1	2	0.3	0.8	euhedral-subhedral

GROUNDMASS: Microcrystalline to fine grained.

COLOR: Gray.

VESICLES: <1% abundance; 0.1-0.3 mm in size; filled with sulfides and saponite.

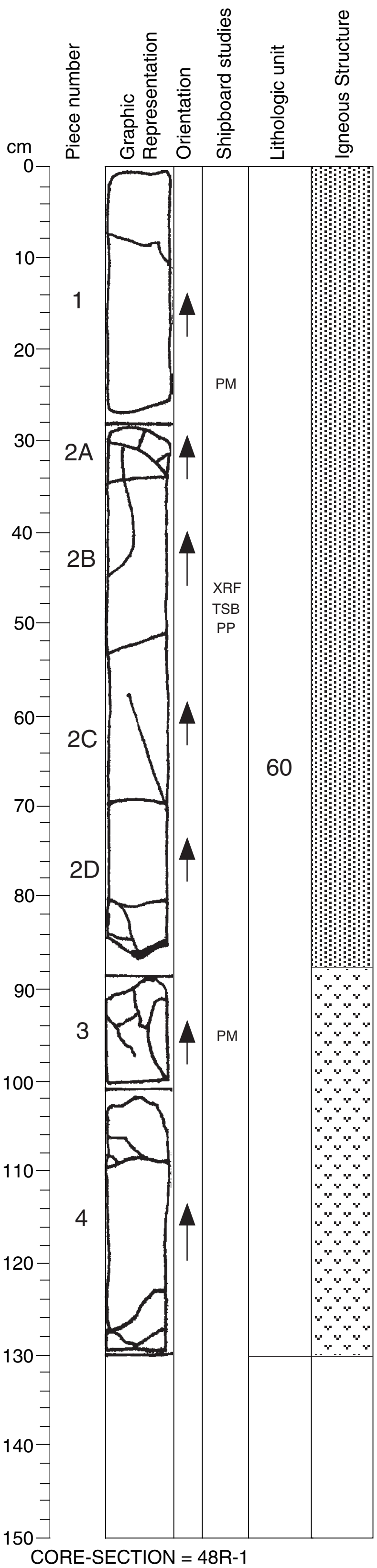
STRUCTURE: Pillows/flows.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 15 veins, randomly oriented, 0.1-5 mm width, filled with saponite and/or pyrite. One vein contains a significant proportion of carbonate (in the 6-18 cm interval).

Core Photo

185-801C-48R-1 **Section top: 916.7 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-4

CONTACTS: Chilled margin in piece 2.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1	0.5	0.5	euhedral
Olivine	<1	2	0.5	1	euhedral-subhedral

GROUNDMASS: Fine grained to glassy.

COLOR: Gray.

VESICLES: None observed.

STRUCTURE: Pillow/flow.

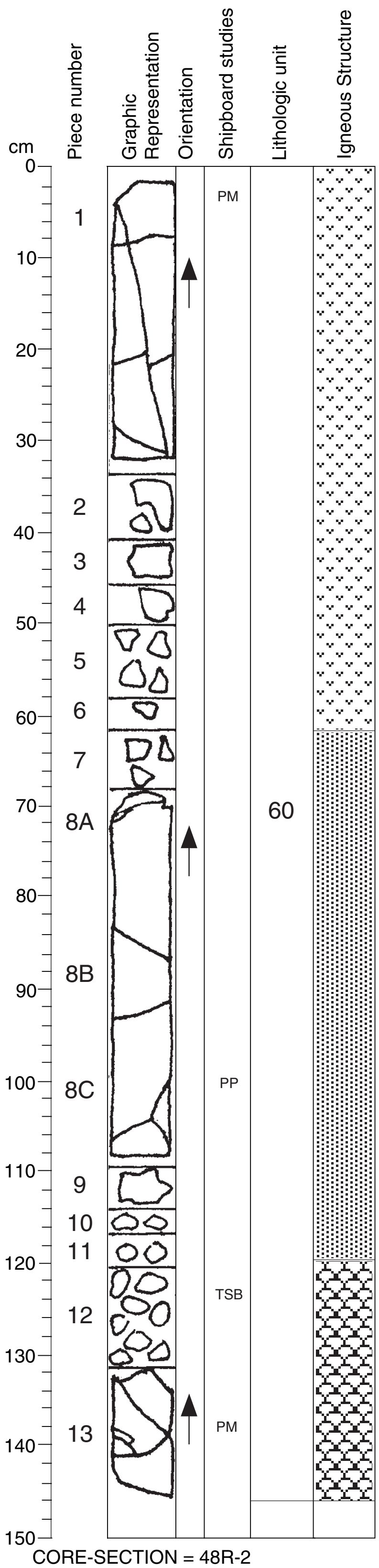
ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 22 veins, randomly oriented, 0.1-0.4 mm width, filled with saponite +/- pyrite +/- carbonate (between the interval of 97-127 cm).

COMMENTS: Olivine ranges from 1% to<1% from top to bottom of section.

Core Photo

185-801C-48R-2 **Section top: 918.0 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-13

CONTACTS: Chilled margin in piece 6, glassy margin in piece 11.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	1	0.3	0.5	euhedral
Olivine	<1	1.5	0.3	0.8	euhedral-subhedral

GROUNDMASS: Fine grained to microcrystalline.

COLOR: Gray.

VESICLES: None observed.

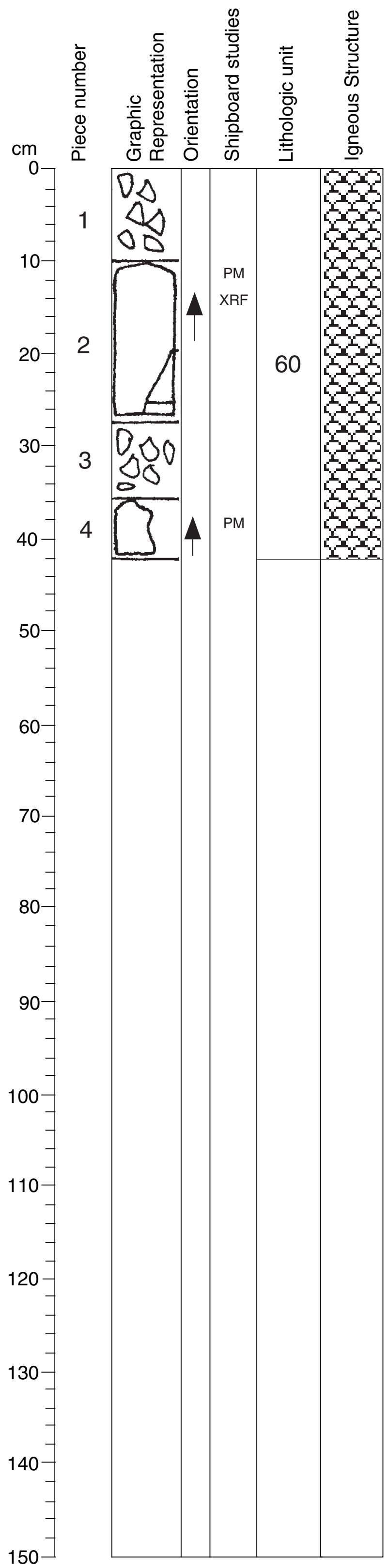
STRUCTURE: Pillow/flow.

ALTERATION: Slightly altered dark gray, with miarolitic voids filled with smectite in piece 1.

VEINS/FRACTURES: 29 veins, randomly oriented, 0.1-0.4 mm, filled with saponite and/or pyrite.

Core Photo

185-801C-48R-3 **Section top: 919.49 (mbsf)**



CORE-SECTION = 48R-3

UNIT 60: APHYRIC BASALT

Pieces: 1-4

CONTACTS: Chilled margin in piece 1.

PHENOCRYSTS:

	%	Grain Size (mm):			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<<1	0.5	0.3	0.5	euhedral
Olivine	<1	1	0.5	0.6	euhedral-subhedral

GROUNDMASS: Microcrystalline to fine grained.

COLOR: Gray.

VESICLES: None observed.

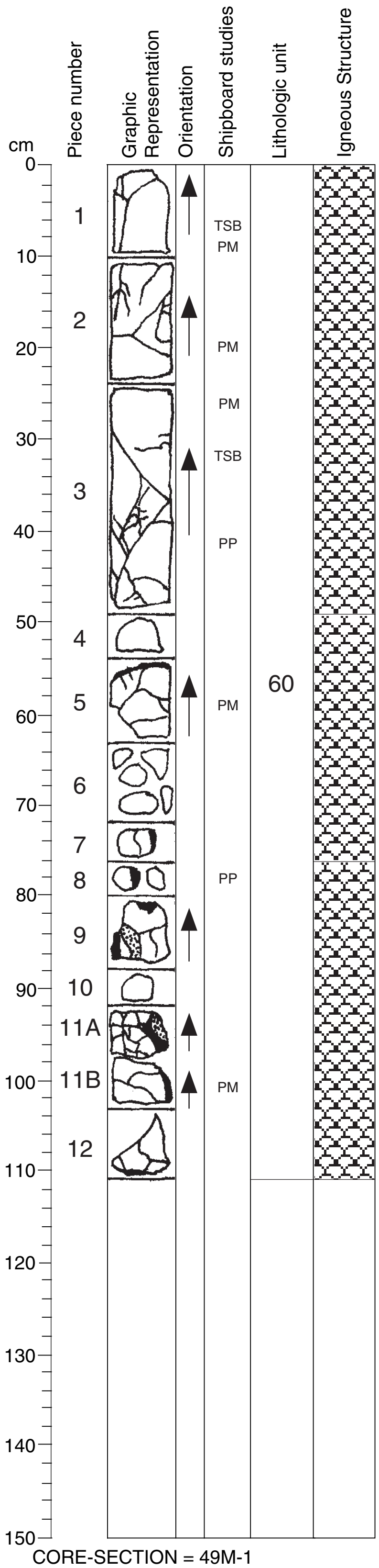
STRUCTURE: Pillow.

ALTERATION: Slightly altered dark gray.

VEINS/FRACTURES: 6 veins, randomly oriented, 0.1-0.4 mm, filed with saponite +/- pyrite.

Core Photo

185-801C-49M-1 **Section top: 928.3 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-12

CONTACTS: Chilled margins in pieces 7, 9 and 11.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1-1	1.0	0.2	0.4	euhedral laths
Olivine	<<1	0.3	0.2	0.2	euhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray to dark gray, black at chilled margins.

VESICLES: None observed.

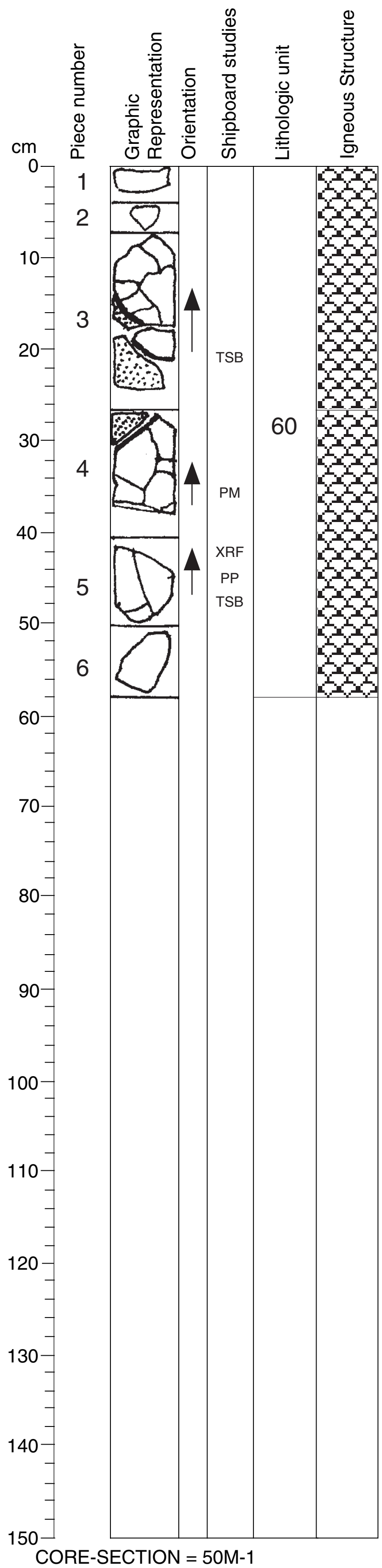
STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray with minor amounts of altered glass in pieces 7, 8, 9 & 11.

VEINS/FRACTURES: 42 veins, randomly oriented, 0.1-5 mm width, filled with saponite +/- carbonate +/- pyrite.

Core Photo

185-801C-50M-1 **Section top: 933.3 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1-5

CONTACTS: Glassy contacts (hyaloclastite) in piece 3 and 4; maybe chill at the end of piece 5.

PHENOCRYSTS:	% Mode	Grain Size (mm): Max	Min	Avg.	Shape/Habit
Plagioclase	<1	1.8	0.2	1.0	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

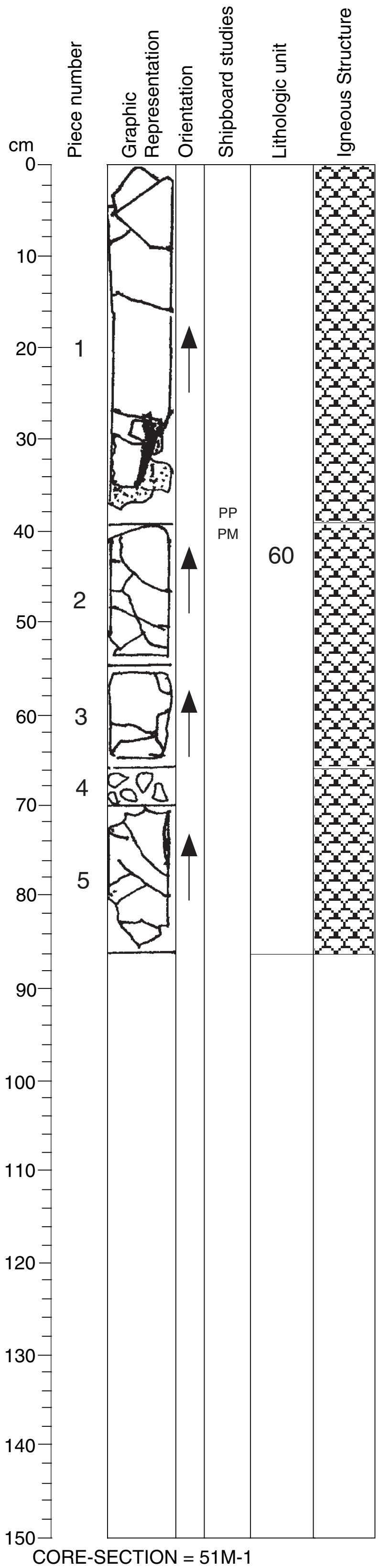
VESICLES: None observed.

STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray with minor amounts of altered glass in pieces 3 & 4.

VEINS/FRACTURES: 18 veins, randomly oriented, 0.1-1.8; veins are almost entirely saponite +/- carbonate +/- pyrite.

Core Photo



185-801C-51M-1 **Section top: 932.0 (mbsf)**

UNIT 60: APHYRIC BASALT

Pieces: 1-5

CONTACTS: Chilled margin (hyaloclastite) at the end of piece 1; glassy margin in piece 4.

PHENOCRYSTS:	%	Grain Size (mm):			
	Mode	Max	Min	Avg.	Shape/Habit
Plagioclase	<1	2.0	0.8	1.0	euhedral

GROUNDMASS: Microcrystalline to hypocrystalline.

COLOR: Gray to dark gray.

VESICLES: None observed.

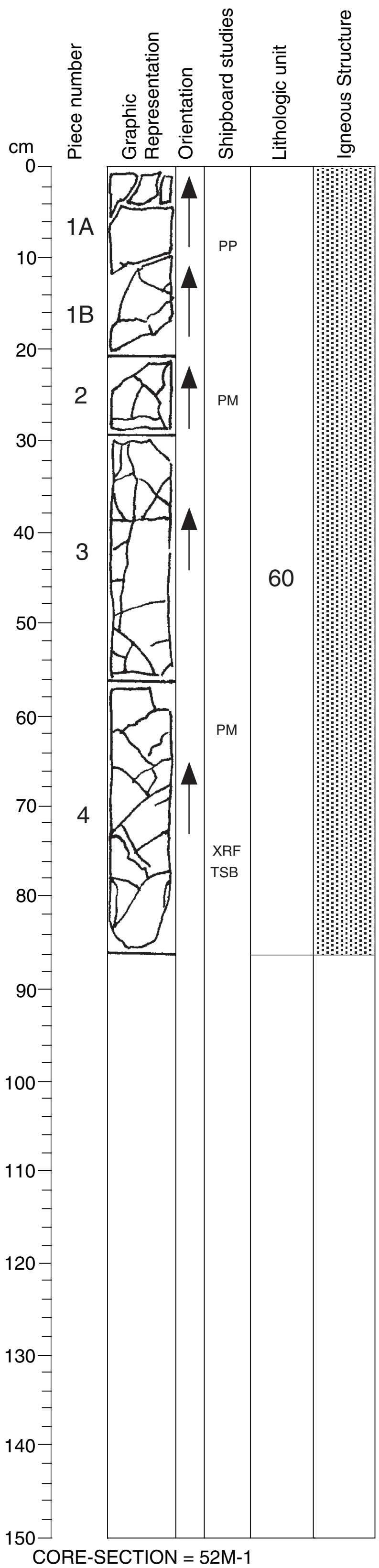
STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray with minor amounts of altered glass in pieces 1 & 4.

VEINS/FRACTURES: 31 veins, randomly oriented, 0.1-0.6 mm; veins are filled with saponite +/- pyrite.

Core Photo

185-801C-52M-1 **Section top: 932.8 (mbsf)**



UNIT 60: APHYRIC BASALT

Pieces: 1A-4

CONTACTS: None observed.

PHENOCRYSTS:	**%**	**Grain Size (mm):**			
	Mode	**Max**	**Min**	**Avg.**	**Shape/Habit**
Plagioclase	<1	0.5	0.2	0.5	euhedral

GROUNDMASS: Microcrystalline.

COLOR: Gray to dark gray.

VESICLES: None observed.

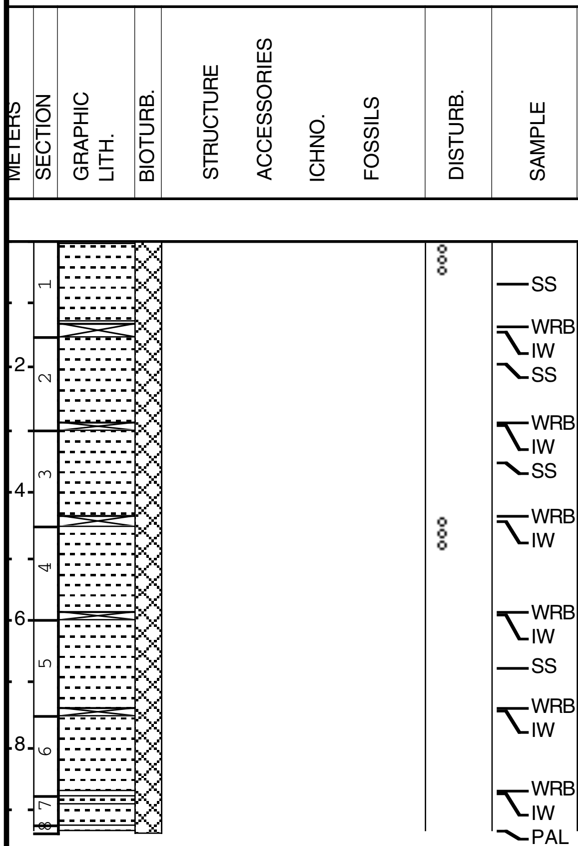
STRUCTURE: Pillows.

ALTERATION: Slightly altered dark gray with minor amounts of altered glass in piece 7.

VEINS/FRACTURES: 29 veins, randomly oriented, 0.1-0.5 mm, filled with saponite +/- pyrite; some associated with 2 mm dark halos.

Core Photo

801D-1W 0-19.3 mbsf



DESCRIPTION

ZEOLITE-RICH CLAY

Entire core is homogeneous ZEOLITE-RICH CLAY. No discernible sedimentary or biogenic structures. Color changes gradationally from 5YR 3/2 to 5R 2.5/2 (both dark reddish brown) downcore from Section 5. Scraped surface in Section 3, 20-70 cm displays common pits with c. 1 mm diameter, but smear slides did not reveal compositional differences to over- and underlying sections. Bottom part of Section 7 shows lighter-colored patches that may be bioturbation. Top of Section 1 and short interval in Section 4 are soupy, but rest of sediment is stiff and resists to gentle pressure. It is not clear whether the lack of structures in this core is related to drilling disturbance, bioturbation, or whether it is original.

129-801B 41R-2 74-79			#1			Unit: 9	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**Basalt**							
WHERE SAMPLED:	**Flow interior**							
GRAIN SIZE:	**medium grained**							
TEXTURE:	**seriate**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Plagioclase	47	50	0.4	2.8			euhedral laths	
Pyroxene	30	45	0.2	6			euhedral	
Oxides	3	0?						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
Ilmenite		0.2	1.6	0.6		
Calcite	15				filling vesicles and open spaces, replacing plagioclase	
smectite	25				replacing plagioclase, pyroxene, filling pore space	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
Cavities			0.2	0.8		Calcite, smectite	

COMMENTS : Grey rock containing 40% secondary minerals.

129-801C 4R-1 97-99				#2		Unit: 8	OBSERVER:	Igneous and alteration teams
ROCK NAME:	quartzite							
WHERE SAMPLED:	hydrothermal zone							
GRAIN SIZE:	medium-fine grained							
TEXTURE:	holocrystalline							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Quartz	90		<0.05	1.8			subhedral	seriate texture
Fe oxide	10							not crystalline

SECONDARY MINERALOGY	PERCENT		SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.		REPLACING / FILLING	COMMENTS
Calcite							filling pores, veins	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.		FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Recrystallized and silicified hydrothermal Fe oxide + silica deposit.

129-801C 5R-1 95-98			#3			Unit: 9	OBSERVER:	Igneous and alteration teams

ROCK NAME: Highly plagioclase megaphyric basalt
WHERE SAMPLED: Flow interior with vein
GRAIN SIZE: microcrystalline
TEXTURE: holocrystalline

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	3	5	0.6	2.4	1.6		euhedral, no laths	
GROUNDMASS								
Plagioclase	20	50	0.2	0.6	0.4		euhedral laths	
Pyroxene	0	40			0.05		anhedral	
Olivine	0	5	0.1	0.3	0.2		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
Calcite	25				filling veins and open spaces	
Cealdonite	25					
Smectite	30					

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicles/pores						filled with smectite, celadonite, glauconite and calcite	

COMMENTS : Intensely altered green rock, containing 90% secondary phases, including calcite, smectite, celadonite and glauconite. Magnetite is completely altered to titanite. 3 mm calcite + smectite vein cuts sample, and small celadonite + smectite veins are also present.

129-801C 6R-3 42-45		#4	Unit: 20	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**Aphyric basalt with sparsely plagioclase phyric patches**				
WHERE SAMPLED:	**close to flow or pillow top**				
GRAIN SIZE:	**fine grained**				
TEXTURE:	**holocrystalline**				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Olivine	0	4	0.4	1.5	0.6		euhedral	
GROUNDMASS								
Plagioclase	25	55	0.1	0.8	0.3		euhedral laths	
Pyroxene	15	36			0.2		subhedral	
Olivine	0	5			0.05		anhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
Calcite	30	<0.02	2		filling veins and pores, replacing plagioclase	
smectite	30				replacing olivine, pyroxene	
titanite	1				replacing magnetite	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Buff colored highly altered rock: 60% secondary phases.

129-801C 9R-3 41-43				#5		Unit: 25	OBSERVER:	Igneous and alteration teams
ROCK NAME:	Aphyric Basalt							
WHERE SAMPLED:	Flow interior							
GRAIN SIZE:	fine grained							
TEXTURE:	holocrystalline							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Plagioclase	40	40	0.25	1	0.5		euhedral laths	
Pyroxene	55	57	0.025	0.3	0.1		subhedral	
Olivine	0	3	0.1	0.6	0.3		anhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	3				replacing olivine and filling pore spaces	
calcite	2				replacing olivine and filling pore spaces	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
Vesicular			0.3	1.2		saponite? and-or calcite/ round	

COMMENTS : Dark grey rock containing 5% secondary phases.

129-801C 10R-2 72-77			#6			Unit: 25	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**Aphyric basalt**							
WHERE SAMPLED:	**Flow interior**							
GRAIN SIZE:	**medium grained**							
TEXTURE:	**seriate**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Plagioclase	50	52	0.1	1.2	0.5		euhedral laths	
Pyroxene	38	40	0.015	0.5	0.2		subhedral	
Olivine	0	6	0.1	0.6	0.3		subhedral	
Oxides	2	2						

SECONDARY MINERALOGY	PERCENT		SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.		REPLACING / FILLING	COMMENTS
saponite	7						filling veins and vesicles, replacing olivine	
Sulphides	<<1				0.025			
Calcite	3			0.7			filling veins and vesicles, replacing olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.		FILLING / MORPHOLOGY	COMMENTS
vesicles/pores							smectite, calcite	

COMMENTS : Dark grey rock containing 10% secondary phases.

129-801C-12R-1 85-89 15				**#7**		**Unit: 31**	**OBSERVER:**	**AS, Alt**
ROCK NAME:	**Moderately olivine-plagioclase microphyric basalt**							
WHERE SAMPLED:	**pillow rim**							
GRAIN SIZE:	**cryptocrystalline**							
TEXTURE:	**hypocrystalline, porphyric-glomeroporphyric**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	20	20	0.05	0.4	0.15		euhedral	sometimes glomeroporphyric
Pyroxene	10	15		0.2	0.04		subhedral	
Olivine	0	5					euhedral	
GROUNDMASS								
Glas	60	60						quenched textures

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	5				fillg pores, replacing olivine	cryptocrystalline
celadonite/nontronite	5				fillg pores, replacing olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey pillow rim with glass, containing 10% secondary minerals.

185-801C 15R-1 7-8, 1B			#8			Unit: 39	OBSERVER:	Alteration team
ROCK NAME:	aphyric basalt							
WHERE SAMPLED:	interpillow breccia							
GRAIN SIZE:								
TEXTURE:								

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Recrystallized (and hydrothermally altered?) interpillow sediment, consisting of chalcedony, calcite, and celadonite. Locally spherulitic texture within euhedral calcite grains (foram pseudomorphs?).

185-801C 14R-1 75-78; 2			#9			Unit: 34	OBSERVER:	KT, AS, Alt
ROCK NAME:	**Aphyric Basalt**							
WHERE SAMPLED:	**flow interior**							
GRAIN SIZE:	**microcrystalline, fine grained**							
TEXTURE:	**holocrystalline, seriate, granular**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.4	0.6	0.4		euhedral laths	
GROUNDMASS								
Plagioclase	50	52	0.05	0.3	0.1		euhedral laths	section has been polished thin, pyroxene is white and looks like plagioclase in crossed polars.
Pyroxene	43	45	0.01	0.1	0.05		anhedral	
Oxides	2	2					subhedral	
Olivine	0	<1	0.05	0.2	0.1		subhedral	replaced by calcite

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
Oxides	0					
Sulphides	<1	0.01	0.12	0.02	close to veins	
Calcite, saponite	5				replacing olivine, fills open spaces	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.4	0.2	saponite, calcite	

COMMENTS : Rock contains 5% alteration phases. Titanomagnetite is fresh. 50 um pyrite vein, trace disseminated pyrite.

185-801C 14R-2 108-111; 2B		#10	Unit: 35	OBSERVER:	Igneous and alteration teams
ROCK NAME:	aphyric basalt				
WHERE SAMPLED:	close to pillow rim				
GRAIN SIZE:	micro-cryptocrystalline				
TEXTURE:					

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Plagioclase	16	50	0.05	0.3	0.1		euhedral	
Pyroxene	2	45			0.04		subhedral	
Olivine	0	3			0.1		subhedral	
Oxides	2	2			<0.01		subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	40				olivine, plagioclase, pyroxene	
glauconite	40				olivine, plagioclase, pyroxene	
Fe oxide	tr				olivine, plagioclase, pyroxene	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.1	0.3	0.2	saponite	

COMMENTS : Rock comprises 80% secondary minerals. More intensely altered along 2 mm saponite + celadonite + Fe oxide vein. Calcite + saponite vein also present. Celadonite fills pores along celadonite vein, and pyrite is disseminated in the rock along the vein.

185-801C 14R-2 117-120, 2C			#11			Unit: 35	OBSERVER:	Alteration team
ROCK NAME:	Interpillow limestone							
WHERE SAMPLED:	pillow rim							
GRAIN SIZE:								
TEXTURE:								

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								
							completely recrystallized	

SECONDARY MINERALOGY	PERCENT		SIZE (mm) min.	max.	av.		REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.		FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Pillow rim fragment with interpillow limestone, which comprises 80% calcite and 20% smectite. A few glass shards completely altered to smectite occur between the pillow fragment and the limestone.

185-801C 14R-2 138-141, 6		#12	Unit: 36	OBSERVER:	Alteration team
ROCK NAME:	chert				
WHERE SAMPLED:	chert cobble				
GRAIN SIZE:	cryptocrystalline				
TEXTURE:					

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Fine grained red chert, laminated, with clay, chalcedony, and calcite veins present.

185-801C 14R-3 120-122; 10		#13	Unit: 37	OBSERVER:	Alteration team
ROCK NAME:	Interpillow sediment				
WHERE SAMPLED:	interpillow sediment				
GRAIN SIZE:	cryptocrystalline				
TEXTURE:					

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Recrystallized and hydrothermally altered (?) interpillow sediment. A pillow rim with 2 mm of altered glass is present on one side, but most consists of open space filling: calcite (50%), celadonite (40%) and chalcedony (10%). Possible radiolarians replaced by celadonite contained in calcite.

185-801C 15R-1 27-31; 4			**#14**			**Unit: 39**	**OBSERVER:**	**Igneous and alteration team**
ROCK NAME:	**Plagioclase phyric basalt with interpillow sediment**							
WHERE SAMPLED:	**chilled pillow margin**							
GRAIN SIZE:	**glassy-cryptocrystalline**							
TEXTURE:	**hypocrystalline, porphyric**							
PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm) min.**	**max.**	**av.**	**APPROX. COMP.**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS								
Plagioclase	3	3	0.2	0.4	0.3		euhedral	
GROUNDMASS								
Glass	58	60						recrystallized; quenched texture, more crystalline in pillow interior
Plagioclase	36	37	<0.02	0.2	0.1			
SECONDARY MINERALOGY	**PERCENT**		**SIZE (mm) min.**	**max.**	**av.**		**REPLACING / FILLING**	**COMMENTS**
celadonite	<1						pores	
saponite	1						pores	
calcite	1						pores	
VESICLES/ CAVITIES	**PERCENT**	**LOCATION**	**SIZE (mm) min.**	**max.**	**av.**		**FILLING / MORPHOLOGY**	**COMMENTS**
vesicular	2				1.4		calcite, celadonite	

COMMENTS : Pillow fragment is slightly altered (2%), with vesicles and pores filled with calcite, celadonite and saponite. Interpillow material is recrystallized sediment and consists of celadonite, calcite, and a few altered glass shards.

185-801C 15R-3 123-127; 4			#15			Unit: 43	OBSERVER:	Alteration team
ROCK NAME:	Interpillow sediment							
WHERE SAMPLED:	interpillow/flow sediment							
GRAIN SIZE:	fine grained							
TEXTURE:	euhedral granular							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Recrystallized interpillow sediment, consisting of close-packed spherules of calcite, granular and interlocking grains of calcite (100-400 µm) with disseminated Fe oxide. Local radiolarians replaced by Fe oxide.

185-801C 15R-4 71-74; 1 **#16** **Unit: 44** **OBSERVER:** **Alteration and igneous teams**

ROCK NAME: **Basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **fine grained- microcrystalline**
TEXTURE: **intergranular, seriate, porphyric in one corner**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	1	1	0.6	1.4	0.8		euhedral lath	some glomerocrysts of plagioclase and pyroxene
Pyroxene	<1	<1	0.2	0.2	0.2		euhedral	
GROUNDMASS								
Plagioclase	40	48	0.04	0.4	0.1		euhedral lath	
Pyroxene	36	48	0.05	0.15	0.1		subhedral	
Oxides	4	4			<0.05		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
calcite	4				olivine, pores	
saponite	15				olivine, pores	
chalcedony	1				vesicles	
sulphides		0.1	0.4			

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.1	0.5	0.1	mainly calcite	

COMMENTS : Rock contains 20% secondary minerals, and vein with multiple generations of calcite plus chalcedony and trace saponite. Local disseminated secondary pyrite.

185-801C-15R-7 69-72 1E **#17** **Unit: 46** **OBSERVER:** **Igneous and alteration teams**

ROCK NAME: **Plagioclase phyric basalt, sparsely vesicular**
WHERE SAMPLED: **flow interior close to rim**
GRAIN SIZE: **micro- cryptocrystalline**
TEXTURE: **intergranular**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	2	2	0.4	1	0.4		euhedral laths	
GROUNDMASS								
Plagioclase	17	53	0.05	0.2	0.1		euhedral laths	
Pyroxene	<1	44			0.1		euhedral- subhedral	
Oxides	<1	1			<0.05		subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
calcite	40				plagioclase	
smectite	40				pyroxene, plagioclase, interstital	
titanite	<1				titanomagnetite	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1	interspersed			0.1	smecite	

COMMENTS : Pale green rock, intensely altered (80% secondary minerals). Groundmass replaced by titanite, calcite, and tan smectite (montmorillonite?). Interstital areas and olivine(?) replaced by nontronite/celadonite.

185-801C-15R-7 106-108; 1F **#18** **Unit: 46** **OBSERVER:** **Igneous and alteration teams**

ROCK NAME: **Slightly plagioclase phyric basalt**
WHERE SAMPLED: **pillow interior**
GRAIN SIZE: **microcrystalline- cryptocrystalline**
TEXTURE: **intergranular**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	1	1	0.4	1.4	0.5		euhedral lath	
GROUNDMASS								
Plagioclase	40	55	0.1	0.3	0.15		lath	
Pyroxene	9	39			0.1		subhedral	
Olivine	0	5	0.1	0.2	0.1		euhedral to subhedral	
Oxides	1	1			<0.01		subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	39				plagioclase, olivine, pyroxene, vesicles, interstital	
calcite	10				plagioclase, vesicles	
chalcedony	1				vesicles	
sulphides	<1		0.1	0.05	close to veins	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1				0.3	calcite	

COMMENTS : Dark, green-grey rock, transitional from background dark grey alteration to intense pale green alteration. 50% secondary phases. 0.5 mm vein of calcite + saponite + celadonite + Fe oxide + chalcedony + pyrite and marcasite partly replaced by Fe-oxyhydroxide. Common disseminated pyrite along veins. Magnetite intensely altered to titanite.

185-801C 16R-1 107-110, 4F **#19** **Unit: 47** **OBSERVER:** **Igneous and alteration teams**

ROCK NAME: **Slightly olivine and plagioclase phyric basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **microcrystalline**
TEXTURE: **holocrystalline**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	1	1	0.6	1.1	0.6		euhedral	slightly altered to saponite
Olivine	0	1	0.2	0.4	0.2		euhedral	
GROUNDMASS								
Plagioclase	50	50	0.05	0.4	0.1			
Pyroxene	24	38			0.05			
Olivine	0	4			<0.1			
Oxides	8	8						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	15				interstital, olivine, vesicles, plagioclase	
calcite	4				vesicles, olivine	
chalcedony	1				vesicles	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.2	0.4	0.3	saponite, calcite, chalcedony	

COMMENTS : Dark grey, slightly altered rock containing 20% secondary phases. Common igneous sulfide globules, common disseminated secondary pyrite, magnetite is intensely altered, containing secondary shrinkage cracks. Vein (<1 mm) with early saponite + pyrite, later calcite and finally chalcedony and possible celadonite.

185-801C 16R-2 67-70; 1C **#20** **Unit: 47** **OBSERVER:** **Igneous and alteration teams**

ROCK NAME: **Slightly plagioclase phyric basalt**
WHERE SAMPLED: **pillow breccia**
GRAIN SIZE: **fine grained**
TEXTURE: **intergranular**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	1	1	0.4	0.8	0.4		euhedral, lath	plagioclase glomerocryst plus sparse phenocrysts
Olivine	0	<<1			0.2		anhedral	replaced olivine appears as part of glomerocryst
GROUNDMASS								
Plagioclase	33	50	0.05	0.3	0.2		lath	
Pyroxene	2	45	0.02	0.2	0.1		anhedral	
Oxides	5	5					euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
Calcite	30	<<	0.2		pseudomorph after plagioclase and pyroxene; filling veins and cavities	
smectite	30				replacing plagioclase and pyroxene, fills pores	
titanite	1				titanomagnetite	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<<1				0.1	**calcite, smectite**	

COMMENTS : Intensely altered pale green rock (60% secondary minerals). Altered to tan smectite (montmorillonite?) and greenish smectite (nontronite?), and abundant calcite. Titanomagnetite is highly altered to titanite. Green nontronite/cealdonite fills pores within 3 mm of vein, with pyrite disseminated in the rock just outside this alteration halo.

185-801C 16R-3 14-16; 1 **#21** **Unit:48** **OBSERVER:** **Alteration team**

ROCK NAME: **Hydrothermal iron-silica deposit**

WHERE SAMPLED: **Between igneous units.**

GRAIN SIZE:

TEXTURE:

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Cherty iron oxide material. 5-100 µm spherules of Fe-oxyhydroxide in microcrystalline quartz/chalcedony matrix. Local filamentous Fe-oxyhydroxide may be microbial in origin.

185-801C 16R-3 47-50; 5			#22			Unit: 49	OBSERVER:	Alteration team
ROCK NAME:	Limestone							
WHERE SAMPLED:	interpillow sediment							
GRAIN SIZE:								
TEXTURE:								

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Recrystallized interpillow sediment, comprising 50-100 µm close-packed calcite spherules in a matrix of Fe-oxyhydroxides, with local clasts of clay-rich material (altered glass?). Calcite veins are also present.

185-801C 16R-4 116-119; 6G			#23			Unit: 49	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**aphyric basalt**							
WHERE SAMPLED:	**flow interior**							
GRAIN SIZE:	**fine grained**							
TEXTURE:	**intergranular**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<<1	0.4	1.6	0.5		euhedral	
Pyroxene	<<1	<<1			0.4		euhedral	two phenocrysts identified
GROUNDMASS								
Plagioclase	50	51	0.1	0.3	0.2		lath	
Pyroxene	35	44	0.025	0.075	0.04		subhedral	
Oxides	5	5	0.01	0.1	0.04		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
sulphides	<<1	0.01	0.1	0.07		In vein and disseminated near vein
Saponite	5				olivine, pores	
calcite	5				vesicles	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
Vesicles	1		0.1	0.3	0.2	filled with saponite and calcite	

COMMENTS : Dark grey basalt, slightly altered and containing 10% secondary phases. Titanoagnetite is fresh to slightly altered. 10-20 µm pyrite veinlet present.

185-801C 16R-5 107-110, 13			#24			Unit: 49	OBSERVER:	Alt, AS
ROCK NAME:	**Aphyric basalt with slightly plagioclase and olivine phyric glass rims**							
WHERE SAMPLED:	**pillow rim with glassy chill**							
GRAIN SIZE:	**glassy to cryptocrystalline**							
TEXTURE:	**porphyric**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	5	5	0.02	1.4	0.1		euhedral laths	phenocrysts more abundant in pillow interior
Olivine	0	3	0.05	0.2	0.1		euhedral	
GROUNDMASS								
Glass	75	87						various quench textures
Magnetite	5	5			<0.005		euhedral to subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	2				replacing olivine and filling pore space	
celadonite/nontronite	2				replacing olivine and filling pore space	
calcite	1				replacing olivine and filling pore space	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1				0.1	filled with celadonite/nontronite, saponite, and calcite	

COMMENTS : Dark gray chilled pillow margin, containing 5% secondary phases. Disseminated igneous sulfides are rare, and disseminated secondary pyrite is common. Glass at pillow rim is 70% altered.

185-801C 17R-1 44-47; 7A			#25			Unit: 49	OBSERVER:	AS, Alt
ROCK NAME:	**aphyric basalt**							
WHERE SAMPLED:	**flow interior**							
GRAIN SIZE:	**fine grained; hyaline in one corner**							
TEXTURE:	**intergranular**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.4	0.6	0.5		euhedral laths	
GROUNDMASS								
Plagioclase	45	45	0.02	0.15	0.07		lath	
Pyroxene	35	38	0.01	0.05	0.02			
Oxides	10	10	<0.01	0.1	0.02		euhedral	
Glass	7	7						quenched textures

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
Calcite	1				filling open spaces	
saponite	2				filling open spaces	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.2	0.15	filled with saponite and calcite	

COMMENTS : Dark grey basalt containing 3% secondary minerals, which fill pore spaces. Titanomagnetite is unaltered to slightly altered, and pyrite is rare.

185-801C 17R-3 85-91; 6			#26			Unit: 49	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**aphyric basalt**							
WHERE SAMPLED:	**glassy rim**							
GRAIN SIZE:	**glassy, cryptocrystalline, fine grained**							
TEXTURE:	**hypohyalline to hypocrystalline; seriate**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
plagioclase	<1	<1	0.4	0.8	0.5		euhedral laths	
GROUNDMASS								
plagioclase	35	30	0.05	0.3	0.15		lath	
pyroxene	5	11	0.05	0.2	0.1			
olivine	0	2	0.05	0.2	0.1		euhedral	
glass	50	50						quenched textures
oxides	7	7			<0.01		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	2				olivine, pores	
calcite	1				olivine, pores	
pyrite	<1				disseminated	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
Vesicles	1		0.1	0.2	0.15	saponite and calcite	

COMMENTS : Dark gray vey fine grained basalt (chili), containing 3% secondary phases, and calcite + saponite veinlets.

185-801C 15R-1 57-60, 10			#27			Unit: 40	OBSERVER:	Alteration team
ROCK NAME:	**Interpillow chert**							
WHERE SAMPLED:	**Between pillow units.**							
GRAIN SIZE:	**Microcrystalline to cryptocrystalline**							
TEXTURE:								

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Interpillow chert, consisting of mircrocrystalline quartz, chalcedony, with pseudomorphs of radiolaria(?), common Fe-oxyhydroxide, and 0.1-0.5 mm thick quartz veins.

185-801C 15R-2 55-58; 3	#28	Unit:42	OBSERVER:	Igneous and alteration teams

ROCK NAME: Altered aphyric basalt + interpillow sediment and chert
WHERE SAMPLED: Brecciated zone between pillow units.
GRAIN SIZE: microcrystalline to cryptocrystalline
TEXTURE: hypocrystalline to glassy

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Olivine	0	2	0.04	0.3	0.05		euhedral, equant	
GROUNDMASS								
Plagioclase	1	50	0.01	0.03	0.02		subhedral	sizes are lengths of laths
Pyroxene	0	27	0.01	0.02	0.02		subhedral	
Olivine	0	10			0.6			
Glass	0	10						
Opaques	0	1			<0.01			

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
smectite	47				plagioclase, pyroxene, olivine, pores	
calcite	47				plagioclase, pyroxene, olivine, pores	
titanite	1				Titanomagnetite	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicles	<1		0.4	0.8	0.6	clay filled	

COMMENTS : Pale green basalt is intensely altered (95% secondary phases, including smectite, calcite, titanite and Fe-oxyhydroxides). Interpillow sediment comprises Fe-oxyhydroxide, calcite, chalcedony, and minor clasts of altered glass.

185-801C 18R-1 70-73; 1D		**#29**	**Unit: 50**	**OBSERVER:** **Igneous and alteration teams**
ROCK NAME:	**aphyric basalt**			
WHERE SAMPLED:	**flow interior**			
GRAIN SIZE:	**microcrystalline**			
TEXTURE:	**intergranular**			

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.3	0.8	0.4		euhedral laths	
Olivine	0	1			0.2		subhedral	
GROUNDMASS								
Plagioclase	51	53	0.05	0.25	0.15		euhedral	cluster or glomerocrysts of plagioclase
Pyroxene	30	32	0.05	0.2	0.05		subhedral-anhedral	
Olivine	0	5			0.1			
Oxides	9	10	0.01	1.0	0.025		euhedral, dendrites	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	10				olivine, pores	
pyrite	tr				recrystallized igneous grains	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.2	0.15	filled with secondary minerals	

COMMENTS : Dark gray basalt, 10% secondary phases present. Titanomagnetite is fresh to slightly altered, and very rare tiny (2 µm) igneous sulfides are present.

185-801C 19R-3 37-39; 1 **#30** **Unit: 50** **OBSERVER:** **Igneous and alteration teams**

ROCK NAME: **aphyric basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **microcrystalline**
TEXTURE: **intergranular**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.3	1.2	0.4		euhedral	
Olivine	0	<1	0.1	0.2	0.15		subhedral	
GROUNDMASS								
Plagioclase	40	47	0.05	0.2	0.1		euhedral laths	
Pyroxene	34	45	0.02	0.08	0.05		subhedral	
Oxides	6	6	0.01	0.1	0.01		euhedral	
Olivine	0	2		0.2	0.1		subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
calcite	<1			0.1	pores	
saponite	5				pores	
celadonite	5				pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.1	0.2	0.15	saponite, calcite	

COMMENTS : Dark grey basalt containing 5-10% secondary phases: saponite and calcite filling pores plus rare pyrite disseminated and replacing igneous grains. 5 mm thick dark alteration halo on one side of sample, where pores are filled with celadonite and Fe-oxyhydroxide (plus rare secondary pyrite).

185-801C 20R-3 36-38; 6			#31			Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	aphyric basalt							
WHERE SAMPLED:	glassy intrusive contact							
GRAIN SIZE:	cryptocrystalline							
TEXTURE:	hypohyalline to hypocrystalline, trachyitic in places							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.35	0.9	0.2		euhedral lath	unaltered
GROUNDMASS								
Plagioclase	45	50	0.02	0.2	0.1		euhedral laths	
Pyroxene	35	40			0.08		subhedral	
Olivine	0	2	0.025	0.1	0.05		subhedral	
Glass	15	5						quench textures

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	3				pores, veins	
celadonite	1				pores, veins	
calcite	1				pores, veins	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	pores, veins	COMMENTS
vesicular	<1		0.04	0.15	0.1	saponite, celadonite	

COMMENTS : Dark gray basalt containing 5% secondary phases. 50-100 µm veins of 1) celadonite; 2) saponite; and 3) calcite. Vesicles are filled with celadonite + saponite near veins, and with saponite farther from veins. Disseminated pyrite is rare, and some pyrite is replaced by hematite in saponite-calcite veins.

185-801C 21R-1 103-106; 6B		#32		Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	flow interior					
GRAIN SIZE:	microcrystalline					
TEXTURE:	seriate					

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
plagioclase	45	50	0.05	0.6	0.2		euhedral laths	some cluster
pyroxene	32	40	0.02	0.2	0.1		anhedral	
olivine	0	2	0.05	0.2	0.1		subhedral	
glass	5	5						devitrified
oxides	3	3	0.01	0.2	0.05		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
calcite	1				olivine, interstitial, pores	
saponite	4				olivine, interstitial, pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	2		0.08	0.4	0.15	saponite, calcite	
cavities	<1		0.05	0.3	0.2	saponite, calcite	irregular form

COMMENTS : Dark gray basalt containing 5% secondary phases. Titanomagnetite is fresh to slightly altered. Abundant recrystallized igneous sulfide golbules.

185-801C 21R-2 71-75; 6			#33			Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	Aphyric basalt							
WHERE SAMPLED:	contact between basalt and interpillow material							
GRAIN SIZE:	microcrystalline							
TEXTURE:	holocrystalline							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Plagioclase	44	53	0.05	0.6	0.15		euhedral laths	
Pyroxene	33	42	0.05	0.3	0.05		subhedral	
Olivine	0	2			0.05		subhedral	
Oxides	3	3			<0.01		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	10				filling pores and replacing interstital material	
nontronite	10				filling pores and replacing interstital material	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.15	0.3	0.2	saponite, nontronite/celadonite	

COMMENTS : Interpillow material is 95% calcite with 5% Fe-oxyhydroxide spherules and filaments. Basalt contains 20% secondary phases, and commmon disseminated pyrite within 3 mm of contact with sediment.

185-801C 21R-3 93-96.5; 5		#34	Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	Veined aphyric basalt				
WHERE SAMPLED:	Vein of interpillow/hydrothermal material				
GRAIN SIZE:	microcrystalline				
TEXTURE:	seriate				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.2	0.4	0.3		euhedral lath	
GROUNDMASS								
Plagioclase	40	50	0.05	0.25	0.2		euhedral laths	
Pyroxene	36	40	0.05	0.05	0.05		euhedral to subhedral	
Olivine	0	6	0.05	0.15	0.1		subhedral to anhedral	
Oxides	4	4			0.02		euhedral to subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	15				pores	
nontronite	5				pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.2	0.1	saponite, nontronite	

COMMENTS : Dark gray basalt containing 20% secondary phases. Large (several mm) vein contains calcite plus lesser saponite/nontronite, Fe-oxyhydroxides, and chalcedony.

185-801C			**#35**		**Unit: 50**	**OBSERVER:**	**Alteration team**	
ROCK NAME:	**Interpillow chert**							
WHERE SAMPLED:	**interpillow material**							
GRAIN SIZE:								
TEXTURE:								

PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm)**			**APPROX. COMP.**	**MORPHOLOGY**	**COMMENTS**
			min.	**max.**	**av.**			
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	**PERCENT**		**SIZE (mm)**				**REPLACING / FILLING**	**COMMENTS**
			min.	**max.**	**av.**			

VESICLES/ CAVITIES	**PERCENT**	**LOCATION**	**SIZE (mm)**				**FILLING / MORPHOLOGY**	**COMMENTS**
			min.	**max.**	**av.**			

COMMENTS : Interpillow sediment (chert), comprising 90% quartz, 9% calcite and 1% Fe-oxide.

185-801C 22R-2 18-21, 1B **#36** **Unit: 50** **OBSERVER:** **Igneous and alteration team**

ROCK NAME: **Aphyric basalt with plagioclase and pyroxene phyric patches**
WHERE SAMPLED: **contact between basalt and interpillow material**
GRAIN SIZE: **fine grained to microcrystalline**
TEXTURE: **holocrystalline**

PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm) min.**	**max.**	**av.**	**APPROX. COMP.**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS								
Plagioclase	<1	<1	1.5	1.5			euhedral laths	only 1 plagioclase phenocryst observed
Pyroxene	<1	<1	0.2	0.5	0.4		euhedral	only 1 cluster of pyroxene phenocrysts intergrown with the 1 plagioclase observed
GROUNDMASS								
Plagioclase	45	48	0.05	0.4	0.2		euhedral laths	
Pyroxene	10	12			0.05		subhedral	
Olivine	0	5	0.05	0.2	0.1		subhedral	
Oxides	5	5			<0.01		subhedral	
Glass	30	30					devitrified	

SECONDARY MINERALOGY	**PERCENT**	**SIZE (mm) min.**	**max.**	**av.**	**REPLACING / FILLING**	**COMMENTS**
saponite	4				replacing olivine and filling pores	
celadonite	4				replacing olivine and filling pores	
Fe oxide	2				replacing olivine and filling pores	

VESICLES/ CAVITIES	**PERCENT**	**LOCATION**	**SIZE (mm) min.**	**max.**	**av.**	**FILLING / MORPHOLOGY**	**COMMENTS**
vesicular	<1		0.15	0.38	0.2	saponite, celadonite, Fe-oxide, calcite	

COMMENTS : Altered rock clast (with 10% secondary phases) and interpillow sediment. The latter comprises 75% calcite spherules and masses, 15% chalcedony, and 10% smectite and trace Fe oxide.

185-801C 23R-1 27-28, 3B **#37** **Unit: 50** **OBSERVER:** **Igneous and alteration teams**

ROCK NAME: **Aphyric basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **microcrystalline**
TEXTURE: **holocrystalline**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.34	0.7	0.4		euhedral laths	
GROUNDMASS								
Plagioclase	45	48	0.05	0.3	0.15		euhedral laths	
Pyroxene	40	44	0.03	0.1	0.06		anhedral	
Olivine	0	3			0.05		anhedral	
Oxides	5	5			0.02		euhedral to subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
calcite	2				vesicles, pores	
saponite	5				filling vesicles and pores, replacing matrix, olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.18	0.24	0.2	filled with saponite and calcite	

COMMENTS : Dark grey basalt contaning 5-10% secondary phases. Titanomagnetite is fresh to slightly altered, and no sulfides were observed.

185-801C 23R-1 119-121, 10			#38			Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**Aphyric basalt**							
WHERE SAMPLED:	**flow unit**							
GRAIN SIZE:	**microcrystalline**							
TEXTURE:	**holocrystalline**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<<1	0.3	0.4			euhedral lath	only 2 phenocrysts
GROUNDMASS								
Plagioclase	50	57	0.1	0.45	0.2		euhedral lath	
Pyroxene	35	35	0.02	0.1	0.05		subhedral	
Oxides	5	5	<0.01	0.05	0.01		subhedral	
Olivine	0	3	0.1	0.4	0.2		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
calcite	2				replaces olivine, fills pores	
saponite	8				replaces olivine, fills pores	cryptocrystalline

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.3	0.2	filled with calcite, saponite	

COMMENTS : Dark gray basalt containing 5-10% secondary minerals. Titanomagnetite is fresh to slightly altered, and sulfides are very rare, occurring only as inclusions in igneous minerals.

185-801C 24R-1 101-103, 11		#39	Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**Slightly plagioclase phyric basalt**				
WHERE SAMPLED:	**flow interior**				
GRAIN SIZE:	**microcrystalline**				
TEXTURE:	**porphyritic**				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Pagioclase	1	1	0.3	1.1	0.3		euhedral	
GROUNDMASS								
Plagioclase	52	55	0.05	0.3	0.2		euhedral laths	
Pyroxene	30	31	0.01	0.1	0.05		subhedral	
Olivine	0	6	0.2	0.5	0.2		euhedral	
Oxides	8	8			0.02		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
Calcite	1				pores, olivine	
Celadonite	2				pores, olivine	
Sulphides	<1				veins	
Saponite	5				pores, olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.2	0.15	saponite, calcite, celadonite	

COMMENTS : Dark gray basalt containing 5-10% secondary minerals. Band of disseminated pyrite 3-5 mm from edge of sample defines alteration halo, where celadonite and Fe-oxyhydroxides occur, whereas host rock contains saponite and calcite. Titanomagnetite is fresh to slightly altered throughout.

185-801C 24R-1 112-114, 12		#40	Unit: 50	OBSERVER:	KT, AS, Alt
ROCK NAME:	Aphyric basalt				
WHERE SAMPLED:	contact aphyric basalt- interpillow material				
GRAIN SIZE:	microcrystalline				
TEXTURE:	holocrystalline, trachyitic				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.2	2.0	0.2		euhedral laths	phenocrysts are much thicker than groundmass; 2mm phenocryst occurs close to contact
GROUNDMASS								
Plagioclase	55	55	0.05	0.3	0.2		euhedral laths	
Pyroxene	30	37	0.1	0.4	0.2		subhedral	
Olivine	0	2			0.05		subhedral	
Oxides	5	6			0.02		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
Calcite	2				olivine, pores	
Celadonite	4				olivine, pores	
Saponite	4				olivine, pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.15	0.3	0.2	filled with saponite, calcite, celadonite	

COMMENTS : Dark gray basalt containing 10% secondary minerals. Celadonite and Fe-oxyhydroxide occur within 2 mm of sediment contact whereas saponite and calcite occur throughout the rock. Recrystallized sediment consists of carbonate and trace Fe-oxyhydroxide and calcedony.

185-801C 27R-5 8-12, 1			#41			Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	**Aphyric basalt**							
WHERE SAMPLED:	**altered flow interior**							
GRAIN SIZE:	**microcrystalline**							
TEXTURE:	**intergranular**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.4	0.6	0.8		euhedral	thicker than groundmass
GROUNDMASS								
Plagioclase	40	54	0.05	0.6	0.2		euhedral laths	
Pyroxene	35	40	0.02	0.25	0.1		subhedral	
Olivine	0	1	0.1	0.2	0.1		subhedral	
Oxides	5	5			0.02		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
calcite	1				vesicles	
saponite	10				interstital, pores, vesicles	
cealdonite/nontronite	5				interstital, pores, vesicles	
Fe-oxides	1				interstital, pores, vesicles	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.2	0.4	0.3	filled with brown clay minerals	

COMMENTS : Irregular 1 cm diameter vug filled with: 1. saponite/nontronite; 2. Calcite (spherules and subhedral scalenohedra); 3. Chalcedony; and 4. Pyrite. Host basalt contains 15-20% sedondary phases. Celadonite/ nontronite and Fe-oxyhydroxide occur within 1-3 mm of vug, saponite occurs in the remainder of the rock.

185-801C 26R-1 27-30, 4A	#42	Unit: 50	OBSERVER:	Igneous and alteration teams

ROCK NAME: Aphyric basalt
WHERE SAMPLED: contact of basalt and interpillow material
GRAIN SIZE: cryptocrystalline
TEXTURE: intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Plagioclase	25	30	0.05	0.3	0.1			
Pyroxene	2	5			0.05			
Oxides	5	5	<<<	0.02	<<0.01			
Glass	60	60						cryptocrystalline, devitified

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
celadonite	2				pores, olivine	
saponite	4				pores, olivine	
Fe oxide	1				pores, olivine	
calcite	1				pores, olivine	
pyrite	<1				disseminated	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.1	0.25	0.2	saponite, celadonite, Fe oxide, calcite	

COMMENTS : Rock probably is an intrusion breccia. Dark gray basalt contains 5-10% secondary phases. Celadonite and Fe-oxyhydroxides occur within 3 mm of edges of clasts, saponite occurs throughout the rock. Interpillow material consists of calcite, celadonite, chalcedony, and Fe oxide. Fe-oxyhydroxide occurs as spherules and filaments.

185-801C 26R-1 89-92, 8			#43			Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	Aphyric basalt							
WHERE SAMPLED:	flow interior							
GRAIN SIZE:	microcrystaline							
TEXTURE:	holocrystalline							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.3	0.9	0.6		euhedral laths	
GROUNDMASS								
Plagioclase	35	37	0.05	0.3	0.1		euhedral laths	slightly altered to saponite
Pyroxene	7	7	0.02	0.06	0.05		subhedral	
Olivine	0	1					subhedral	
Oxides	7	7	<0.01	0.02	0.01			
Glas	41	48						devitified

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	8				filling pores, replacing olivine	cryptocrystalline
calcite	2				filling vesicles, replacing olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.1	0.25	0.15	filled with calcite and/or saponite	

COMMENTS : Dark gray basalt contains 10% secondary minerals. No sulfides were observed.

185-801C 27R-3 6-11, 2			#44		Unit: 53	OBSERVER:	Alt
ROCK NAME:	**Chert and limestone**						
WHERE SAMPLED:	**Interpillow**						
GRAIN SIZE:	**yes**						
TEXTURE:	**OK**						

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Red interpillow sediment. 50% chert, with recrystallized radiolarians, calcite, smectite and Fe-oxyhydroxide. 50% limestone with celadonite/nontronite and Fe-oxyhydroxides.

185-801C 27R-5 8-12, 1		#45		Unit: 50	OBSERVER:	Igneous and alteration teams
ROCK NAME:	Aphyric basalt					
WHERE SAMPLED:	flow interior					
GRAIN SIZE:	fine grained					
TEXTURE:	seriate, subophitic					

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	none							
GROUNDMASS								
Plagioclase	40	50	0.05	0.9	0.2		euhedral laths	
Pyroxene	35	44	0.05	0.3	0.2		subhedral	
Olivine	0	5	0.05	0.3	0.1		subhedral	
Oxides	1	1	0.01	0.15	0.05			

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
Saponite	10				replacing olivine and interstitial material, filling pores,	
calcite	tr				filling pores, replacing olivine	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<<1				0.1	filled with saponite	

COMMENTS : Dark grey basalt contains 10% secondary minerals. Titanomagnetite is fresh, and recrystallized igneous sulfide globules are abundant.

185-801C 30R-2 98-100, 3B **#46** **Unit: 51** **OBSERVER:** **AS, Alt**

ROCK NAME: **Basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **fine grained**
TEXTURE: **seriate**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								
Plagioclase	47	47	0.1	1.4	0.4		euhedral laths	
Pyroxene	40	40	0.05	0.6	0.2		subhedral to anhedral	
Olivine	0	8	0.1	0.5	0.2		euhedral to subhedral	
Magnetite	5	5			0.05		euhedral to subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	8				replacing olivine and interstitial material, filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.4	0.5	0.4	saponite	

COMMENTS : Dark gray basalt containing 8% secondary minerals. Titanomagnetite is fresh, and disseminated igneous sulfide globules are common.

185-801C 30R-5 47-49, 1		#47	Unit: 51	OBSERVER:	A. Schmidt and alteration team
ROCK NAME:	Basalt				
WHERE SAMPLED:	altered flow interior				
GRAIN SIZE:	fine grained				
TEXTURE:	holocrystalline				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase				>1.0			euhedral laths	percentage not observable
GROUNDMASS								
Plagioclase					0.4		euhedral	percentage not observable
Pyroxene					0.2		subhedral	percentage not observable

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	60				replacing olivine, interstitial material, plagioclase, and filling pore spaces and large miarolitic vug	
calcite	25				filling miarolitic vug	
chalcedony	5				filling miarolitic vug	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
miarolytic	50				10	highly irregular shape, filled with calcite, smectite, chalcedony and trace pyrite.	

COMMENTS : Most of thin section is lost in sectioning, leaving mainly miarolitic vug filling. Host rock is highly altered, containing 40% secondary minerals. Approximately 1 cm highly irregularly shaped miarolitic vug contains 50% calcite, 40% smectite, 10% chalcedony, and trace pyrite.

185-801C 30R-5 97-101, 4 **#48** **Unit: 51** **OBSERVER:** **Alt, AS**

ROCK NAME: **Aphyric Basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **fine grained**
TEXTURE: **seriate, holocrystalline**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<<1	1	1	1		euhedral, no laths	only 2 phenocrysts observed
GROUNDMASS								
Plagioclase	44	44	0.1	1	0.4		euhedral	
Pyroxene	41	41	0.1	0.1	0.2		subhedral to anhedral	
Olivine	0	10			0.2		anhedral	
Magnetite	5	5						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	20				replacing olivine and interstitial material, filling pores	
calcite	tr				replacing olivine and interstitial material, filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.3	1	0.4	saponite	
cavities	10					saponite	

COMMENTS : Dark grey basalt containing 20% secondary phases. Titanomagnetite is fresh, and disseminated igneous sulfide globules are abundant. Disseminated secondary pyrite is also common.

185-801C 31R-3 48-51, 2B **#49** **Unit: 51** **OBSERVER:** **Alt, AS**

ROCK NAME: **Sparsely olivine phyric/aphyric basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **fine grained**
TEXTURE: **holocrystalline, seriate**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.6	2	0.8		euhedral	
GROUNDMASS								
Plagioclase	45	45	0.05	1.2	0.4		euhedral	
Pyroxene	40	40	0.05	0.4	0.2		anhedral	
Olivine	0	12	0.1	0.25	0.15		euhedral	
Magnetite	3	3			<0.02		euhedral to subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	12				replacing olivine and interstitial material, filling pore space	
calcite	tr				replacing olivine and interstitial material, filling pore space	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.2	0.3	0.2	Saponite and calcite	

COMMENTS : Dark grey basalt containing 12% secondary phases. Titanomagnetite is fresh, and igneous sulfide globules are abundant.

185-801C 31R-5, 2I		**#50**	**Unit: 51**	**OBSERVER:**	**AS, Alt**
ROCK NAME:	**Aphyric basalt**				
WHERE SAMPLED:	**flow interior**				
GRAIN SIZE:	**fine grained**				
TEXTURE:	**holocrystalline, seriate**				

PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm) min.**	**max.**	**av.**	**APPROX. COMP.**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS								
Plagioclase	<1	<1	0.8	1			euhedral	phenocrysts much thicker than groundmass
GROUNDMASS								
Plagioclase	45	45	0.1	1.4	0.25		euhedral	
Pyroxene	40	40	0.05	0.5	0.1		subhedral to anhedral	
Olivine	0	11	0.1	0.3	0.2		euhedral to subhedral	
Oxides	4	4			0.1		euhedral to subhedral	
	89	100						

SECONDARY MINERALOGY	**PERCENT**	**SIZE (mm) min.**	**max.**	**av.**	**REPLACING / FILLING**	**COMMENTS**
saponite	11				replacing olivine and interstitial material, filling pore space	

VESICLES/ CAVITIES	**PERCENT**	**LOCATION**	**SIZE (mm) min.**	**max.**	**av.**	**FILLING / MORPHOLOGY**	**COMMENTS**
vesicular	<1		0.2	0.4	0.3	saponite	

COMMENTS : Dark grey basalt containing 12% secondary minerals. Titanomagnetite is fresh, and igneous sulfide globules are abundant.

185-801C 32R-1 67-69			#51	Unit: 52	OBSERVER:	AS, Alt
ROCK NAME:	**Aphyric basalt**					
WHERE SAMPLED:	**Flow bottom**					
GRAIN SIZE:	**glassy to cryptocrystalline**					
TEXTURE:	**porphyritic, hypohyalin**					

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	1	1	0.3	0.7	0.4		euhedral	
GROUNDMASS								
Glass	90	90						various quench textures
Plagioclase	5	5			0.05		euhedral to subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
celadonite/nontronite	3				filling pores	
Fe oxide	1				filling pores	
Saponite	1				filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1				0.05	celadonite, Fe oxide	

COMMENTS : Dark grey chilled pillow margin, containing 5% secondary phases. Glass is unaltered.

185-801C 33R-1 123-124, 12 **#52** **Unit: 53** **OBSERVER:** **AS, Alt**

ROCK NAME: **Aphyric basalt**
WHERE SAMPLED: **Pillow interior**
GRAIN SIZE: **cryptocrystalline**
TEXTURE: **hypocrystalline**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<1	0.25	0.6	-		euhedral	
GROUNDMASS								
Plagioclase	15	15	0.05	0.4	-		euhedral	
Pyroxene	2	2	0 .05	0.1	0.05		subhedral	
Glass	76	76						partly recrystalized, quenched textures
Magnetite	2	2			<0.02		euhedral to subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	1				replacing olivine and filling pores	
celadonite/ nontronite	2				replacing olivine and filling pores	
Fe-oxide	1				replacing olivine and filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
Vesicular	<1		0.1	0.5	0.25	filled with saponite, celadonite, and Fe-oxyhydroxides	

COMMENTS : Mostly dark grey basalt containing 1% secondary minerals, with 1-3 mm dark alteration halos that contain 3% secondary celadonite/nontronite and Fe-oxyhydroxide. Two 40 µm veins of celadonite + Fe-oxyhydroxide cut the sample.

185-801C 34R-2 21-23, 1C **#53** **Unit: 53** **OBSERVER:** **Alt, AS**

ROCK NAME: **Aphyric basalt**
WHERE SAMPLED: **pillow interior**
GRAIN SIZE: **microcrystalline, fine grained**
TEXTURE: **holocrystalline, seriate**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	46	49	0.05	1	0.2		euhedral	
Pyroxene	45	47	0.05	0.2	0.1		subhedral	
Magnetite	4	4			0.05		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	5				filling pores, replacing interstitial material	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.3	0.5	0.4	saponite	

COMMENTS : Dark grey basalt containing 5% secondary phases. No igneous sulfide observed. Magnetite is slightly altered.

185-801C 34R-2 52-55, 1F			#54			Unit: 53	OBSERVER:	Alt, AS
ROCK NAME:	**aphyric basalt**							
WHERE SAMPLED:	**pillow interior**							
GRAIN SIZE:	**microcrystalline**							
TEXTURE:	**seriate**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	60	60	0.05	0.8	0.3		euhedral laths	
Pyroxene	10	35	0.05	0.2	0.1		subhedral	
Magnetite	5	5	<0.02	0.2	0.05		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
celadonite/nontronite	14				replacing olivine, and filling pores	
saponite	10				replacing olivine and plagioclase, and filling pores	
Fe oxide	1				replacing olivine, and filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.3	0.1	celadonite, saponite, Fe oxide	

COMMENTS : Brownish rock containing 25% secondary minerals. Magnetite moderately altered, no sulfides observed. 1 mm thick vein of smectite, Fe-oxyhydroxide, calcite and chalcedony.

185-801C 34R-3 55-58, 4			#55			Unit: 53	OBSERVER:	Alt, AS
ROCK NAME:	Aphyric basalt							
WHERE SAMPLED:	Pillow interior							
GRAIN SIZE:	microcrystalline							
TEXTURE:	hypocrystalline, seriate							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	50	50	0.05	0.6	0.15		euhedral laths	
Pyroxene	35	40	0.05	0.2	0.1		subhedral	
Olivine	0	4	0.05	0.2	0.15		euhedral	
Oxides	5	6			0.03		euhedral	
								maybe groundmass contains also altered glass

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	1				filling pores	
celadonite/nontronite	5				filling pores	
chalcedony	2				filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.2	0.3	0.2	filled with celadonite-nontronite, Fe-oxyhydroxides, saponite, chalcedony	

COMMENTS : Grey host rock with brown and dark halos along 1.5 mm vein of calcite + chalcedony. Rock contains 10% secondary phases, with Fe-oxyhydroxides and celadonite concentrated in brown and dark halos, respectively. Host rock contains saponite and chalcedony. No igneous sulfides observed.

185-801C 17R-1 35-38, 6			#56			Unit: 49	OBSERVER:	AS, Alt
ROCK NAME:	Porphyric basalt							
WHERE SAMPLED:	Pillow rim							
GRAIN SIZE:	hypohyaline to cryptocrystalline							
TEXTURE:	glassy							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	24	25	0.03	0.8	0.05		euhedral laths	
Olivine	0	3			0.1		euhedral	diamond shaped
Pyroxene	0	2			0.1		euhedral	
GROUNDMASS								
Glass	63	67					quenched textures	
Oxides	3	3						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
calcite	9				replacing olivine and filling pores	
saponite	1				replacing olivine and filling pores	
pyrite	<1				disseminated	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	2		0.1	0.2	0.1	calcite, saponite	

COMMENTS : Dark grey chilled pillow rim, containing 10% secondary minerals. Glass is 90% altered and secondary pyrite is common.

185-801C 35R-2 98-100, 5		#57	Unit: 53	OBSERVER:	AS ALT
ROCK NAME:	Aphyric basalt				
WHERE SAMPLED:	flow interior				
GRAIN SIZE:	microcrystalline to cryptocrystalline				
TEXTURE:	holocrystalline				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	50	50			0.4		euhedral	
Pyroxene	22	25			0.1		subhedral	
Magnetite	3	5			0.02		subhedral	
interstitial material (devitrified glass)	25	20						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
celadonite	1				replacing interstital material and filling pores	
Saponite	2				replacing interstital material and filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.3		filled with saponite	replacing interstital material and filling pores
miarolytic vug	10			4		filled with Fe oxide, saponite, calcite, and chalcedony	large irregular vug

COMMENTS : Basalt is highly altered within 1 cm of large miarolitic vug. Remainder of section is only slightly altered.

185-801C 37R-1 29-32, 1A **#58** **Unit: 54** **OBSERVER:** **Alt, AS**

ROCK NAME: **Aphyric basalt**
WHERE SAMPLED: **Flow interior**
GRAIN SIZE: **microcrystalline**
TEXTURE: **holocrystalline to cryptocrystalline**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								
Plagioclase	50	54	0.06	0.4	0.25		euhedral	
Pyroxene	30	40	0.05	0.09	0.07		subhedral	
Magnetite	5	6	<0.02	0.2	0.1		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	8				replacing olivine and filling pores	
caclite	7				replacing olivine and filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1				0.2	filled with calcite	
irregular	1		0.1	0.4	0.2	filled with calcite	

COMMENTS : Brown-grey rock with 3 mm brown halo along 3 mm wide vein of calcite + Fe oxide. Rock contains 15% secondary minerals. Magnetite is intensely altered and contains shrinkage cracks. Pyrite is disseminated in a band outside the brown alteration halo.

185-801C 37R-1 66-68, 1D			#59			Unit: 54	OBSERVER:	Alt, AS
ROCK NAME:	**Aphyric basalt**							
WHERE SAMPLED:	**Flow interior**							
GRAIN SIZE:	**fine grained**							
TEXTURE:	**seriate, holocrystalline**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	44	50	0.1	1.4	0.45		euhedral	
Pyroxene	44	48	0.05	0.2	0.1		subhedral	
Magnetite	2	2	0.05	0.15	0.1		subhedral	

SECONDARY MINERALOGY	PERCENT		SIZE (mm) min.	max.	av.		REPLACING / FILLING	COMMENTS
saponite	5						replacing plagioclase, olivine and pyroxene, and filling pores	
calcite	5						filling pore space	
pyrite	<1						disseminated along vein	pyrite also replaces augite in zone parallel to vein

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.		FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.3	0.7	0.4		filled with calcite	
irregular	1-2				0.4		filled with calcite	

COMMENTS : Dark grey basalt containing 10% secondary phases. 4 mm wide vein of calcite + Fe-oxyhydroxide, rare igneous sulfides.

185-801C 37R-1 34-38, 1F			#60			Unit: 54	OBSERVER:	Alt, AS
ROCK NAME:	**Aphyric basalt**							
WHERE SAMPLED:	**Flow interior**							
GRAIN SIZE:	**fine grained**							
TEXTURE:	**holocrystalline**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None.							
GROUNDMASS								
Plagioclase	48	50	0.1	1.2	0.4		euhedral	
Pyroxene	30	43	0.05	0.3	0.2		subhedral	
Magnetite	7	7			0.02		subhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	7				replacing plagioclase, olivine and pyroxene, filling pore space	
calcite	8				filling pore spaces	
pyrite, marcasite	<1				disseminated, filling vesicles	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.8	4	0.8	filled with calcite, pyrite, and marcasite	vesicles alined
irregular	2		0.2	0.8	0.6	filled with calcite, pyrite, and marcasite	

COMMENTS : Dark grey vesicular basalt, containing 15% secondary phases. More altered adjacent to vesicles.

185-801C 37R-2 25-28,			#61			Unit: 54	OBSERVER:	Alt, AS
ROCK NAME:	**Vesicular aphyric basalt**							
WHERE SAMPLED:	**Flow interior**							
GRAIN SIZE:	**fine grained**							
TEXTURE:	**holocrystalline, seriate**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	50	55	0.2	1.4	0.6		euhedral	
Pyroxene	28	35	0.1	0.6	0.3		subhedral	
Magnetite	7	7	0.05	0.3	0.1		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	7				replacing plagioclase and pyroxene, filling pore spaces.	
calcite	8				filling vesicles	
pyrite	<1				disseminated, filling vesicles	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesiclular	10		0.8	4	-	filled with calcite, saponite, pyrite and marcasite	

COMMENTS : Dark grey basalt containing 15% secondary phases. Disseminated secondary pyrite and marcasite are common.

185-801C 37R-3 37-40, 1A		**#62**	**Unit: 54**	**OBSERVER:**	**Alt, AS**
ROCK NAME:	**Aphyric basalt**				
WHERE SAMPLED:	**Flow interior**				
GRAIN SIZE:	**fine grained**				
TEXTURE:	**holocrystalline to cryptocrystalline**				

PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm) min.**	**max.**	**av.**	**APPROX. COMP.**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	50	55	0.1	2.2	0.6		euhedral	
Pyroxene	23	35	0.1	0.7	0.3		anhedral	
Magnetite	7	10			0.08		euhedral	

SECONDARY MINERALOGY	**PERCENT**	**SIZE (mm) min.**	**max.**	**av.**	**REPLACING / FILLING**	**COMMENTS**
saponite	8				replacing plagioclase, clinopyroxene, and olivine, and filling pore space	
calcite	7				filling pore space	
Fe oxide	5				disseminated, replacing olivine	

VESICLES/ CAVITIES	**PERCENT**	**LOCATION**	**SIZE (mm) min.**	**max.**	**av.**	**FILLING / MORPHOLOGY**	**COMMENTS**
vesicular	<1		0.5	0.8	0.6	filled with calcite and saponite	

COMMENTS : Brown basalt containing 20% secondary minerals. Titanomagnetite contains exsolution lamellae of ilmenite, and is slightly altered. Rare igneous sulfides are present as inclusions in silicates. Veins of calcite, Fe-oxyhydroxide, and celadonite/nontronite/saponite.

185-801C 37R-5 37-40, 1A **#63** **Unit: 54** **OBSERVER:** **Alt, AS**

ROCK NAME: **Aphyric basalt**
WHERE SAMPLED: **Flow interior**
GRAIN SIZE: **medium grained**
TEXTURE: **intergranular**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	50	55	0.2	5	1.4		euhedral	
Pyroxene	30	36	0.1	2	1		subhedral to anhedral	
Magnetite	5	7	0.1	0.4	0.3		euhedral	
Olivine	0	2			0.4		anhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	15				filling pores and replacing olivine and pyroxene	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1			1.2			

COMMENTS : Dark grey basalt containing 15% secondary phases. Magnetite is slightly altered, and recrystallized igneous sulfide globules are common.

185-801C 37R-5, 109-114, 1D **#64** **Unit: 54** **OBSERVER:** **AS**

ROCK NAME: **Aphyric basalt**
WHERE SAMPLED: **flow interior**
GRAIN SIZE: **medium grained**
TEXTURE:

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	50	55	0.2	2	1		euhedral	
Pyroxene	28	38	0.2	0.6	0.4		subhedral to anhedral	
Magnetite	7	7			0.4		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	15					

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS :

185-801C 37R-6 29-33			#65			Unit: 54	OBSERVER:	Alt, AS
ROCK NAME:	Aphyric basalt							
WHERE SAMPLED:	Flow interior							
GRAIN SIZE:	fine to medium grained							
TEXTURE:								

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								
Plagioclase	52	55	0.2	2	1		euhedral	
Pyroxene	31	38	0.1	1	0.6		subhedral to anhedral	
Magnetite	7	7			0.2		euhedral	

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	10				filling pores and replacing olivine, interstitial material, and pyroxene	
Fe oxide	2				filling pores and replacing olivine, interstitial material, and pyroxene near vein	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey basalt containing 12% secondary minerals. Fe-oxyhydroxide is abundant within 1-2 mm of vein , and disseminated igneous sulfides are common elsewhere. Sample cut by two 0.4 mm calcite veins and by 3 mm vein of celadonite/nontronite + Fe oxide + calcite.

801C-39R-2 25-28, 3			#66			Unit: 55	OBSERVER:	Alt, AS
ROCK NAME	**Aphyric basalt**							
WHERE SAMPLED:	**pillow interior**							
GRAIN SIZE:	**fine grained**							
TEXTURE:	**holocrystalline**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<<1	0.6	0.6	0.6		euhedral	only 1 phenocryst, slightly resorbed
GROUNDMASS								
Plagioclase	50	52	0.05	0.4	0.15		euhedral	
Pyroxene	27	32	0.02	0.1	0.08		subhedral	
Olivine	0	3	0.1	0.2	0.1		euhedral to subhedral	
Magnetite	3	3	0.02	0.2	0.03		euhedral	
interstitial mat. (devetrified glass)	19	10						cryptocrystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	22				replacing olivine, pyroxene and filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.08	0.3	0.2		

COMMENTS : Dark grey basalt with 22% secondary phases. Magnetite is slightly altered. No sulfides observed.

185-801C 42R-2 8-11, 1B		#67	Unit: 57	OBSERVER:	Alt, AS
ROCK NAME:	**aphyric basalt**				
WHERE SAMPLED:	**Flow interior with vein and black halo**				
GRAIN SIZE:	**fine grained**				
TEXTURE:	**holocrystalline, heterogranular (partly slightly glomeroporphyric)**				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								
Plagioclase	50	52	0.07	0.6	0.15		euhedral	
Pyroxene	36	39	0.05	0.2	0.07		subhedral to anhedral	
Olivine	0	?1			0.1		subhedral	not sure if really olivine within interstitial material
Magnetite	4	4			0.02		euhedral	
interstitial mat.	12	4						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	11				filling pores and replacing olivine and interstitial material	
calcite	2				filling vesicles	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.15	0.4	0.15	calcite and saponite	

COMMENTS : Dark grey basalt containing 13% secondary minerals.

185-801C 42R-2 126-128, 11 **#68** **Unit: 58** **OBSERVER:** **Fisk, AS**

ROCK NAME: **Hyaloclastite**
WHERE SAMPLED: **breccia**
GRAIN SIZE: **glassy**
TEXTURE: **breccia**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
olivine	1	1	0.01	0.4	0.1		euhedral quant	Abundance estimates are in glass.
plagioclase	2	2	0.02	0.6	0.2		euhedral laths	oscillatorory zoning in some. Crystal clots up to 1 mm.
pyroxene?	<1				0.55		subhedral	only 1 crystal observed
GROUNDMASS								
sulfide	<<1	<<1	0.04	0.07	0.06		round	Primary sulfides immiscible in glass.
Glass	96	96						not crystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
smectite	6				replacing glass	
calcite	40				cementing glass	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Breccia comprising 60% glass clasts and 40% calcite matrix. Glass is 10% altered to smectite.

185-801C 40R-1 65-67, 1F		#69	Unit: 56	OBSERVER:	Alt, AS
ROCK NAME:	Breccia				
WHERE SAMPLED:	Celadonite rich zone				
GRAIN SIZE:	microcrystalline				
TEXTURE:	Breccia				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
GROUNDMASS								
Plagioclase	40	54			0.08		euhedral laths	
Pyroxene	15	30			0.04		subhedral to anhedral	
Olivine	0	?1			0.04		subhedral	
Magnetite	5	5			0.02		euhedral	
interstitial material	15	10						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
celadonite/nontronite	15				filling pores, replacing olivine and interstital material	
Fe oxide	10				disseminated, filling pores, replacing olivine and interstital material	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Breccia made up of 30% dark grey to brown clasts of basalt, which are 25% altered to secondary phases. Matrix comprises 60% calcite, 20% celadonite-nontronite and 20% Fe-oxyhydroxide.

185-801C 43R-1 102-104, 5			#70			Unit: 58	OBSERVER:	Robin?, AS
ROCK NAME:	**aphyric basalt**							
WHERE SAMPLED:	**Flow interior**							
GRAIN SIZE:	**fine grained, microcrystalline**							
TEXTURE:	**holocrystalline**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	49	50	0.1	0.6	0.3		euhedral	
Pyroxene	28	30	0.04	0.2	0.08		subhedral	
Olivine	0	2	0.1	0.3	0.2		euhedral to subhedral	
Magnetite	3	3					euhedral	
interstitial mat. (devitified glass)	20	15						

SECONDARY MINERALOGY	PERCENT		SIZE (mm) min.	max.	av.		REPLACING / FILLING	COMMENTS
saponite	20						filling pores, replacing olivine and interstitial material	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.		FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.1	0.2	0.12		saponite (mostly plucked from section)	

COMMENTS : Dark grey basalt containing 20% secondary phases. No sulfide minerals observed. Magnetite is fresh to slightly altered.

185-801C 44R-2 59-61, 1B		**#71**			**Unit: 59**	**OBSERVER:**	**Alt, AS**	
ROCK NAME:	**aphyric basalt**							
WHERE SAMPLED:	**Flow Interior**							
GRAIN SIZE:	**fine grained**							
TEXTURE:	**holocrystalline**							

PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm) min.**	**max.**	**av.**	**APPROX. COMP.**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	45	50	0.1	1	0.4		euhedral	
Pyroxene	20	30	0.05	0.4	0.2		subhedral	
Olivine	0	1			0.08		euhedral to subhedral	
Magnetite	1-2	1	<0.02	0.15	0.05		euhedral to subhedral	
interstitial material	34	18						maybe devetrified glass

SECONDARY MINERALOGY	**PERCENT**	**SIZE (mm) min.**	**max.**	**av.**	**REPLACING / FILLING**	**COMMENTS**
saponite	15				replacing olivine and interstital material, filling pores	

VESICLES/ CAVITIES	**PERCENT**	**LOCATION**	**SIZE (mm) min.**	**max.**	**av.**	**FILLING / MORPHOLOGY**	**COMMENTS**

COMMENTS : Dark grey basalt containing 15% secondary minerals. Abundant interstitial material is 50% altered to saponite. Magnetite is fresh to slightly altered. No sulfide minerals observed.

185-801C-45R-1 64-65, 8			#72			Unit: 60	OBSERVER:	AS Alt
ROCK NAME:	**Sparsely plagioclase phyric basalt**							
WHERE SAMPLED:	**Glassy Contact**							
GRAIN SIZE:	**glassy**							
TEXTURE:	**hypocrystalline**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	3	3	0.1	0.8	0.2		euhedral	often plagioclase cluster
Pyroxene	<1	<1	0.05	0.1	0.1		euhedral	
GROUNDMASS								
Glass	96	97						variole occurrence

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	1				filling vesicles, slight replacement of plagioclase phenocrysts	
celadonite					filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	2		0.02	0.15	0.1	filled with celadonite, saponite, sulfide	

COMMENTS : Dark grey rock, 2% secondary phases.

185-801C 45R-2 43-47, 1C		#73				Unit: 60	OBSERVER:	Robin?, AS
ROCK NAME:	**Aphyric Basalt**							
WHERE SAMPLED:	**Pillow interior**							
GRAIN SIZE:	**microcrystalline**							
TEXTURE:	**hypocrystalline**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<1	<<1	0.3	0.85	0.5		euhedral, no laths	highly altered, only 1 cluster observed
GROUNDMASS								
Plagioclase	20	35	0.06	0.4	0.2		subhedral	
Pyroxene	10	25	0.05	0.1	0.05		anhedral	
Magnetite	10	10			<0.05		subhedral	
interstitial material (devitified glass?)	60	30						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	5				replacing olivine and interstital material, filling pores	
pyrite	<1				disseminated, concentrated in 1x3 mm patch, in 5 µm vein.	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<1		0.07	0.15	0.1	saponite	

COMMENTS : Dark grey basalt containing 5% secondary phases.

185-801C 46R-1 10-13, 2B		#74	Unit: 60	OBSERVER:	AS Alt
ROCK NAME:	Aphyric basalt				
WHERE SAMPLED:	Pillow top				
GRAIN SIZE:	microcrystalline to cryptocrystalline				
TEXTURE:	unequigranular				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	52	53	0.05	1	0.5		euhedral	
Pyroxene	25	35	0.1	0.7	0.2		subhedral to anhedral	1 big crystal of 0.7 mm, bigest normal size 0.3 mm
Olivine?	0	1	0.1	0.3	0.2		euhedral to subhedral	
Magnetite	3	3			0.02		euhedral	
interstitial mat. (devitrified glass)	20	8						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	20				replacing olivine, interstitial material, slightly replacing plagioclase and pyroxene, filing pores	
pyrite	<1				disseminated	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey basalt, 20% secondary phases. Rare recrystallized igneous sulfide globules. Titanomagnetite is slightly altered, exhibiting shrinkage crakcs.

185-801C 46R-2 73-79, 6B		#75	Unit: 60	OBSERVER:	Alt, AS
ROCK NAME:	**aphyric basalt**				
WHERE SAMPLED:	**flow interior**				
GRAIN SIZE:	**microcrystalline to cryptocrystalline**				
TEXTURE:	**holocrystalline, heterogranular**				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	52	54	0.05	1.2	0.5		euhedral	
Pyroxene	26	35	0.1	0.3	0.15		subhedral to anhedral	
Olivine?	0	?					euhedral to subhedral	
Magnetite	2	2			<0.02		euhedral	
interstitial mat. (devitrified glass)	20	11						cryptocrystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	20				replacing interstitial material, slightly replacing plagioclase, filling pores.	
pyrite	<1				disseminated, replacing igneous globules	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey basalt, 20% secondary phases.

185-801C 48R-1 46-49, 2B			#76			Unit: 60	OBSERVER:	Alt, AS
ROCK NAME:	**Aphyric basalt**							
WHERE SAMPLED:	**pillow/flow interior**							
GRAIN SIZE:	**microcrystalline to cryptocrystalline**							
TEXTURE:	**seriate**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<<1	0.6	1.4	0.6		euhedral lath	only 4 phenocryst, partly resorbed
GROUNDMASS								
Plagioclase	55	60	>0.05	0.8	0.3		euhedral	plumbose to comb like textures
Pyroxene	24	30	0.05	0.3	0.09		subhedral to anhedral	
Olivine?	0	<1			0.1		euhedral to subhedral	
Magnetite	3	3	<0.02	0.2	0.03		euhedral	
interstitial mat. (devitrified glass)	18	7						cryptocrystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	3				replacing interstitial material, filling pore spaces	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey basalt, 3% secondary minerals. Rare tiny igneous sulfide minerals. Magnetite is slightly altered.

185-801C 48R-2 121-131, 12		#77	Unit: 60	OBSERVER:	Alt, AS, MRF
ROCK NAME:	**Basalt**				
WHERE SAMPLED:	**Chilled pillow/flow margin**				
GRAIN SIZE:	**glassy**				
TEXTURE:	**hypohyaline, porphyritic**				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	2	2	0.03	0.9	0.2		euhedral laths	
Pyroxene	<1	<1	0.02	0.4	0.02		anhedral	
Olivine	<<1	<<1	0.1	0.5	0.4		euhedral to subhedral	only few altered phenocrysts
GROUNDMASS								
Glass	94	96						not crystalline
Magnetite	1	1					subhedral	some cummulates

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	<1				filling vesicles, replacing rare olivine	
smectite	2				replacing glass at pillow rim	
pyrite	<1				disseminated	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	<<1				0.08	filled with saponite	

COMMENTS : Dark grey quenched pillow rim, with 2% secondary minerals.

THIN SECTION:	185-801C 15R-7 80-83, 1E	#78	Unit: 46	OBSERVER:	Alt, AS
ROCK NAME:	Plagioclase phyric basalt				
WHERE SAMPLED:	Pillow interior				
GRAIN SIZE:	microcrystalline				
TEXTURE:	heterogranular, porphyric				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	2	3	0.4	1.3	0.7		euhedral	
GROUNDMASS								
Plagioclase	17	55	0.4	0.1	0.2		euhedral	
Pyroxene	0	30			?		anhedral	
Olivine	0	2			?		subhedral	
Magnetite	3	3			0.02		subhedral	
interstitial material (devitrified glass)		10						

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
Smectite	25				replacing interstitial material, plagioclase, olivine, clinopyroxene, filling pores	
saponite	25				replacing interstitial material, plagioclase, olivine, clinopyroxene, filling pores	
calcite	30				replacing interstitial material, plagioclase, olivine, clinopyroxene, filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS
vesicular	1		0.2	0.6	0.2	saponite, calcite, smectite	

COMMENTS : Green-grey basalt, intensely altered (80% secondary phases), transitional from pale green intensely altered rock to dark grey host rocks. Magnetite is almost completely altered to titanite. Disseminated pyrite is common as small 1-10 µ†98m grains.

185-801C 49M-1 4-6, 1		#79	Unit: 60	OBSERVER:	Alt, AS
ROCK NAME:	Aphyric basalt				
WHERE SAMPLED:	Pillow interior across vein				
GRAIN SIZE:	Microcrystalline, fine grained				
TEXTURE:	seriate				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
	None							
GROUNDMASS								
Plagioclase	50	50	0.1	1.2	0.3		euhedral to subhedral	
Pyroxene	15	17	0.02	0.1	0.06		anhedral	
Oxides	2	2			<0.01		euhedral to subhedral	
Interstitial material	31	31						cryptocrystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	2				filling pores, replacing interstitial material	
pyrite	<1				disseminated in band along vein	
Feoxide	trace				disseminated near vein	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey basalt containing 2% secondary minerals. Calcite + saponite + chalcedony vein cuts sample. Titanomagnetite is unaltered.

185 801C-49M-1 30-33, 3			#80			Unit: 60	OBSERVER:	Alt, AS
ROCK NAME:	**Aphyric basalt**							
WHERE SAMPLED:	**across vein in pillow interior**							
GRAIN SIZE:	**microcrystalline to cryptocrystalline**							
TEXTURE:	**seriate**							

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<1	0.4	0.8	0.6		euhedral	partly altered to saponite
Pyroxene	<<1	<<1	0.4	0.6	0.5		euhedral	only 2 phenocrysts occur together with plagioclase phenocrysts
GROUNDMASS								
Plagioclase	45	48	0.1	0.5	0.2		subhedral laths	
Pyroxene	15	16	0.02	0.1	0.05		subhedral	
Oxides	1	1			<<0.01		euhedral to subhedral	
Interstitial material	34	35						cryptocrystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	4				filling pores, replacing interstitial material and plagioclase phenocrysts	
pyrite	<1				disseminated in band along vein	
Fe oxide					disseminated along vein	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey basalt containing 5% secondary phases. Vein is mostly coarse calcite, plus minor saponite and chalcedony. Titanomagnetite is fresh.

185-801C 50M-1 22-24			**# 81**			**Unit:**	**OBSERVER:**	**Alt**
ROCK NAME:	**Hyaloclastite**							
WHERE SAMPLED:	**interpillow**							
GRAIN SIZE:								
TEXTURE:								

PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm) min.**	**max.**	**av.**	**APPROX. COMP.**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS								
GROUNDMASS								

SECONDARY MINERALOGY	**PERCENT**	**SIZE (mm) min.**	**max.**	**av.**	**REPLACING / FILLING**	**COMMENTS**
Quartz/chalcedony	60				cementing glass	
smectite	40				replacing glass	

VESICLES/ CAVITIES	**PERCENT**	**LOCATION**	**SIZE (mm) min.**	**max.**	**av.**	**FILLING / MORPHOLOGY**	**COMMENTS**

COMMENTS : Altered hyaloclastite, with glass completely altered to smectite (saponite?) and cemented by quartz and chalcedony.

185-801C 50M-1 43-45, 5		#82	Unit: 60	OBSERVER:	Alt, AS
ROCK NAME:	**Aphyric basalt**				
WHERE SAMPLED:	**pillow interior**				
GRAIN SIZE:	**microcrystalline to cryptocrystalline**				
TEXTURE:	**seriate**				

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	max.	av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<1	0.3	0.6	0.4		euhedral	partly altered to saponite
Pyroxene	<<1	<<1			0.4		euhedral	only 1 observed
GROUNDMASS								
Plagioclase	32	32	0.1	0.5	0.2		euhedral to subhedral	
Pyroxene	5	5			0.04		subhedral	
Oxides	<1	<1			<<0.01		euhedral to subhedral	
Interstitial material	61	62						cryptocrystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	max.	av.	REPLACING / FILLING	COMMENTS
saponite	1				replacing interstitial material and plagioclase phenocrysts, and filling pores	
pyrite, marcasite	<1				in 50-100 µm veins with chalcedony and saponite, disseminated in rock along veins	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	max.	av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey rock containing 1% secondary phases. Titanomagnetite is fresh.

185-801C 52M-1 74-77, 4 **#83** **Unit: 60** **OBSERVER:** **Alt, AS**

ROCK NAME: **Aphyric basalt**
WHERE SAMPLED: **pillow interior**
GRAIN SIZE: **microcrystalline**
TEXTURE: **hypocrystalline, granular**

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	APPROX. COMP.	MORPHOLOGY	COMMENTS
PHENOCRYSTS								
Plagioclase	<<1	<1	0.4	1.6	0.5		euhedral	
Pyroxene	<<1	<<1			0.3		euhedral	only 1 together with plagioclase phenocryst observed
GROUNDMASS								
Plagioclase	49	50	0.1	0.25	0.2		euhedral to subhedral	
Pyroxene	14	15	0.02	0.09	0.05		euhedral to subhedral	
Oxides	1	2	<<	0.05	0.02		euhedral to subhedral	
Interstitial material	31	32						cryptocrystalline

SECONDARY MINERALOGY	PERCENT	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	REPLACING / FILLING	COMMENTS
saponite	5				replacing interstitial material, plagioclase phenocrysts, filling pores	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm) min.	SIZE (mm) max.	SIZE (mm) av.	FILLING / MORPHOLOGY	COMMENTS

COMMENTS : Dark grey basalt containing 5% secondary phases. Titanomagnetite is slightly altered.

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
33	13	1	1	0	4	4	594.30			100										100	SM							5	SM 40 CO3 60
33	13	1	2	4.5	7.5	3	594.34																				hydrothermal unit Fe(OH)n SiO2		
33	13	1	3	9	11	2	594.37																				Brecciated sediment		
33	13	1	4	13	21.5	8.5	594.39			96									4	100	SM							2	SM 100
33	13	1	5	25	31	6	594.48																				Rubble		
33	13	1	6	31	33	2	594.54																				Rubble		
33	13	1	7	34.5	40.5	6	594.56			100										100	SM						Large vesicles lined w silica w inner CO3	5	CO3 80 SiO2 20
33	13	1	8	41.5	46.5	5	594.62																				Rubble		
34	14	1	1,2	0	129	129	604.00			100																<5		2	CO3 90 SM 10
34	14	2	1	0	91	91	605.31			99																<5		1	CO3 95 SM 5
35	14	2	2A	91	119	28	606.22			98									2	100	SM					<5	ROCK ONLY SPARSELY PHYRIC	<<1	CO3 100
35	14	2	2B	125	146	21																					SEDIMENT		
37	14	3	3	7.5	27.5	20	606.78			100												15	CLAY			<10	SPARSELY PHYRIC	2	CO3 100
37	14	3	5-8A	31.5	89	57.5	606.98			100												15	CLAY			<10		1	CO3 100
37	14	3	8B-C	89	104	15	607.56			100																<10	INTERPILLOW MATERIAL		
37	14	3	11	126.5	134	7.5	607.71			100																<10		1	CO3 80 SiO2 20
38	14	4	1,-15	0	145.5	145.5	608.16			100												10	SM			<5	SPARSELY PHYRIC		
38	14	5	1,-4	0	56	56	609.62			100																<5			
38	14	5	5	56.5	60.5	4	610.18			100																	RUBBLE W 1 GREEN ROCK (EXOTIC)		
38	14	5	6	63	70.5	7.5	610.22			100										100	SM					<5		1	CO3 100
38	14	5	7	71	89	18	610.30			100										100	SM					<5		1	CO3 90 SM 10
38	14	5	8	90	95	5	610.48			100																<5		0.5	CO3 100
39	15	1	1	0	4	4	613.70																				BRECCIA(?)		
39	15	1	2	4	21	17	613.74	15	85 IP			1		14		1										20	MULTI-COLORED ZONES		
39	15	1	3	22	26	4	613.91	40	60 IP			1		31		3										25			
39	15	1	4	26.5	31	4.5	613.95	80	20 IP			2		62		6										20			
39	15	1	5	31.5	38.5	7	614.00	70	30VB			5		65												20			
39	15	1	6	40	43	3	614.07	25	75 IP			5		15		5										30			
40	15	1	7,-15	43	83	40	614.10																				SEDIMENT		
41	15	1	16A,B	83	105	22	614.50	85	15 IP			5		40	40							50	SM			35		<1	CO3 100
41	15	1	17A,B	106	127	21	614.72	80	20 IP+B	48		2		30								50	SM			30		<1	CO3 100
41	15	1	18	128	132	4	614.93	90	10 IP	80				10												<10		2	CO3 100
41	15	2	1A-D	0	44	44	615.02	95	5 IP	90		1			4											<10			
41	15	2	2	45	52	7	615.46	100		90		1		4												<10			
41	15	2	3	53	57	4	615.53	40	60 IP			6		20	7	7				100	SM	50	SM			25			
42	15	2	4	58	62	4	615.57																				SEDIMENT		
42	15	2	5	63	70.5	7.5	615.61	40	60IP			2		30	4	4						50	SM			30	PORE SPACE FILLED W CO3 +SULPHIDE		
42	15	2	6	70.5	73.5	3	615.69																						
43	15	2	7A-C	73.5	136	62.5	615.72	60	40 IP	50		1		5	4							30?	?			15	DISSEMINATED SULPHIDE	<1	CO3 100
43	15	3	1	0	65	65	616.41	80	20 IP	70		2		4	4							25	SM			10	DISSEMINATED SULPHIDE + PLAG MICROLITES	<1	CO3 100
43	15	3	2	68	76	8	617.06																				RUBBLE		
43	15	3	3A-C	76	113	37	617.14	93	7 IP	93												100	CLAY			<10			
43	15	3	4,-5	113	130	17	617.51																				SEDIMENT		
43	15	4	1	0	131	131	617.71	99	1 IP	99										100	SM					<5		2.5	CO3 70 SM 30
44	15	5	1	0	94	94	619.03	95	5 IP					95												15	PYROXENE SEEN (FRESH) LOTS OF PLAG MICROLITES	2.5	CO3 70 SM 30
45/46	15	6	1A-G	0	139	139	619.98	90	10 IP	70		2		8	10					100	SM	75	SM			15			

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
46	15	7	1A-F	0	109	109	621.38	85	15IP			2		12	11	60										60	TRANSITIONAL BLEACH ZONE PALE G->GN G->G GN	1	CO3 50 SM 50
																											SM VESICLES CLOSE TO CHERT BAND CO3 DISTAL		
47	16	1	1	0	3	3	623.30	100		100												10	SM			<5		2	CO3 100
47	16	1	2A-F	6	31	25	623.33	75	25 IP	70				2	2											<10			
47	16	1	3	31	42	11	623.58	50	50 IP	46				2	2											<10			
47	16	1	4A-G	43	142	99	623.69	100		100																<5		4	CO3 90 SM 10
47	16	2	1A-F	0	126	126	624.74	75	25 B			2			3	70				100	SM	100	SM			20			
49	16	3	1,-5	0	65	65	626.02		100																		HYDROTHERMAL SEDIMENT		
49	16	3	6A-B	65	90	25	626.67	100							50	50				100	SM	100	SM			25		<1	CO3 100
49	16	3	7A-B	91	110	19	626.92	100		95						5										10			
49	16	3	8A-B	112	141	29	627.11	100		100																<5			
49	16	4	1,-9	0	147	147	627.43	100		95		5														10			
49	16	5	1,-15	0	129	129	628.89	90	10 IP	88									2							<10		2	CO3 100
49	17	1	1	0	11	11	632.80	90	10 B	90												5	SM			10		1	CO3 100
49	17	1	2	11	14	3	632.91	90	10 B	90												5	SM			10		1	CO3 100
49	17	1	3	15	17	2	632.94	92	8 B	92									1			5	SM			10		1	CO3 100
49	17	1	4			0	632.96	100		100									2			5	SM			10		1	CO3 100
49	17	1	5	12.5	26	13.5	632.96	65	35 B	65									2			5	SM			10		1	CO3 100
49	17	1	6	26.5	38	11.5	633.10	80	20 B	80									1			5	SM			10		6	CO3 100
49	17	1	7,-9	39	146	107	633.21	100		100												15	SM/PY			<5		4	CO3 70 SM 30
49	17	2	1	0	2	2	634.28	40	60 IP	100									10			10				<5			
49	17	2	2	3	6	3	634.30	100		100												10				<5			
49	17	2	3	7	10	3	634.33	90	10 IP	80									10			10				10		2	CO3 20 SM 80
49	17	2	4	11	17	6	634.36	100		80				20								10				10			
49	17	2	5	17	34.5	17.5	634.42	100		80				20												10			
49	17	2	6	35	40	5	634.60	50	50 G	50									50							<10			
49	17	2	7,13	40.5	147	106.5	634.65	99	1 IP	98				1												10			
49	17	3	1,9	0	116	116	635.78	100		100																<10			
49	17	3	10	116	144	28	636.94	80	20 IP	80																<10		1	CO3 100
50	17	4	1	0	4	4	637.22																						
50	17	4	2,-8	4	128	124	637.26	85	15 IP	85																<5		<1	CO3 100
50	17	4	9	129	140	11	638.50																				R		
50	17	5	1,-4	0	37	37	638.62	100		100																<2		<1	CO3 90 SM 10
50	18	1	1	0	4	4	642.20	100		100																<2		<1	CO3 100
50	18	1	2	4	9	5	642.24	100		100									1							<2	PILLOW RIM W HYALOCLASTITE		
50	18	1	3	10.5	16	5.5	642.29	100		90									10							<2	4 PIECES		
50	18	1	4	16	19.5	3.5	642.35	100		100									15							<2	HYALOCLASTITE RIM		
50	18	1	5	19.5	31.5	12	642.38	70	30 AG	70																<2			
50	18	1	6	31.5	36	4.5	642.50	80	20AG	80									2							<2			
50	18	1	7	36	40	4	642.55	100		100									<2							<2	3 PIECES	<1	CO3 50 SM 50
50	18	1	8	40	46	6	642.59	98	2 AG	98									2							<2	SOME FRESH PLAGIOCLASE		
50	18	1	9	46.5	50	3.5	642.65	98	2 AG	98									<2							<2	UNEVEN DISTRIBUTION OF VESICLE INFILL		
50	18	1	10	50	98	48	642.68	98	2 AG	98										100	SM					<2	PLAG MICROLITES ARE FRESH		
50	18	1	11	99	103	4	643.16	95	5 AG	95									5							<2	4 PIECES		
50	18	1	12	104	107	3	643.20	95	5 AG	95									5							<2			
50	18	1	13	107.5	111.5	4	643.23	100		100									<1							<2			
50	18	1	14	111.5	117	5.5	643.27	40	60 AG	40									40							<10			
50	18	1	15	118	121	3	643.33																				RUBBLE		
50	18	1	16	121	134	13	643.36	100		100																<5	ALL CHUNKS OF PILLOW RIM		
50	18	1	17	135	141.5	6.5	643.49	100		85								15								<5	FRESH PLAG	<1	CO3

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
50	18	1	18	142	147	5	643.55	100		85								15								<5	2 PIECES FRESH MICROLITES OF PLAG		
50	18	2	1	0	7	7	643.70	99		70								29								<2	PLAG MICROLITES ARE FRESH		
50	18	2	2	8	11	3	643.77	100		100																<2	5 PIECES		
50	18	2	3	13	16	3	643.80	100		100																<2			
50	18	2	5	21	32.5	11.5	643.83	95	5 AG	95																<2			
50	18	2	6	33.5	76	42.5	643.95	95	5 AG	95																<2	FRESH PLAG MICROLITES/ FINE GRAINED MARGIN		
50	18	2	7	77	114	37	644.37	95	5 AG	95																<2			
50	18	2	8,-13	116	147	31	644.74	100		100										100	SM					<2	MOSTLY RUBBLE		
50	18	3	1,-4	0	21	21	645.20	100		100																<2	MOSTLY RUBBLE		
50	19	1	1	0	3	3	651.70	100		100																<5			
50	19	1	2	3	12	9	651.73	100		100																<3			
50	19	1	3	12	29	17	651.82	100		100																<2			
50	19	1	4,-13	29	148	119	651.99	100		100										100	SM					<2		<<1	CO3 20 SM 80
50	19	2	1,-4	0	28	28	653.19		100 AG	100									60							95	HYALOCLASTITE	<0.5	CO3
50	19	2	5,-11	28.5	120	91.5	653.47	99	1 AG	99									1							<10			
50	19	3	1,15	0	86	86	654.39	100		100																<10		<0.5	CO3 50 SM 50
50	20	1	1,-4	0	12	12	660.70	100		100																			
50	20	1	5	13	17	4	660.82	100		100																<5	FRESH PLAG MICROLITES		
50	20	1	6	18	26.5	8.5	660.86	95	5 IP	95																<5			
50	20	1	7	27	61.5	34.5	660.95	100		100																<5	BIGGER VESICLES TOWARDS BASE	<1	CO3 100
50	20	1	8	62	67	5	661.29	80	20 IP	80										100	SM					<5	OLIVINE CLOSE TO RIM SHOT		
50	20	1	9	68.5	78	9.5	661.34	100		100										100	SM					<10	FRESH PLAG MICROLITES		
50	20	1	10	80	90	10	661.44	100		100										100	SM					<10			
50	20	1	11,-16	91	138	47	661.54	100		100									<1	100	SM					<5		1	CO3 100
50	20	1	17	138	140	2	662.01	40	60 HL	30									10							<10			
50	20	2	1	0	106	106	662.12	100		100																<5			
50	20	2	3,-6	109	128	19	663.18	30	70	30									10							5	HYALOCLASTITE		
50	20	2	7	130	134	4	663.37	100		100																<5			
50	20	2		135	150	15	663.41																				RUBBLE		
50	20	3	1	0	8	8	663.62																				RUBBLE		
50	20	3	2	8	18	10	663.70	100																		<5		<1	CO3 100
50	20	3	3,-5	18	35	17	663.80																				RUBBLE		
50	20	3	6	35	39	4	663.97	100		100										100	SM								
50	20	3	7	40	47	7	664.01	100		100										100	SM								
50	21	1	1	0	3	3	670.00	100		100																<5			
50	21	1	2	4	7	3	670.03	100		100																<5			
50	21	1	3	9	140	131	670.06	100		100																<5		<<1	CO3 50 SM 50
50	21	2	1,-5	0	68	68	671.43	100		100										100	SM					5	V.SMALL AMOUNTS OF OLIVINE +PLAG	<1	CO3 100
50	21	2	6	69	129	60	672.11	90	10 IP	90										100	SM					<3	OLIVINE V.SPARSE	1	CO3 100
50	21	3	1	0	76	76	672.65	100		100										100	SM					2		<1	CO3 100
50	21	3	2	76	79	3	673.41	100		100																2	FINE GRAINED		
50	21	3	3	80	86	6	673.44	100		100										100	SM					2			
50	21	3	5,-8	92	110	18	673.50	50	50	50										100	SM					2		<<1	CO3 100
50	22	1	1	0	10	10	673.60																				HYDROTHERMAL		
50	22	1	2	10	28.5	18.5	673.70	100		100										100	SM					<5	SOME PYROXENE	<1	CO3 100
50	22	1	3	29	40	11	673.89	100		100										100	SM					<5		1	CO3 100
50	22	1	4	46	94	48	674.00	100		100										100	SM					<5			
50	22	1	5	95	104.5	9.5	674.48	85	15 IP	85										100	SM					<2	PYRITE AGGLOMERATIONS		
50	22	1	6	104.5	110.5	6	674.57																				MARBLE		
50	22	1	7	110.5	119	8.5	674.63	100		100										100	SM					<5	FRESH PLAG		
50	22	1	8	119	124	5	674.72																				SEDIMENT		

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
50	22	2	1	0	26	26	674.84	80	20 IP	80										100	SM					<5			
50	22	2	2	26	117	91		100		100										100	SM					<5	SULPHIDE FILLED GASHES		
50	22	2	3	117	121.5	4.5																					RUBBLE		
50	22	2	4	122	149	27																					RUBBLE		
50	22	3	1	0	5	5	676.34	100		100																			
50	22	3	2	6.5	13	6.5	676.39	100		95									5							<5			
50	22	3	3	14	31	17	676.46																				RUBBLE		
50	22	3	4	30.5	45	14.5	676.63	100		100												50	SM			<2			
50	22	3	5	45	53	8	676.77	100		100										100	SM					<5			
50	22	3	6	55	70	15	676.85	100		100										100	SM					<5			
50	22	3	7	71	87	16	677.00	100		100										100	SM					<5			
50	22	3	8	88.5	96	7.5	677.16	100		100										100	SM					<5			
50	22	3	9	97.5	115	17.5	677.24																				RUBBLE		
50	22	3	10	115	122	7	677.41	100		100										100	SM					<5		<1	SM 100
50	23	1	1	0	8.5	8.5	681.90	100		100																<2	FRESH PLAG		
50	23	1	2	9	12	3	681.99	100		100																<2			
50	23	1	3	12	61.5	49.5	682.02	100		100									0.5	100	SM					<2	GLASS 50/50 FRESH/ALTERED		
50	23	1	4	63	69	6	682.51	100		100										100	SM					<2			
50	23	1	5	69	73	4	682.57	100		100										100	SM					<2			
50	23	1	6	74	89	15	682.61	100		100										100	SM					<2			
50	23	1	7	90	105	15	682.76																				RUBBLE		
50	23	1	8	105	108	3	682.91	100		100										100	SM					<2			
50	23	1	9	109	116	7	682.94	100		100										100	SM					<2	FEW PLAG		
50	23	1	10	117.5	126	8.5	683.01																				RUBBLE		
50	23	2	1	0	41	41	683.15	100		100										100	SM					2			
50	23	2	2	45	52.5	7.5	683.56	100		100										100	SM					2			
50	23	2	3	53	59	6	683.64	100		100										100	SM					2	FRESH GLASS		
50	23	2	4	59	70	11	683.70																				RUBBLE		
50	23	2	5	70	78	8	683.81	100		100										100	SM					2			
50	23	2	6	79	92	13	683.89	100		100										100	SM					2			
50	23	2	7	92	96	4	684.02	100		100										100	SM					2			
50	23	2	8	98	109	11	684.06	100		100										100	SM					2			
50	23	2	9	110	112	2	684.17	100		100										100	SM					2			
50	23	2	11	113	117	4	684.19																				RUBBLE		
50	23	2	12	117	126	9	684.23	100		100										100	SM					2			
50	23	2	13	127	143	16	684.32																						
50	23	3	1	0	10	10	684.58	100												100	SM					2			
50	23	3	2	11	23	12	684.68	100												100	SM					2			
50	23	3	3	24	48	24	684.80	100												100	SM					2			
50	23	3	4	50	55	5	685.04	100																					
50	23	3	5	55	64	9	685.09	100											0.5							2	GLASS 50/50 FRESH/ALTERED		
50	23	3	6	65	84	19	685.18	100																		2			
50	23	3	7+8	84.5	97	12.5	685.37																				RUBBLE		
50	23	3	9	97	117	20	685.50	100														15	SM			2			
50	23	3	10	120	122	2	685.70	100																		2			
50	23	3	11	125	128	3	685.72	100												100	SM					2			
50	23	3	12	130	140	10	685.75	100												100	SM					2			
50	23	4	1	0	11	11	685.98	100		100										100	SM					2			
50	23	4	2	14	40	26	686.09	100		100										100	SM					2			
50	23	4	3	43	67	24	686.35	100		100										100	SM					2			
50	23	4	4	69	78.5	9.5	686.59	70	30	70										100	SM					2			
50	23	4	5	81	92	11	686.69																				RUBBLE		
50	23	4	6	93	102	9	686.80	100		100										100	SM					2		<1	CO3

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
50	24	1	1	0	2.5	2.5	691.30	100		100										100	SM					2			
50	24	1	2	2.5	22.5	20	691.33	100		100										100	SM					2			
50	24	1	3	23	27	4	691.53	100		100										100	SM					2			
50	24	1	4	28	33	5	691.57	100		99									1	100	SM					2			
50	24	1	5	33	39.5	6.5	691.62	100		100										100	SM					2			
50	24	1	6	40	44	4	691.68	100		100										100	SM					2			
50	24	1	7	45	55.5	10.5	691.72	100		100										100	SM					2			
50	24	1	8	56	76.5	20.5	691.83	100		100										100	SM					2			
50	24	1	9	78	91	13	692.03	100		100										100	SM					2			
50	24	1	10	91	96	5	692.16	100		100										100	SM					2			
50	24	1	11	97	112	15	692.21	100		100										100	SM					2			
50	24	1	12	112	115.5	3.5	692.36																						
50	24	1	13	116	129.5	13.5	692.40	100		100										100	SM					2			
50	24	1	14	130	132	2	692.53	100		100										100	SM					2			
50	24	2	1	0	24	24	692.63	100		100										100	SM					2	FRESH PLAG		
50	24	2	2	25	83	58	692.87	100		100										100	SM					2	FRESH PLAG		
50	24	2	3,-12	84	132	48	693.45	60	40	60									10	100	SM					2	PILLOW RIM BRECCIA		
50	24	2	13	132	136	4	693.93																				RUBBLE		
50	24	2	14	136	142	6	693.97	100		100										100	SM					2			
50	24	2	15	142	148.5	6.5	694.03	100		100										100	SM					2			
50	24	3	1	0	8	8	694.13	100		100										100	SM					2			
50	24	3	2	9	31.5	22.5	694.21	100		100										100	SM					2			
50	24	3	3	33	53	20	694.44	100		100									1	100	SM					2	UNKNOWN BROWN MINERAL IN VESICLES	5	CO3 40 SM 40 UK 20
50	24	3	4	55	61	6	694.64																				INTER PILLOW SEDIMENT		
50	24	3	5	62	67	5	694.70	100		100										100	SM					2			
50	24	3	6	67	80	13	694.75	100		100										100	SM					2			
50	24	3	7	81	83	2	694.88	100		100										100	SM					2	LARGE PLAG		
50	24	3	8	84	92	8	694.90	100		100										100	SM					2	5% FRESH GLASS		
50	24	3	9	93	97	4	694.98	100		100										100	SM					2	1% FRESH GLASS		
50	24	3	10	98	100	2	695.02	100		100										100	SM					2			
50	24	3	11	100	110	10	695.04	100		100										100	SM					2			
50	24	3	12	111	117	6	695.14																						
50	24	3	13	117	126	9	695.20	100		100										100	SM					2			
50	24	3	14	129	140	11	695.29	100		100										100	SM					2			
50	25	1	1	0	17	17	700.70	100		100										100	SM	10	SM			2		1	CO3 100
50	25	1	2,-4	18	28	10	700.87																				RUBBLE		
50	25	1	5	49	56	7	700.97	100		100										100	SM	10	SM			2		1	CO3 100
50	25	1	6	56	69	13	701.04																				RUBBLE		
50	25	1	7	69	85	16	701.17	100		100										100	SM	10	SM			2	OLIVINE BUTTERFLY (SM)	1	CO3 100
50	25	1	8	85	87	2	701.33	100		100										100	SM					2		1	CO3 100
50	25	1	9	87	107	20	701.35	100		100										100	SM					2		1	CO3 100
50	25	1	10	108.5	111	2.5	701.55	100		100										100	SM					2		1	CO3 100
50	25	1	11	111	115	4	701.58																				RUBBLE		
50	25	1	12	115	119	4	701.62	100		100										100	SM					2		1	CO3 100
50	25	1	13	120	126	6	701.66	100		100										100	SM					2		1	CO3 100
50	25	1	14	127	134.5	7.5	701.72																				RUBBLE		
50	25	1	15	134	145	11	701.79	100		100										100	SM					2		1	CO3 100
50	26	1	1	0	7	7	710.20																				RUBBLE		
50	26	1	2	7	13	6	710.27	50	50 IP	50										100	SM					5			
50	26	1	3	14	20.5	6.5	710.33	65	35 IP	65										100	SM					3			
50	26	1	4	23.5	48	24.5	710.40	80	20 IP	80										100	SM					2			
50	26	1	5	49	66	17	710.64																				RUBBLE		

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
50	26	1	6	66	69	3	710.81	100		100										100	SM					2			
50	26	1	7	70	75	5	710.84	100		100									5	100	SM					2	5% FRESH GLASS		
50	26	1	8	76	93	17	710.89	100		100										100	SM					2			
50	26	1	9	95	104	9	711.06	100		100										100	SM					2			
50	26	1	10	105	112	7	711.15	100		100									3	100	SM					2			
50	26	1	11	112	123	11	711.22	100		100										100	SM					2			
50	26	1	12	124	133	9	711.33																				RUBBLE		
50	26	2	1	0	28	28	711.53	100		100										100	SM					5			
50	26	2	2	28	38	10	711.81	100		100										100	SM					5			
50	26	2	3	39.5	48	8.5	711.91																				RUBBLE		
50	26	2	4	48	57	9	712.00	100		100										100	SM					5			
50	26	2	5	57.5	68	10.5	712.09																				RUBBLE		
50	26	2	6	68	71	3	712.19	100		100										100	SM					5			
50	26	2	7	72	84.5	12.5	712.22	100		100										100	SM					5	DISSEMINATED SULPHIDE		
50	26	2	8	85	97	12	712.35																				RUBBLE		
50	26	2	9	97	111	14	712.47	100		100										100	SM					5		<<1	CO3 100
50	26	2	10	113	116	3	712.61	100		100										100	SM					3			
50	26	2	11	120	130	10	712.64																				RUBBLE		
50	27	1	0-3	0	48	48	719.70	100		100										100	SM					5	SM INFILLING MIAROLITIC VOIDS	<<1	CO3 100
50	27	1	4	50	101	51	720.18	92	8 IP	92										100	SM					5		<<1	CO3 100
50	27	1	5	102	117	15	720.69	100		100										100	SM					5		10	CO3 70 SM 30
50	27	1	6	118	120	2	720.84																				RUBBLE		
50	27	1	7	120	127	7	720.86	50	50 IP	100										100	SM					5			
50	27	2	1	0	23	23	720.98	100		100										100	SM					5	SM INFILLING MIAROLITIC VOIDS	5	CO3 100
50	27	2	2	24	123	99	721.21	100		100										100	SM					5			
50	27	2	3	123	126	3	722.20																						
50	27	2	4	126	130	4	722.23	100		100										100	SM					5			
50	27	2	5	130	134	4	722.27	100		100										100	SM					5			
50	27	2	6	134	137.5	3.5	722.31	100		100										100	SM					5			
50	27	2	7	138	145	7	722.35	100		100										100	SM					5			
50	27	3	1,-4	0	19	19	722.48	50	50 IP	50									45	100	SM					5	5% FRESH GLASS 45% HYALOCLASTITE		
50	27	3	3	19	33	14	722.67	100		100										100	SM					5		<1	CO3 100
50	27	3	4	35	70	35	722.81	100		100										100	SM					5			
50	27	3	5	72	75	3	723.16																						
50	27	3	6	75	80	5	723.19	100		100										100	SM					5			
50	27	3	7	81.5	129	47.5	723.24	100		100										100	SM					5			
50	27	4	1	0	141	141	723.78	100		100										100	SM					2			
50	27	5	1	0	15	15	725.22	100		100										100	SM					5			
50	27	5	2,-5	17	50	33	725.37	100		100										100	SM					5			
50	27	5	6	50	57	7	725.70	100		100										100	SM					5			
50	27	5	7	58	69	11	725.77	100		100										100	SM					5			
50	27	5	8	70	90	20	725.88	100		100										100	SM					5			
50	28	1	1	0	87	87	728.70	100		100										100	SM					<10			
50	28	1	2	88	102	14	729.57																						
50	28	1	3	102	104	2	729.71	100		100										100	SM					<10			
50	28	1	4,-5	106	114	8	729.73	90	10 G	90									5	90	SM					<10	FRESH GLASS OM FRACTURES		
50	28	1	6	114	117	3	729.81	100		100										100	SM					<10			
50	28	1	7	119	132	13	729.84	100		100										100	SM					<10			
50	28	2	1	1	65	64	730.04	100		100										100	SM						SOME PYRITE		
50	28	2	2	66	75	9	730.68	50	50 HY	50									25	100	SM						GREEN MIN. W. BEIGE/ORANGE MIN. UK		
50	28	2	3	76	81	5	730.77	60	40 HY	60									5	100	SM								

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
50	28	2	4	81	86	5	730.82	40	60 HY	40									5	100	SM								
50	28	2	5	86.5	93	6.5	730.87	100	100	100										100	SM								
50	28	2	6	94	97	3	730.94	80	20 HY	80									1.5	100	SM						15% CALCITE	3	CO3 100
50	28	2	7	98	106	8	730.97	55	45 HY	55									20	100	SM						TOP OF HYALOCLASTITE SEQUENCE		
50	28	2	8	106	117	11	731.05	70	30 HY	70									3	100	SM							3	CO3 100
50	28	2	9	117	133.5	16.5	731.16	80	20 B	80										100	SM						INSITU BRECCIATION		
50	28	2	10	134.5	149	14.5	731.32	100		100										100	SM						BOTTOM OF HYALOCLASTITE SEQUENCE	<1	CO3 100
50	28	3	1	0	35	35	731.54	99	1 G	99									0.5	100	SM					<10		<1	CO3 100
50	28	3	2,-5	37	67	30	731.89	50	50 HY	50									15	100	SM					<15	HYALOCLASTITE 10% CO3 40% GLASS		
50	28	3	6	67	71.5	4.5	732.19	100		100										100	SM					<10		<1	CO3 100
50	28	3	7	71.5	85	13.5	732.24	100		100										100	SM					<10		<1	CO3 100
50	28	3	8	85.5	89.5	4	732.37																				BIO SAMPLE MISSING		
50	28	3	9	89.5	94	4.5	732.41																				RUBBLE		
50	28	3	10	94	99	5	732.46	100		100										100	SM					<10			
50	28	3	11	99	112	13	732.51	100		100										100	SM					<10			
50	28	3	12	112	118	6	732.64	100		100										100	SM					<10			
50	28	3	13	118	124.5	6.5	732.70																				RUBBLE		
50	28	3	14	125	131	6	732.76	100		100										100	SM					<10			
50	28	3	15	133	142	9	732.82																				RUBBLE		
50	28	3	16	142	149	7	732.91	100		100										100	SM					<10		<1	SM 100
51	29	1	1	0	17.5	17.5	737.90	100		100										100	SM						FRESH PLAG MICROLITES		
51	29	1	2	20	32	12	738.08																				RUBBLE		
51	29	1	3	32.5	38.5	6	738.20	100		100										100	SM					5	V.FINE GRAINED	<1	SM 100
51	29	1	4	39	58	19	738.26	100		100										100	SM					5	FRESH PLAG MICROLITES		
51	29	1	5	59	70	11	738.45	100		100										100	SM					5			
51	29	1	6	70	80	10	738.56	100		100										100	SM					5			
51	29	1	7	80.5	89	8.5	738.66																				RUBBLE		
51	29	1	8	89	94	5	738.74	100		100										100	SM					5			
51	29	1	9	94	103.5	9.5	738.79	100		100										100	SM					5			
51	29	1	10	105	119	14	738.89	100		100										100	SM					5	V.DARK		
51	29	1	11	120	130.5	10.5	739.03	100		100										100	SM					5		<<1	SM 100
51	29	1	12,-14	132.5	140.5	8	739.13	100		100										100	SM					5			
51	29	2	1	0	18	18	739.35																				RUBBLE		
51	29	2	2	18	27	9	739.53	100		100										100	SM					5			
51	29	2	3	28	36.5	8.5	739.62	100		100										100	SM					5		2	CO3 35 SM 65
51	29	2	4	38	48	10	739.71																				RUBBLE		
51	29	2	5	48	54	6	739.81	100		100										100	SM					5		2	CO3 35 SM 65
51	30	1	1	0	74	74	747.30	100		100										100	SM					5		1	CO3 50 SM 50
51	30	1	2	78	139	61	748.04	100		100										100	SM					5		1	CO3 50 SM 50
51	30	2	1	2	68	66	748.74	100		100										100	SM					5		1	CO3 50 SM 50
51	30	2	2	73	78	5	749.40	100		100										100	SM					5		1	CO3 50 SM 50
51	30	2	3	78	141	63	749.45	100		100										100	SM					5		1	CO3 50 SM 50
51	30	3	1,-6	0	129.5	129.5	750.06	100		100										100	SM					5		1	CO3 50 SM 50
51	30	4	1,-3	0	68	68	751.38	100		100										100	SM					5		1	CO3 50 SM 50
51	30	4	4	70	78	8	752.06																				RUBBLE		
51	30	5	1	0	67.5	67.5	752.16	100		90										100	SM					10	10% MIAROLITIC CAVITIES	10	CO3 50 SM 50
51	30	5	2	68.5	81.5	13	752.84	100		100										100	SM					5		<<1	CO3 100
51	30	5	3	83	95	12	752.97	100		100										100	SM					5			
51	30	5	4	97	107.5	10.5	753.09	100		100										100	SM					5		<<1	CO3 50 SM 50
51	30	5	5	108.5	124	15.5	753.19	100		100										100	SM					5			
51	30	5	6	125	135	10	753.35	75	25 IP	70		5								100	SM					10			

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
51	30	5	7	136	147.5	11.5	753.45	95	5 IP	95										100	SM					10			
51	30	6	1	0	8.5	8.5	753.66	100		100										100	SM								
51	30	6	2,-4	8.5	27	18.5	753.75	100		100										100	SM								
51	30	6	5	28	37.5	9.5	753.93	100		100										100	SM								
51	30	6	6	38	45	7	754.03																				RUBBLE		
51	31	1	1	0	6	6	756.60																				RUBBLE		
51	31	1	2	6	10	4	756.66	100		100										100	SM					5			
51	31	1	3	10	16	6	756.70	100		100										100	SM					5			
51	31	1	4	17.5	20.5	3	756.76																				RUBBLE		
51	31	1	5	20.5	27	6.5	756.79	100		100										100	SM					5			
51	31	1	6	28	30	2	756.86	100		100										100	SM					5			
51	31	1	7	31	50	19	756.88	80	15 IP	80										100	SM					10	5% MIAROLITIC CAVITIES	5	SM 100
51	31	1	8	51	54	3	757.07	100		100										100	SM					5	5% MIAROLITIC CAVITIES	5	CO3 100
51	31	1	9,-10	55	128	73	757.10	100		100										100	SM					5			
51	31	2	1,-3	0	125	125	757.90	100		100										100	SM								
51	31	3	1,-7	0	140	140	759.18	100		100										100	SM								
51	31	4	1,-3	0	144	144	760.59	100		100										100	SM								
51	31	5	1,-2	0	129	129	762.04	100		100										100	SM						V.DARK GRAY HALO ON VEIN (2F) 10MM		
51	31	6	1	0	138	138	763.34	100		100										100	SM								
51	31	7	1	0	84	84	764.74	100		100										100	SM						LARGE VEIN HALO PIECE 1 (15-20MM)		
51	31	7	2,-6	84	147	63	765.58	100		100										100	SM								
51	32	1	1	0	29	29	766.30	100		100										100	SM						APHYRIC WITH OCCASIONAL AGGLOMERAPHYRIC PLAG + PYX	<<1	CO3 100
52	32	1	2	31	40	9	766.59	90	10 IP	90									2.5								IP MATERIAL IN VESICLES		
52	32	1	3	41	44	3	766.68	100		100										100	SM								
52	32	1	4	45	48	3	766.71	100		100										100	SM								
52	32	1	5	49.5	53	3.5	766.74	100		100									5								INGESTED FLOW EDGE MATERIAL		
52	32	1	6	54	56	2	766.78	100		100																			
52	32	1	7	57.5	70	12.5	766.80	100		100																			
52	32	1	8	71	81	10	766.92	100		100																			
52	32	1	9	82.5	87	4.5	767.02		100 HY										48								INGESTED FLOW EDGE MATERIAL		
52	32	1	10	88.5	95	6.5	767.07	50	50 HY	50									30								INGESTED FLOW EDGE MATERIAL		
52	32	1	11	96	107	11	767.13	100		100																	APHYRIC WITH OCCASIONAL AGGLOMERAPHYRIC PLAG + PYX		
52	32	1	12	109	120.5	11.5	767.24	100		100																			
52	32	1	13	121	127	6	767.36	90	10 HY	90									5								INGESTED FLOW EDGE MATERIAL		
52	32	1	14	128	131	3	767.42	100		100																			
52	32	1	15	133	149	16	767.45																						
52	32	2	1	0	12	12	767.99	85	15 B	85									7								INSITU BRECCIA		
52	32	2	2	13	26.5	13.5	768.11	70	30 B	80										100	SM						BRECCIA		
52	32	2	3	30	37	7	768.25	80	20 B	80																	BRECCIA		
52	32	2	4	39	49.5	10.5	768.32																				RUBBLE		
52	32	2	5	49.5	52	2.5	768.42	100		100																			
52	32	2	6	54	62	8	768.45	100		100										100	SM							<<1	CO3 100
52	33	1	1	0	6.5	6.5	775.70	100		100										100	SM					5		1	CO3 100
52	33	1	2	7.5	27.5	20	775.77	100		100										100	SM					5		1	CO3 100
52	33	1	3	28.5	43	14.5	775.97																				RUBBLE		
52	33	1	4	43	48	5	776.11	90	10	90									100							10			
52	33	1	5	49	54	5	776.16	100		100																5			
52	33	1	6	55	61	6	776.21																				RUBBLE		
52	33	1	7A-B	61.5	76	14.5	776.27	100		100																5			
52	33	1	7C	76	83.5	7.5	776.42	100		80		20														10			

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
52	33	1	8	85.5	101	15.5	776.49	100		95		5														7			
52	33	1	9	102	105	3	776.65	100		100																5		1	SM 75 PY 25
52	33	1	10	107	114	7	776.68	100		100																5		1	SM 100
52	33	1	11	115	120	5	776.75																				RUBBLE		
52	33	1	12	120	129	9	776.80	100		100																5		1	SM 75 PY 25
53	33	2	1	1	4	3	776.99	100		100																5		1	SM 100
53	33	2	2	4	8	4	777.02	100		100																5		1	SM 100
53	33	2	3	8	11.5	3.5	777.06	100		100																5		1	SM 100
53	33	2	4	12	19	7	777.10	100		100																5		1	SM 100
53	33	2	5	19	24	5	777.17																				RUBBLE		
53	33	2	6	24	32	8	777.22	100		100																5	2 PIECES	1	SM 100
53	33	2	7	35	46	11	777.30	100		95									5							5		1	SM 100
53	34	1	1	0	98	98	785.30	100		99		0.5	0.5													10		<1	SM 100
53	34	1	2	100	105	5	786.28	100		100																10		<1	SM 100
53	34	1	3	105.5	123	17.5	786.33	100		90		5	5													10	V.DARK GREY		
53	34	2	1	0	68.5	68.5	786.54	99	1 IP	91		3.5	3.5						2							10	PILLOW W. COMPLEX HALO	<1	SM 75 PY 25
53	34	2	2	70	105	35	787.23	100		95		1.5	1.5						2							10	PILLOW W. COMPLEX HALO		
53	34	2	3	109	146	37	787.58	100		99		0.5	0.5													10	HALO AROUND MIAROLITIC CAVITY	1	CO3 50 SM 50
53	34	3	1	1	21	20	788.01	100		99		0.5	0.5													5		<1	SM 100
53	34	3	2	22	30	8	788.21	100		100																5		<1	SM 100
53	34	3	3	32	39	7	788.29	100		100																5			
53	34	3	4	40	95	55	788.36	100		88		6	6													5	CHILL @ BOTTOM		
53	34	3	5	97	104	7	788.91	100		100																5			
53	34	3	6	104	115	11	788.98	100		100																5		<1	PY 100
53	34	3	7	115	124.5	9.5	789.09	100		100																5	FRESH PLAG	<1	SM 75 PY 25
53	34	3	8	128	147	19	789.19	100		100																5		<1	SM 100
53	34	4	1	0	14	14	789.51																						
53	34	4	2	14	22.5	8.5	789.65	100		100																5		<1	SM 100
53	34	4	3	22.5	29	6.5	789.74	100		100																5		<1	SM 100
53	35	1	1	0	3.5	3.5	794.90																						
53	35	1	2	5	24	19	794.94	100		100																		<1	SM 75 PY 25
53	35	1	3	25.5	41	15.5	795.13	100		100																		<1	SM 75 PY 25
53	35	1	4	42	47	5	795.28	100		100																		<1	SM 75 PY 25
53	35	1	5	48.5	56.5	8	795.33	100		100																		<1	SM 75 PY 25
53	35	1	6	56.5	63	6.5	795.41	100		100																		<1	SM 75 PY 25
53	35	1	7	65	134.5	69.5	795.48	100		95		2.5	2.5															<1	CO3 70 SM 25 PY 5
53	35	2	1	0	45	45	796.27	100		100																5		<1	SM 100
53	35	2	2	47	50	3	796.72	100		100																5			
53	35	2	3	50	53	3	796.75	100		100									2							5			
53	35	2	4	53.5	74	20.5	796.78	100		100																5		<1	SM 100
53	35	2	5	76	127.5	51.5	796.99	100		100								1	1							5			
53	35	2	6	130.5	137	6.5	797.50																				RUBBLE		
53	35	3	1	0	30	30	797.62	100		100								1	2							10	DOUBLE BROWN GREEN HALO		
53	35	3	2	32	54.5	22.5	797.92	100		100																10			
53	35	3	3	58	64	6	798.15																				RUBBLE		
53	35	3	4	64.5	78	13.5	798.21	100		98		0.5	0.5					1								10	DARK HALO		
53	35	3	5	78	87	9	798.34	100		100																5			
53	35	3	6	87	146	59	798.43	100		100																5		<1	CO3 50 SM 50
53	35	4	1	0	62	62	799.90	100		100										100	SM								
53	35	4	2	63	74	11	800.52																						
53	35	4	3	75	95	20	800.63	100		95								5		100	SM								

Leg 185 HOLE 801C ALTERATION LOG

Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	Rock Color/Alteration Type: % Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	Phenocrysts: Olivine % Alt	Olivine 2nd min	Plagioclase % Alt	Plagioclase 2nd min	Pyroxene % Alt	Pyroxene 2nd min	Gms % Alt	Comments	Vesicles (%)	Vesicles Minerals and %
53	35	4	4	95	110	15	800.83																						
53	35	4	5	110	127	17	800.98	100		100										100	SM								
53	35	4	6	128	142	14	801.15																						
53	35	4	7	142	149	7	801.29	100		100										100	SM								
53	36	1	1	0	5	5	804.10	80	20 B	75								5								10			
53	36	1	2	5	9	4	804.15																			10			
53	36	1	3	9	34	25	804.19	100		100																10			
53	36	1	4	35.5	123.5	88	804.44	100		100										100	SM					10			
53	36	1	5	127.5	133	5.5	805.32	100		100										100	SM					10			
53	36	2	1	0	37	37	805.44	100		100																10	MIAROLITIC VOIDS	4	SM 60 PY 40
53	36	2	2	38	45	7	805.81	100		100																5			
53	36	2	3	47	51	4	805.88	100		100																5			
53	36	2	4	52	134	82	805.92	100		100																5	BROKEN PILLOW TOP		
53	36	3	1	0	5	5	806.77																						
53	36	3	2	5	26	21	806.82	100		95		2.5	2.5					1								10			
53	36	3	3	26	42	16	807.03	100		95		2.5	2.5					1								10			
53	36	3	4	44.5	57	12.5	807.19	100		95		2.5	2.5													10			
53	36	3	5	57	71	14	807.32																						
53	36	3	6	71	76	5	807.46	100		100																10			
53	36	3	7	76	97	21	807.51	70	30 B	65								5								12	CHALCEDONY + CELADONITE MATRIX?		
53	36	3	8	98	105.5	7.5	807.72																						
53	36	3	9	106	125	19	807.79	100		100																			
53	36	3	10	126	142	16	807.98	100		100																			
53	36	4	1	0	14	14	808.19	100		100																		<1	CO3 100
53	36	4	2	15	77	62	808.33	100		100																		<1	CO3 100
53	36	4	3A	80	90	10	808.95	100		100																			
53	36	4	3B	90	135	45	809.05	100		95		2.5	2.5																
53	36	4	4	136	147	11	809.50	100		100																			
53	36	5	1	1	9	8	809.67	100		100																			
53	36	5	2	10	19	9	809.75	95	5 IP	95																			
53	36	5	3	20	34	14	809.84	90	10 IP	80								10											
53	36	5	4	36	68	32	809.98																				RUBBLE		
53	36	5	5	68	71	3	810.30	100		100																			
54	36	5	6	74.5	77	2.5	810.33	100		100																			
54	36	5	7	80	87	7	810.36	100		100																			
54	36	5	8	88	95	7	810.43	100		100																			
54	37	1	1A-B	2	41	39	813.30	100		90		5	5							100	SM							<1	CO3 100
54	37	1	1C	41	56	15	813.69	100		100										100	SM							1	CO3 100
54	37	1	1D	56	65	9	813.84	100		100										100	SM							2	CO3 100
54	37	1	1E	65	81	16	813.93	100		100										100	SM							3	CO3 100
54	37	1	1F	81	101	20	814.09	100		100										100	SM							5	CO3 100
54	37	1	1G	101	117	16	814.29	100		100										100	SM							3	CO3 100
54	37	1	1H	117	139	22	814.45	100		100										100	SM							7	CO3 100
54	37	2	1A	1	41	40	814.75	100		100										100	SM							7	CO3 100
54	37	2	1B	41	49	8	815.15	100		25	75																	7	SM 100
54	37	2	1B	49	54	5	815.23	100		75		12.5	12.5															8	CO3 100
54	37	2	1B	54	105	51	815.28	100		95	5									100	SM							4	CO3 100
54	37	3	1	1.5	136	134.5	815.85	100		95		2.5	2.5							100	SM						VESICLE ABUNDANCE DECREASE DOWN CORE	3-<1	CO3 100
54	37	4	1	1	116	115	817.26	100		99		0.5	0.5							100	SM							<1	CO3 100
54	37	5	1A	2	50	48	818.46	100		100										100	SM							<1	CO3 100
54	37	5	1B-E	50	130	80	818.94	100		30		35	35							100	SM							<1	CO3 50 SM 50

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Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	Rock Color/Alteration Type: % Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	Phenocrysts: Olivine % Alt	Olivine 2nd min	Plagioclase % Alt	Plagioclase 2nd min	Pyroxene % Alt	Pyroxene 2nd min	Gms % Alt	Comments	Vesicles (%)	Vesicles Minerals and %
54	37	6	1	1	144.5	143.5	819.80	100		100										100	SM							<1	CO3 100
54	37	7	1	1	103.5	102.5	821.30	100		94		3	3							100	SM							<1	CO3 100
54	38	1	1A-D	1	145	144	822.80	100		92		4	4							100	SM								
54	38	2	1	1	139	138	824.26	100		98.6		1.4																	
55		2	2	139.5	141	1.5	825.64	100		100																			
55		2	3	142	148	6	825.66	100		98		2																	
55	38	3	1,-4	0	43	43	825.76	100		95		5																	
55	38	3	5	43	48	5	826.19	80	20 HY			2							20										
55	38	3	6	48.5	52	3.5	826.24		100 HY										100										
55	38	3	7	54	57	3	826.28	40	60 HY			5							60										
55	38	3	8,-15	60	149	89	826.31	100	100																				
55	38	4	1,-3	0	54	54	827.26	100	100																				
55	39	1	1	0	13.5	13.5	832.20																				RUBBLE		
55	39	1	2	13.5	22	8.5	832.34	100		95								5											
55	39	1	3	23	52	29	832.42	100		90		10															VEIN HALO V.DARK		
55	39	1	4	56	60.5	4.5	832.71	100		100																			
55	39	1	5	60.5	67	6.5	832.76	100		85								15									DARK HALO SHADOWING LIGHT GREY HALO		
55	39	1	6	69.5	73	3.5	832.82																				RUBBLE		
55	39	1	7	73	80	7	832.86	100		99								1									DARK HALO SHADOWING LIGHT GREY HALO		
55	39	1	8	80	86	6	832.93		100 HY										60										
55	39	1	9	87	142	55	832.99	100		95								5									DARK HALO SHADOWING LIGHT GREY HALO		
55	39	2	1	0	8	8	833.67																						
55	39	2	2	8.5	20	11.5	833.75	100		70								30											
55	39	2	3	24	40	16	833.87	100		90								10											
55	39	2	4	40	54	14	834.03	100		100																			
55	39	2	5	56	64	8	834.17	100		100																			
55	39	2	6	64	68	4	834.25	100		100																			
55	39	2	7	71.5	76	4.5	834.29	80	20	75								5										15	CO3>SM
55	39	2	8	78	81	3	834.33																						
55	39	2	9	81	96	15	834.36	100		100																			
56	39	2	10	97	110	13	834.51																						
56	39	2	11	110	120	10	834.64	50	50 B	50																	CO3 CEMENT		
56	40	1	1,-7	0	125	125	841.50	60	40 B	60																	5A MINI PILLOW W. G RIM		
56	40	1	8	125	147	22	842.75	100	95									5											
56	40	2	1	1	6	5	842.98																				RUBBLE		
56	40	2	2	7	25	18	843.03	100		95								5											
56	40	2	3	28	140	112	843.21	80	20 B	75								5											
56	40	3	1	0	38	38	844.39	95	5 B	90								5											
56	40	3	2	41	45	4	844.77	100		95								5											
56	40	3	3	45	49	4	844.81	100		95								5											
56	40	3	4	49	58	9	844.85																						
56	40	3	5	58	94	36	844.94	85	15 B	80								5											
56	40	3	6	46	100	54	845.30	100		95								4											
56	40	3	7	100	106	6	845.84																						
56	40	3	8	106	112	6	845.90		100 B	70																			
56	40	3	9	113	130	17	845.96	70	30 B	65								5											
56	40	3	10	131	134	3	846.13	70	30 B	70																			
56	40	3	11	135	139	4	846.16	100		95								5											
56	40	3	12	140	145	5	846.20	75	25 B	75								5											
56	40	4	1	0	16	16	845.85	75	25 B	70								5											
56	40	4	2	17	23	6	846.01	75	25 B	70								5											

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
56	40	4	3	24	30	6	846.07																						
56	41	1	1,-7	0	56	56	850.80																						
56	41	1	8	56	64	8	851.36	100		100																	3 PIECES	<<1	CO3 100
56	41	1	9	64	78	14	851.44	90	10 B	70								20											
56	41	1	10	78	85	7	851.58																						
56	41	1	11	86	90	4	851.65	50	50 B	95								5											
57	41	1	12	91	97	6	851.69	100		100																	4 PIECES	<1	CO3 100
57	41	1	13-14	97.5	127	29.5	851.75	100		100																			
57	41	1	15	127	137	10	852.05																						
57	41	1	16-17	137	150	13	852.15	100		100																		<<1	SM 100
57	42	1	1	1	119	118	860.00	100		93		3.5	3.5													10	MIAROLITES W. HALO	<<1	CO3 50 SM 50
57	42	2	1A-B	1	28	27	861.21	100		100																100			
57	42	2	1C	28	55	27	861.48	87.5	12.5 B	77.5		5	5													100			
57	42	2	2	55	62	7	861.75																						
58	42	2	3,-10	62	120	58	861.82	70	15 B 15 HY	65		2.5	2.5													7.5			
58	42	3	RUBBLE				862.71																						
58																													
58	43	1	1	0	3	3	869.10																				PEBBLE		
58	43	1	2	4	8	4	869.13	100		100																			
58	43	1	3	8.5	46.5	38	869.17	100		87		2															10% DARK HALO, LIGHT GREY HALO 1, PYRITE HALO		
58	43	1	4	50	80	30	869.55	100		92		3															5 % DARK HALO		
58	43	1	5	82	120.5	38.5	869.85	100		98		1															1 % DARK HALO		
58	43	1	6	123	130	7	870.24	100		84		6															10 % DARK HALO		
58	43	1	7	130	133	3	870.31	100		99																	1% LIGHT HALO		
58	43	1	8	134	138	4	870.34																						
58	43	1	9	138	144	6	870.38	100		90																	10% LIGHT HALO		
58	43	2	1	1	13	12	870.56	100		89		1								100	SM						10% DARK HALO		
58	43	2	2	15.5	25	9.5	870.68	100		95										100	SM						5% DARK HALO		
58	43	2	3	27.5	56	28.5	870.78	100		88		10								100	SM						2% DARK HALO		
58	43	2	4	58	66.5	8.5	871.06	100		99																	1% DARK HALO		
58	43	2	5	68	100.5	32.5	871.15	100		82		8								100	SM						10% DARK HALO		
58	43	2	6	101	134.5	33.5	871.47	100		80		10								100	SM						10% DARK HALO	<1	SM 100
58	43	3	1	0	19	19	871.92	98	2 B	25		48		25													CELADONITE MATRIX TO BRECCIA DOUBLE HALO		
58	43	3	2	21	46.5	25.5	872.11	100		75		5		20															
58	43	3	3	48	83.5	35.5	872.37	100		75		5		20															
58	43	3	4	88	894	806	872.72	100		65		5	5	25															
58	43	3	5	94	108.5	14.5	880.78	100		85		10		5															
58	43	3	6	111	121	10	880.93	100		100																			
58	43	3	7	121	136	15	881.03																				RUBBLE		
59	44	1	1	0	3.5	3.5	878.80	100		100																		<1	CO3 50 SM50
59	44	1	2	4	122	118	878.84	100		93		5															2% DARK HALO, SM VESICLES IN HALO, CO3+SULPHIDE IN D.GREY		CO3>SM>>SULP .
59	44	2	1	1	116.5	115.5	880.06	90	10 B	50		20								100	SM					50	20% DARK HALO	<1	CO3 70 SM 30
59	44	3	1	1	27	26	881.56	100		95		4															1% DARK HALO	<<1	SM 100
59	44	3	2	29	58	29	881.82	100		89		8															3% DARK HALO		
60	44	3	3	59	73	14	882.11																						
60	44	3	4	73	92	19	882.25	100		89		1															10% DARK HALO	<<1	SM 100
60	44	3	5	92	101	9	882.44																						
60	44	3	6	101	113	12	882.53	100		81		4															15% DARK HALO		
60	44	3	7	114	121	7	882.65	100		96																	4% DARK HALO		
60	44	3	8	121	131	10	882.72																						

Leg 185 HOLE 801C ALTERATION LOG

Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	Rock Color/Alteration Type: % Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	Phenocrysts: Olivine % Alt	Olivine 2nd min	Plagioclase % Alt	Plagioclase 2nd min	Pyroxene % Alt	Pyroxene 2nd min	Gms % Alt	Comments	Vesicles (%)	Vesicles Minerals and %
60	44	3	9	131	138	7	882.82	100		98																	2% DARK HALO	<<1	SM 100
60	44	3	10	138	148	10	882.89	100		60		2															38% DARK HALO	<<1	SM 100
60	45	1	1	0	5	5	888.40	100		95																	5% DARK HALO		
60	45	1	2	7	11	4	888.45	100		95									5										
60	45	1	3	12	18	6	888.49																				RUBBLE		
60	45	1	4	18	24	6	888.55	100		100																			
60	45	1	5	24	28	4	888.61	100		100																			
60	45	1	6	30	44	14	888.65	100		95																	5% DARK HALO		
60	45	1	7	45	61	16	888.79	100		60		5			35														
60	45	1	8	62	66	4	888.95	100		100																			
60	45	1	9	66	72	6	888.99																				RUBBLE		
60	45	1	10	72	83	11	889.05	100		100																			
60	45	1	11	84	93	9	889.16	90		90									10										
60	45	1	12	98	105	7	889.25		100 HY										85										
60	45	1	13	106	108	2	889.32	100		50																	50% DARK HALO		
60	45	1	14	111	133	22	889.34	100		60																	40% DARK HALO		
60	45	2	1	0	60	60	889.76	100		99																	1% DARK HALO		
60	45	2	2	62	84.5	22.5	890.36																				RUBBLE		
60	45	2	3	85	105	20	890.59	100		80																	20% DARK HALO		
60	45	2	4	105	116	11	890.79																				RUBBLE		
60	45	2	5	116	120	4	890.90	100		100																			
60	46	1	1	0	3	3	898.00	100		50																	50% DARK HALO		
60	46	1	2	4.5	43.5	39	898.03	100		97		2								100	SM						1% DARK HALO		
60	46	1	3	45	49	4	898.42	100		100																			
60	46	1	4	52	139.5	87.5	898.46	100		100																			
60	46	2	1	1	12	11	899.42	100		99																	1% LIGHT HALO		
60	46	2	2	14	29	15	899.53	90	10 IP	40																	50% DARK HALO		
60	46	2	3	29	37	8	899.68																				RUBBLE		
60	46	2	4	38	42	4	899.76	50	50 B	45		5																	
60	46	2	5	43	47	4	899.80	100		50																	50% DARK HALO		
60	46	2	6A	47	65	18	899.84	75	25 B	45		15			15														
60	46	2	6B-D	66	115	49	900.02	100		68		7			25					100	SM								
60	46	2	7	117	120	3	900.51	100		30		20								100	SM						50% DARK HALO		
60	46	2	8	121	124	3	900.54	100		100																			
60	46	3	1	0	26	26	900.71	100		40		2			58														
60	46	3	2	27	48	21	900.97	85	15 B	65		2			23														
60	46	3	3	50	54	4	901.18																				VEIN RUBBLE		
60	46	3	4,-6	54	67	13	901.22	100		99		1																	
60	46	3	7,-8	67	101	34	901.35	100		100																			
60	46	3	9,-10	102	114	12	901.69																				RUBBLE		
60	47	1	1	1	6	5	907.70	100		99									1	100	SM								
60	47	1	2	7	16.5	9.5	907.75	95	5 IP	90																	5% DARK HALO		
60	47	1	3	17.5	22	4.5	907.85	100		100																			
60	47	1	4,-9	23	57	34	907.89	100		100										100	SM								
60	47	1	10	57	66	9	908.23																				RUBBLE		
60	47	1	11,-13	66	94	28	908.32	100		100																			
60	47	1	14	94	104	10	908.60																				RUBBLE		
60	47	1	15,-18	104	126.5	22.5	908.70	100		100																			
60	47	1	19	126.5	131	4.5	908.93																				RUBBLE		
60	48	1	1,-3	0	100	100	916.70	100		100										100	SM								
60	48	1	4	101	130	29	917.70	100		100										100	SM							2	SM 100
60	48	2	1	1	31	30	918.00	100		100										100	SM						MIAROLITIC VOIDS	2	SM 100
60	48	2	2	34	40	6	918.30	100		100										100	SM								

Leg 185 HOLE 801C ALTERATION LOG										Rock Color/Alteration Type										Phenocrysts						Gms			
																				Olivine		Plagioclase		Pyroxene				Vesicles	
Unit	Core	Section	Pc no.	Top	Base	Length (cm)	Depth coretop	% Lava	% Other	% Dark grey	% Grey-brown	% Brown	% Green	% Grey green	% Green grey	% Pale green	% Fawn	Black halo	% Altrd glass	% Alt	2nd min	% Alt	2nd min	% Alt	2nd min	% Alt	Comments	(%)	Minerals and %
60	48	2	3,-7	40	68.5	28.5	918.36	100		100										100	SM								
60	48	2	8	68.5	108.5	40	918.65	100		99										100	SM						1% DISSEMINATED SULPHIDE		
60	48	2	9,-12	110	132	22	919.05																				RUBBLE		
60	48	2	13	132	147	15	919.27	100		100																	<1% DISSEMINATED SULPHIDE		
60	48	3	1	0	10.5	10.5	919.50																						
60	48	3	2	10.5	27.5	17	919.61	100		100																			
60	48	3	3	27.5	36.5	9	919.78																						
60	48	3	4	36.5	43	6.5	919.87	100		100																			
60	49	1	1	0	9.5	9.5	928.30	100		100																			
60	49	1	2	10	24	14	928.40	100		100																			
60	49	1	3	25	48.5	23.5	928.54	100		100																			
60	49	1	4	50	54	4	928.77	100		100																			
60	49	1	5	54.5	63	8.5	928.81	100		100																	V.THIN PALE GRAY HALO W PYRITE		
60	49	1	6	63.5	72	8.5	928.90	100		100																	5 PIECES		
60	49	1	7	72	75	3	928.98	100		100									0.5								QUENCH MARGIN		
60	49	1	8	76.5	80	3.5	929.01	100		100									0.5								QUENCH MARGIN		
60	49	1	9	80	87	7	929.05	85	15 G	85									10								ALTERED PILLOW RIM		
60	49	1	10	88	91.5	3.5	929.12	100		100																	FRESH PLAG		
60	49	1	11	92	103	11	929.15	85	15 G	85									5										
60	49	1	12	104	109	5	929.26	100		100																			
60	50	1	1	0	3.5	3.5	931.50	100		100																			
60	50	1	2	4.5	7	2.5	931.54	100		100																			
60	50	1	3	8	24	16	931.56	70	30 HY	70									30										
60	50	1	4	27	38.5	11.5	931.72	85	15 HY	85									15										
60	50	1	5	41	49	8	931.84	100		100																			
60	50	1	9	50	56	6	931.92	100		100																			
60	51	1	1	0	37	37	932.00	93	7 HY										7								COARSENING AWAY FROM CHILL		
60	51	1	2	39	54	15	932.37	100		100																			
60	51	1	3	56	64	8	932.52	100		100																	SLIGHT PYRITE HALO WITH GREY BLEACHED ZONE		
60	51	1	4	64	70.5	6.5	932.60																				RUBBLE		
60	51	1	5	70.5	86	15.5	932.67	100		100																			
60	52	1	1	0	20	20	932.80	100		100										100	SM								
60	52	1	2	22	29	7	933.00	100		100										100	SM								
60	52	1	3	30	52	22	933.07	100		100										100	SM						SLIGHT PYRITE HALO		
60	52	1	4	56	82	26	933.29	100		100										100	SM						MIAROLITIC VOIDS	2	CO3 50 SM 50

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
13R	1	4			13	17	0.2	v	100						C	1 mm py halos		100
13R	1	4			15	20	0.2		100						C			100
13R	1	4			15	19	0.5		100						C			100
13R	1	5			26	31	-			14			85	1	B	interpillow green sedim	100	100
13R	1	6			31	34	-			50	5		45		B	interpillow sediment.	100	100
13R	1	7			36	39	0.1		100						C			100
13R	1	7			34	38	0.4		100						C			100
13R	1	7			35	38	1		10		90				C			100
13R	1	8														rubble		0
14R	1	2	34		61	65	0.1		90			10			C			100
14R	1	2	34		113	117	0.1				100				C			100
14R	1	2	34		73	80	0.1	v	75		25				C			100
14R	1	2	34		68	80	0.1	v	75		25				C			100
14R	1	2	34		30	61	0.1		90			10			C			100
14R	1	2	34		27	27	0.2		50		50				C			100
14R	1	2	34		55	56	0.2		35		60	5			C			100
14R	1	2	34		31	38	0.2		55		40	5			C			100
14R	1	2	34		31	39	0.2	v	100						C			100
14R	1	2	34		49	58	0.2	v	35		60	5			C			100
14R	1	2	34		95	104	0.2	v	10		90				C			100
14R	1	2	34		69	72	0.3		60		30	10			C			100
14R	1	2	34		48	55	0.3		35		60	5			C			100
14R	1	2	34		5	15	0.3	v	5		90	5			C			100
14R	1	2	34		113	126	0.3		8		90	2			C			100
14R	1	2	34		124	129	0.4		8		90	2			C			100
14R	1	2	34		96	104	0.4	v	10		80	10			C			100
14R	1	2	34		103	114	0.4		8		90	2			C			100
14R	1	2	34		104	104	0.5		10		90				C			100
14R	1	2	34		27	28	0.5		10		90				C			100
14R	1	2	34		93	94	0.5		20		80				C			100
14R	1	2	34		94	97	0.5				100				C			100
14R	1	2	34		17	21	0.5		20		80				C			100
14R	1	2	34		15	17	0.6		20		80				C			100
14R	1	2	34		66	72	0.6		33		34	33			C			100
14R	1	2	34		79	84	0.7		20		80				C			100
14R	1	2	34		15	19	0.8	v	10		80	10			C			100
14R	1	2	34		82	94	0.8	v	20		80				C			100
14R	1	2	34		56	60	1.2		15		70	15			C	1 cm dk halo		100
14R	1	2	34		71	73	1.5		10		80	10			C			100
14R	1	2	34		27	31	1.5		30		70				C			100
14R	1	2	34		106	118	1.5	v			100				C			100
14R	1	2	34		20	37	1.8		10		90				C			100
14R	2	1	34		90	91	-		90					10	B	blk interplw	100	100
14R	2	1	34		20	20	0.1		100						C			100
14R	2	1	34		52	52	0.1		95		5				C			100
14R	2	1	34		63	63	0.1		100						C			100
14R	2	1	34		67	67	0.1		100						C			100
14R	2	1	34		40	42	0.1		95		5				C			100
14R	2	1	34		83	89	0.1	v	100						C			100
14R	2	1	34		49	57	0.1		95		5				C			100
14R	2	1	34		81	81	0.2		20		80				C	py halo		100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
14R	2	1	34		22	22	0.2				100				C			100
14R	2	1	34		26	26	0.2				100				C			100
14R	2	1	34		27	28	0.2		70		20	10			C			100
14R	2	1	34		29	30	0.2		70		20	10			C			100
14R	2	1	34		79	87	0.2		40		60				C	1 mm py halo		100
14R	2	1	34		12	34	0.2		80		10	10			C			100
14R	2	1	34		80	80	0.3		20		80				C			100
14R	2	1	34		74	76	0.3		30		70				C	2 mm halo		100
14R	2	1	34		33	37	0.4		35		60	5			C	subvertical		100
14R	2	1	34		1	17	0.4		15		80	5			C			100
14R	2	1	34		3	4	0.5		10		90				C			100
14R	2	1	34		59	59	0.5		5		95				C			100
14R	2	1	34		0	3	0.5				100				C			100
14R	2	1	34		53	82	0.5		13		85	2			C			100
14R	2	1	34		71	73	0.7		28		70	2			C			100
14R	2	1	34		52	53	1		30		70				C			100
14R	2	1	34		79	80	1		10		90				C			100
14R	2	2	35		91	95	-			100					A	alt glass coating	85	100
14R	2	2	35		110	125	-			45	4		50	1	B	interplw chert/sed green/red	70	100
14R	2	2	35		99	99	0.1		100						C			100
14R	2	2	35		105	108	0.2			100					C			100
14R	2	2	35		94	101	0.2	v	50		50				C			100
14R	2	2	35		108	108	0.3			100					C			100
14R	2	2	35		102	105	0.8		30		70				C			100
14R	2	2	35		96	96	1.2		100						C			100
14R	2	2	35		98	104	1.2		30		70				C			100
14R	2	2	35		107	109	1.8		90		10				C			100
14R	2	2	35		108	111	2.5	v	100						C			100
14R	2	3	36		126	128	-			18			80	2	B	grn+red interplw chert/sed	100	100
14R	2	4	36		130	132	-			18			80	2	B	grn+red interplw chert/sed	100	100
14R	2	5	36		133	136	-			18			80	2	B	grn+red interplw chert/sed	100	100
14R	2	6	36		137	140	-			18			80	2	B	grn+red interplw chert/sed	100	100
14R	2	7	36		142	145	-			18			80	2	B	grn+red interplw chert/sed	100	100
14R	3	1	36		0	3	-			23			75	2	B	grn+red interplw chert/sed	100	100
14R	3	2	36		4	7	-			24	5		70	1	B	25% interplw	25	100
14R	3	3	37		11	13	0.1	v	7		90	3			C			100
14R	3	3	37		11	12	0.2		7		90	3			C			100
14R	3	3	37		18	20	0.2				100				C			100
14R	3	3	37		16	20	0.5		40		60				C			100
14R	3	3	37		14	22	0.6				99	1			C			100
14R	3	3	37		22	30	1		1		98	1			C			100
14R	3	3	37		15	16	1.5		50		50				C	composite veins, 0.5 mm halos		100
14R	3	3	37		8	10	2		10	25	60			5	C	grn-blu halo		100
14R	3	3	37		16	19	2.5		5		95				C			100
14R	3	4	37		32	34	0.3	v	95					5	C			100
14R	3	4	37		29	31	10			35	60			5	C			100
14R	3	5	37		38	40	0.1	v			100				C			100
14R	3	5	37		34	37	0.1		40		60				C			100
14R	3	5	37		32	34	0.2	v	85		10	5			C			100
14R	3	5	37		40	42	0.2	v			100				C			100
14R	3	5	37		35	35	0.3		50		50				C			100
14R	3	5	37		34	34	0.6				100				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
14R	3	5	37		39	42	1	v	5		95				C	.5 mm py halo		100
14R	3	5	37		34	38	1.2		10		90				C			100
14R	3	5	37		38	48	1.2		20		80				C	2mm py halo		100
14R	3	6	37		56	61	0.1		100						C			100
14R	3	6	37		55	56	0.6		50		50				C	py halo		100
14R	3	6	37		50	56	1	v	20		80				C	2 mm py halo		100
14R	3	6	37		56	61	2	v	5		95				C			100
14R	3	7	37		61	65	0.1	v	100						C			100
14R	3	7	37		61	64	0.2		50		50				C			100
14R	3	8	37		68	77	-			90	10				B	interplw	30	100
14R	3	8	37		90	106	-		10	45	10		33	2	B	interflow or interpillow	75	100
14R	3	8	37		66	68	0.1		100						C			100
14R	3	8	37		65	68	0.1	v	100						C			100
14R	3	8	37		77	81	0.1				95			5	C			100
14R	3	8	37		83	85	0.2				100				C			100
14R	3	8	37		82	86	0.2				95			5	C			100
14R	3	8	37		80	81	1				95			5	C	CO3 rich haklo		100
14R	3	8	37		67	70	1	v	5		95				C			100
14R	3	8	37		102	105	2	v	40	60					C			100
14R	3	8	37		84	89	2	v	5		90			5	C			100
14R	3	8	37		82	89	3	v			95			5	C			100
14R	3	9	37		108	108	0.5			50	50				C			100
14R	3	9	37		106	110	1.5	v		40	60				C	1 mm halo		100
14R	3	10	37		110	126	-			14			85	1	B	interpillow	90	100
14R	3	10	37		123	126	1.5		100						C			100
14R	3	11	37		132	135	0.1				100				C			100
14R	3	11	37		128	133	0.6		15		80			5	C			100
14R	3	11	37		131	134	0.7		5		95				C			100
14R	3	11	37		128	130	0.8		18		80	1		1	C	1.5 mm py halo		100
14R	3	11	37		127	134	1		15		80			5	C			100
14R	4	1	38		10	12	0.1		98			2			C			100
14R	4	1	38		4	7	0.2		95					5	C			100
14R	4	1	38		11	15	0.2		50		50				C			100
14R	4	1	38		1	6	0.2		95					5	C			100
14R	4	1	38		2	8	0.2		98			2			C			100
14R	4	1	38		13	17	0.3		14		85	1			C			100
14R	4	2	38		19	22	0.1	v	100						C			100
14R	4	3	38		23	27	1		50		50				C	3 mm brn halo		100
14R	4	4	38													rubble		0
14R	4	5	38		34	38	0.1		100						C	1 mm feox halo		100
14R	4	5	38		38	43	0.1	v	98			2			C			100
14R	4	5	38		33	34	0.2		5		95				C			100
14R	4	5	38		30	40	0.2		45		45			10	C			100
14R	4	5	38		40	43	0.3		100						C			100
14R	4	6	38		44	45	0.5	v			100				C			100
14R	4	6	38		44	45	1	v			100				C			100
14R	4	7	38		48	48	0.3		5		95				C			100
14R	4	7	38		50	50	0.3		5		95				C			100
14R	4	7	38		48	56	1.5	v	5		95				C			100
14R	4	8	38		58	60	0.1		100						C			100
14R	4	8	38		60	63	0.1		100						C			100
14R	4	8	38		57	61	0.1		100						C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
14R	4	8	38		64	65	0.2		5		95				C			100
14R	4	8	38		65	68	0.2	v	5		95				C			100
14R	4	8	38		57	66	0.5	v	35		60			5	C	1 mm green halo		100
14R	4	9	38		76	78	0.2				100				C			100
14R	4	9	38		75	78	0.3		30		70				C			100
14R	4	9	38		70	72	0.4		8		90	2			C			100
14R	4	9	38		68	77	0.4		8		90	2			C			100
14R	4	10	38		81	81	0.1					100			C			100
14R	4	10	38		86	86	0.1		100						C			100
14R	4	10	38		88	89	0.1					100			C			100
14R	4	10	38		89	90	0.1					100			C			100
14R	4	10	38		91	95	0.1		95			5			C			100
14R	4	10	38		90	91	0.2		100						C			100
14R	4	10	38		91	95	0.2	v	8		90	2			C			100
14R	4	10	38		83	86	0.4	v	10		90				C			100
14R	4	10	38		85	90	1.2		4		95	1			C			100
14R	4	11	38		96	97	0.1		20		80				C			100
14R	4	11	38		97	99	0.4	v	5		95				C			100
14R	4	11	38		98	100	0.4		5		95				C			100
14R	4	12	38		103	104	0.1	v	98			2			C			100
14R	4	12	38		107	109	0.1		98			2			C			100
14R	4	12	38		103	106	0.1		98			2			C			100
14R	4	12	38		104	111	0.2		8		90	2			C			100
14R	4	12	38		103	111	1		10		90				C			100
14R	4	13	38		112	115	0.4		90		10				C			100
14R	4	13	38		111	116	0.4		10		90				C			100
14R	4	13	38		112	115	0.5				100				C			100
14R	4	13	38		111	114	7		5		95				C			100
14R	4	14	38		135	136	0.3				100				C			100
14R	4	14	38		118	120	0.3				100				C			100
14R	4	14	38		124	127	1		5		95				C			100
14R	4	14	38		129	136	1	v	2		95	3			C			100
14R	4	14	38		124	125	1.2				100				C			100
14R	4	14	38		125	134	1.6		8		91	1			C			100
14R	4	15	38		141	145	0.3	v			100				C			100
14R	4	15	38		140	140	1		5		95				C			100
14R	5	1	38		5	7	0.4				100				C			100
14R	5	1	38		0	7	0.5		10		90				C			100
14R	5	1	38		0	4	0.6	v			100				C			100
14R	5	2	38		17	20	0.2	v			98	2			C			100
14R	5	2	38		10	13	0.2		60			40			C			100
14R	5	2	38		15	21	0.4	v			98	2			C			100
14R	5	2	38		12	21	0.5	v			98	2			C			100
14R	5	2	38		13	15	0.6				95	5			C			100
14R	5	3	38		40	40	0.4		20		80				C			100
14R	5	3	38		31	39	0.4	v	3		95			2	C			100
14R	5	3	38		23	33	0.4		40		50			10	C			100
14R	5	3	38		31	42	0.5	v	3		95			2	C			100
14R	5	3	38		22	23	1	v			100				C			100
14R	5	3	38		22	24	4	v	25		75				C			100
14R	5	4	38		50	53	0.1				100				C			100
14R	5	4	38		45	49	0.1				100				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
14R	5	4	38		43	46	0.3		10		90				C			100
14R	5	4	38		43	54	0.3	v	10		90				C			100
14R	5	4	38		43	47	0.6	v	10		90				C			100
14R	5	4	38		53	56	4		8	1	90			1	C			100
14R	5	5	38		58	58.5	-			18	2		80		B	green interflow chert layer	100	100
14R	5	5	38		58	60	0.5	v			100				C			100
14R	5	6	38		65	67	0.1				100				C			100
14R	5	6	38		70	71	0.3				100				C			100
14R	5	6	38		63	71	1				100				C			100
14R	5	6	38		71	72	2		5		95				C			100
14R	5	7	38		73	73	0.1				100				C			100
14R	5	7	38		74	74	0.1				100				C			100
14R	5	7	38		86	89	0.5	v		80	20				C			100
14R	5	7	38		84	89	0.5			5	95				C			100
14R	5	7	38		87	90	1			70	28			2	C			100
14R	5	7	38		72	89	2	v		5	95				C			100
14R	5	8	38		91	95	0.2			90	5			5	C			100
14R	5	8	38		92	96	1			9	90			1	C			100
14R	5	8	38		92	96	2	v			100				C			100
15R	1	1	39		0	4	-			40	30		30		B	blk interpillow chert	100	100
15R	1	2	39		5	22	-			40	30		30		B	interpillow sediment + clasts basaltes	80	100
15R	1	3	39		22	26	-			40	50		10		B	interpillow	60	100
15R	1	4	39		27	32	-			40	50		10		B	interpillow	25	100
15R	1	5	39		32	39	-			8	60		30	2	A	vein like interpillow sed + clasts of B	35	100
15R	1	5	39		36	39	1.5	v		20	80				C			100
15R	1	6	39		40	43	-			70	20		10		B	interpillow sedim	75	100
15R	1	7	40		44	47	-			35	20		45		B	interpillow sedim	100	100
15R	1	8	40		47	51	-			5	10		80	5	B	cherty interpillow	100	100
15R	1	14	40		77	79	-			30	20		45	5	B	mottled cherty interpillow	100	100
15R	1	15	41		80	83	-			30	20		45	5	B	mottled cherty interpillow	80	100
15R	1	16	41		83	86	-			5	35		60		A	Vug/interplw?	50	100
15R	1	16	41		99	99	0.1			25	50			25	C	1mm FeOx halo		100
15R	1	16	41		86	87	0.1				100				C			100
15R	1	16	41		89	91	0.1			65	35				C	halo		100
15R	1	16	41		85	88	0.2			50	50				C			100
15R	1	16	41		96	97	0.5			10	80			10	C			100
15R	1	16	41		100	103	0.5			20	70			10	C	1cm green halo		100
15R	1	16	41		91	92	1				100				C			100
15R	1	16	41		104	106	6			25	70			5	C	1cm green halo		100
15R	1	16	41		85	100	12	v		5	30		60	5	C	1 cm green halo		100
15R	1	17	41		106	126	-				30		60	10	A	interpillow fill, breccia, vein like	25	100
15R	1	17	41		113	114	0.1				100				C			100
15R	1	17	41		124	126	0.1				100				C	1mm greem halo		100
15R	1	17	41		118	120	0.1	v			100				C			100
15R	1	17	41		116	117	0.2		10		90				C			100
15R	1	17	41		116	120	0.2	v			95			5	C			100
15R	1	17	41		125	125	0.3				100				C			100
15R	1	17	41		119	120	0.3		10		90				C			100
15R	1	17	41		120	123	0.3	v	10		90				C			100
15R	1	17	41		121	122	0.4				100				C			100
15R	1	17	41		111	113	0.6				100				C			100
15R	1	18	41		129	129	5			4			95	1	C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
15R	1	13-Sep	40		51	76	-				5		90	5	B	red cherty interpillow	100	100
15R	2	1	41		39	44	-			15	60		20	5	A	Breccia with clasts of basalt, 5 mm halo FeOx	40	100
15R	2	1	41		31	31	0.1		40		50	10			C			100
15R	2	1	41		29	29	0.1					100			C			100
15R	2	1	41		14	14	0.1				100				C			100
15R	2	1	41		29	29	0.1				100				C			100
15R	2	1	41		32	32	0.1				100				C			100
15R	2	1	41		33	33	0.1				100				C			100
15R	2	1	41		28	29	0.1				100				C			100
15R	2	1	41		38	40	0.1		15		15			70	C	1 mm FeOx halo		100
15R	2	1	41		21	23	0.1				100				C			100
15R	2	1	41		27	29	0.1				100				C			100
15R	2	1	41		23	26	0.1	v			100				C	1 mm py halo		100
15R	2	1	41		4	7	0.1				100				C			100
15R	2	1	41		13	17	0.1				100				C			100
15R	2	1	41		13	17	0.1				100				C			100
15R	2	1	41		1	6	0.1	v			90	10			C			100
15R	2	1	41		30	30	0.2				10	90			C			100
15R	2	1	41		28	28	0.2				100				C			100
15R	2	1	41		30	31	0.2	v	3		95	2			C			100
15R	2	1	41		35	39	0.2				90	5		5	C			100
15R	2	1	41		6	6	0.3		5		95				C			100
15R	2	1	41		12	14	0.3		30		60	10			C			100
15R	2	1	41		34	34	0.4				100				C			100
15R	2	1	41		1	2	0.4				100				C			100
15R	2	1	41		19	20	0.4				95				C			95
15R	2	1	41		34	35	0.4		40		60				C			100
15R	2	1	41		20	20	0.5				100				C			100
15R	2	1	41		24	24	0.6		10		90				C			100
15R	2	1	41		24	24	0.6				100				C			100
15R	2	1	41		25	25	0.6				100				C			100
15R	2	1	41		41	44	0.6	v	8		10	2		80	C			100
15R	2	1	41		1	1	0.7				100				C			100
15R	2	1	41		39	39	0.8				100				C			100
15R	2	1	41		26	26	0.9				100				C			100
15R	2	1	41		36	36	1				100				C			100
15R	2	1	41		42	45	1	v	30		20			50	C	2 mm FeOx halo		100
15R	2	1	41		5	8	1		6		90				C			96
15R	2	1	41		2	5	1.5	v		10	90				C			100
15R	2	1	41		21	23	2	v	2		90				C			92
15R	2	1	41		13	29	2.5		2		90				C			92
15R	2	1	41		35	35	4				100				C			100
15R	2	2	41		52	52	0.1				100				C			100
15R	2	2	41		51	51	0.2				100				C			100
15R	2	2	41		48	49	0.2				100				C			100
15R	2	2	41		46	52	0.6	v	10		10	40		40	C			100
15R	2	2	41		51	53	1.5				90				C			90
15R	2	3	42		54	54	0.8				50		50		C			100
15R	2	6	42		71	73	-			40	50		8	2	B	interpillow green	100	100
15R	2	7	43		120	138	-			20	30		40	10	A	interpillow alt glass, 1cm lt green halo	40	100
15R	2	7	42		74	94	-			20	70		5	5	A	Breccia	45	100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
15R	2	7	43		97	97	0.1				100				C			100
15R	2	7	43		119	119	0.1				100				C			100
15R	2	7	43		102	106	0.1	v			100				C			100
15R	2	7	43		94	100	0.1	v			90			10	C			100
15R	2	7	43		114	114	0.2				100				C			100
15R	2	7	43		118	118	0.2		3		95			2	C			100
15R	2	7	43		115	117	0.2				100				C			100
15R	2	7	43		117	117	0.4	v	50		50				C	3 mm green halo		100
15R	2	7	43		118	118	0.4				100				C			100
15R	2	7	43		112	112	0.6		15		80			5	C			100
15R	2	7	43		120	121	0.6				100				C			100
15R	2	7	43		99	101	0.6	v	15		85				C			100
15R	2	7	43		106	110	0.7	v			100				C			100
15R	2	7	43		106	106	0.8		10	5	85				C			100
15R	2	7	43		120	124	0.8		10		85				C			95
15R	2	7	43		94	94	1		5	5	90				C			100
15R	2	7	43		98	98	1				100				C			100
15R	2	7	43		101	102	3		5		90			5	C			100
15R	2	3 to 5	42		55	70	-			10	10		75	5	B	interpillow red green sed + alt glass	90	100
15R	3	1	43		54	56	-		30		8		60	2	B	interpillow	100	100
15R	3	1	43		59	66	-		60		10		10	5	B	interpillow with red sed	45	85
15R	3	1	43		4	11	-			20	20		55	5	B	interpillow sediment	100	100
15R	3	1	43		45	45	0.1				100				C			100
15R	3	1	43		57	58	0.2								C			0
15R	3	1	43		64	65	0.2								C			0
15R	3	1	43		44	47	0.2		40		50	10			C			100
15R	3	1	43		12	20	0.2	v			100				C			100
15R	3	1	43		11	16	0.4	v			95				C			95
15R	3	1	43		56	60	0.5	v			100				C			100
15R	3	1	43		13	14	0.7				100				C			100
15R	3	1	43		34	38	0.8				100				C			100
15R	3	1	43		22	23	1			20	80				C			100
15R	3	1	43		1	4	1		20		80				C			100
15R	3	1	43		33	35	1.2			40	60				C			100
15R	3	1	43		22	40	1.2			40	60				C			100
15R	3	1	43		61	62	2		45		10				C			55
15R	3	1	43		62	66	2	v	60						C			60
15R	3	1	43		56	63	2		30		50				C			80
15R	3	1	43		32	42	5		10		80				C			90
15R	3	1	43		21	22	8			5	20		70	5	C			100
15R	3	2	43		67	75	-		15	15	15		50	5	B	interpillow	90	100
15R	3	3	43		76	79	-		20	20	5		50	5	B	interpillow	85	100
15R	3	3	43		111	113	0.2		100						C			100
15R	3	3	43		86	92	0.4		30		30				C			60
15R	3	3	43		93	103	0.4		30		30				C			60
15R	3	3	43		97	109	0.4		30		30				C			60
15R	3	3	43		106	109	0.5		30		30				C			60
15R	3	3	43		108	109	1		60						C			60
15R	3	3	43		111	113	1	v	60						C			60
15R	3	3	43		80	94	1.5	v	30		30				C			60
15R	3	3	43		80	82	1.7		80						C			80
15R	3	4,5	43		114	130	-			5	5		85	5	B	interpillow	100	100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
15R	4	1	43		0	3	-			5	5		85	5	B	interpillow red cherty sedim	100	100
15R	4	1	44		30	31	0.1		95			5			C			100
15R	4	1	44		2	4	0.1				100				C			100
15R	4	1	44		26	30	0.1		95			5			C			100
15R	4	1	44		30	34	0.1		10						C			10
15R	4	1	44		39	44	0.1	v	100						C			100
15R	4	1	44		35	35	0.2		10		90				C			100
15R	4	1	44		79	79	0.2				100				C			100
15R	4	1	44		56	57	0.2		95			5			C			100
15R	4	1	44		97	98	0.2		100						C			100
15R	4	1	44		49	53	0.2			30	60	10			C			100
15R	4	1	44		16	18	0.3				100				C			100
15R	4	1	44		37	40	0.3				100				C			100
15R	4	1	44		6	6	0.4				100				C			100
15R	4	1	44		71	72	0.4				100				C			100
15R	4	1	44		17	19	0.4		10		90				C			100
15R	4	1	44		70	72	0.4				100				C			100
15R	4	1	44		24	27	0.4				100				C			100
15R	4	1	44		117	126	0.4		8		90	2			C			100
15R	4	1	44		70	70	0.5		10		90				C			100
15R	4	1	44		99	99	0.5			20	80				C			100
15R	4	1	44		22	24	0.5				100				C			100
15R	4	1	44		36	38	0.5		10		90				C			100
15R	4	1	44		72	75	0.5	v	10	10	80				C			100
15R	4	1	44		99	106	0.5	v			80				C			80
15R	4	1	44		9	9	0.6				100				C			100
15R	4	1	44		7	9	0.6				100				C			100
15R	4	1	44		8	15	0.6		10		90				C			100
15R	4	1	44		18	22	0.8		10		90				C			100
15R	4	1	44		59	65	0.8			45	50	5			C			100
15R	4	1	44		79	81	1		30		70				C			100
15R	4	1	44		84	87	1				100				C			100
15R	4	1	44		33	37	1		10		90				C			100
15R	4	1	44		43	51	1				100				C			100
15R	4	1	44		43	44	1.5		10	30	60				C			100
15R	4	1	44		8	10	1.5	v			100				C			100
15R	4	1	44		80	82	1.5		20		70				C			90
15R	4	1	44		113	118	2		10		70		20		C			100
15R	4	1	44		72	78	2		5		95				C			100
15R	5	1	44		90	95	-		15	20			60	5	B	interpillow, red	25	100
15R	5	1	44		20	20	0.1		80			20			C			100
15R	5	1	44		80	80	0.1		100						C			100
15R	5	1	44		23	24	0.1		80			20			C			100
15R	5	1	44		19	20	0.1		90		10				C			100
15R	5	1	44		30	31	0.1		60	40					C			100
15R	5	1	44		58	59	0.1				100				C			100
15R	5	1	44		89	90	0.1				100				C			100
15R	5	1	44		90	91	0.1				100				C			100
15R	5	1	44		5	8	0.1		15	83		2			C			100
15R	5	1	44		1	5	0.1		80		5	15			C			100
15R	5	1	44		63	67	0.1		80		20				C			100
15R	5	1	44		32	33	0.2		80	15		5			C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
15R	5	1	44		90	91	0.2				100				C	2 mm halo, l. green		100
15R	5	1	44		30	31	0.2		90	10					C			100
15R	5	1	44		90	91	0.2		40		60				C			100
15R	5	1	44		26	28	0.2			50	30	20			C			100
15R	5	1	44		9	12	0.2		60	15	5	20			C			100
15R	5	1	44		66	70	0.2		30		70				C			100
15R	5	1	44		27	33	0.2				100				C	1.5 mm halo		100
15R	5	1	44		60	67	0.2	v	8	2	90				C			100
15R	5	1	44		88	89	0.3		10		90				C			100
15R	5	1	44		85	87	0.3		10		90				C			100
15R	5	1	44		38	42	0.3		70		20	10			C			100
15R	5	1	44		47	55	0.8	v	5		95				C			100
15R	5	1	44		1	10	0.8		15	83		2			C			100
15R	5	1	44		57	61	1		10		90				C			100
15R	5	1	44		75	82	1	v	80	10	10				C			100
15R	5	1	44		32	40	1	v	2		98				C			100
15R	5	1	44		74	87	1.2		80	10	10				C			100
15R	5	1	44		43	50	1.5		20	10	70				C			100
15R	5	1	44		12	32	3			10	90				C	0.5 mm dk green halo		100
15R	6	1	45		1	4	-		30	10	30		20	5	B	interpillow sed	60	95
15R	6	1	46		112	140	-			10	45		25	5	B	interpillow, red clasts	70	85
15R	6	1	45		4	4	0.1				100				C			100
15R	6	1	45		21	21	0.1		40		60				C			100
15R	6	1	45		85	86	0.1		25	25	50				C	1 mm halo		100
15R	6	1	45		34	35	0.1		30		70				C			100
15R	6	1	45		9	11	0.1		40	60					C	1 mm l. green halo		100
15R	6	1	45		91	93	0.1			30	70				C			100
15R	6	1	45		107	109	0.1				100				C			100
15R	6	1	45		49	52	0.1	v	60		40				C			100
15R	6	1	45		92	95	0.1			30	65			5	C			100
15R	6	1	45		78	82	0.1		80		20				C			100
15R	6	1	45		52	57	0.1		70		30				C			100
15R	6	1	45		28	47	0.1	v	80		20				C			100
15R	6	1	45		4	7	0.2		100						C			100
15R	6	1	45		33	36	0.2		30		70				C			100
15R	6	1	45		46	49	0.2		25	25	50				C			100
15R	6	1	45		52	65	0.2		100						C			100
15R	6	1	45		89	104	0.2			20	60			20	C	1 mm fe-ox halo		100
15R	6	1	45		88	88	0.3			40	40			20	C	halo 1 mm fe-ox		100
15R	6	1	45		40	43	0.3	v	10		90				C			100
15R	6	1	45		65	69	0.3	v	5		95				C			100
15R	6	1	45		24	30	0.4		50		50				C	2 mm green halo		100
15R	6	1	45		43	43	0.5		5		95				C			100
15R	6	1	45		45	45	0.5		5	5	90				C			100
15R	6	1	45		73	82	0.5		8		90				C			98
15R	6	1	45		31	50	1		20		80				C	3 mm l. green halo		100
15R	6	1	45		64	67	1.1				100				C			100
15R	6	1	45		69	69	1.5		5		95				C			100
15R	6	1	45		44	49	1.5		5		95				C			100
15R	6	1	45		4	11	2.5	v	30		68			2	C	3 mm halo		100
15R	6	1	45		13	27	3		30		68			2	C	4 mm halo		100
15R	6	1	45		69	87	3		20		80				C	diffuse halos up to 1 cm		100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
15R	7	1	46		1	3	-				10		85	5	B	interpillow, basalt chloritized	25	100
15R	7	1	46		17	24	-			8	15		75	2	B	vug/interplw?; with 0.1 mm py veins	50	100
15R	7	1	46		44	63	-			10	20		70		B	red, interpillow	100	100
15R	7	1	46		1	1	0.1			50	50				C			100
15R	7	1	46		67	67	0.1				100				C			100
15R	7	1	46		3	4	0.1					50			C	Fe-ox halo (1mm) + feS?		50
15R	7	1	46		65	66	0.1				100				C			100
15R	7	1	46		29	31	0.1					100			C			100
15R	7	1	46		17	20	0.1							100	C			100
15R	7	1	46		62	66	0.1	v	50			50			C			100
15R	7	1	46		62	67	0.1	v	50			50			C			100
15R	7	1	46		2	8	0.1	v				50			C			50
15R	7	1	46		3	9	0.1					50			C			50
15R	7	1	46		19	25	0.1		50		50				C	1 mm halo		100
15R	7	1	46		76	82	0.1		50		50				C			100
15R	7	1	46		20	35	0.1	v			90	10			C			100
15R	7	1	46		75	75	0.2				100				C			100
15R	7	1	46		37	40	0.3		5		90			5	C			100
15R	7	1	46		68	68	0.4				100				C			100
15R	7	1	46		8	10	0.4		40		40	20			C	fe-o halo		100
15R	7	1	46		3	9	0.4				100				C			100
15R	7	1	46		62	66	0.5	v	99			1			C			100
15R	7	1	46		81	91	0.5				100				C			100
15R	7	1	46		91	101	0.5								C			0
15R	7	1	46		70	72	0.6				100				C			100
15R	7	1	46		40	44	0.6			20	80				C			100
15R	7	1	46		35	35	1				100				C			100
15R	7	1	46		91	93	1				100				C			100
15R	7	1	46		43	43	1.2				100				C			100
15R	7	1	46		61	64	1.2				100				C			100
15R	7	1	46		93	94	1.5				30				C			30
15R	7	1	46		10	13	2		50				50		C			100
15R	7	1	46		104	106	5				100				C			100
15R	7	1	46		4	12	6		10		30		60		C			100
16R	1	1	47		5	5	0.1		95			5			C			100
16R	1	1	47		0	1	0.1		95			5			C			100
16R	1	1	47		0	5	0.1	v	95			5			C			100
16R	1	2	47		23	23	0.1		100						C			100
16R	1	2	47		10	14	0.4		95			5			C			100
16R	1	2	47		17	21	0.5		100						C			100
16R	1	2	47		7	25	0.6	v		50	50				C			100
16R	1	3	47		42	42	0.1				100				C			100
16R	1	3	47		31	32	0.1				100				C			100
16R	1	3	47		31	31	1				100				C			100
16R	1	4	47		66	66	0.1		100						C			100
16R	1	4	47		116	117	0.1				100				C			100
16R	1	4	47		75	78	0.1		100						C			100
16R	1	4	47		86	89	0.1				100				C			100
16R	1	4	47		136	139	0.1				100				C			100
16R	1	4	47		53	60	0.1	v				100			C			100
16R	1	4	47		59	66	0.1					100			C			100
16R	1	4	47		114	121	0.1	v				100			C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti- cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
16R	1	4	47		129	131	0.2			50	50				C			100
16R	1	4	47		46	48	0.4		100						C			100
16R	1	4	47		134	136	0.5		100						C			100
16R	1	4	47		108	114	0.5			10	90				C			100
16R	1	4	47		122	124	0.6			100					C			100
16R	1	4	47		54	55	1		10		90				C			100
16R	1	4	47		92	96	1			10	90				C			100
16R	1	4	47		100	106	1			10	90				C			100
16R	1	4	47		81	89	1			100					C			100
16R	1	4	47		132	133	1.5				100				C			100
16R	1	4	47		44	44	2.5		10		90				C			100
16R	1	4	47		70	71	15				10		90		C			100
16R	1	3-Feb	47		28	37	-		10		10		80		B	interpillow sediment	80	100
16R	2	1	47		3	44	-			10	5		80	5	A	Breccia/matrix	20	100
16R	2	1	47		111	127	-			15	20		60	5	B	interpillow sediment	100	100
16R	2	1	47		100	101	0.1		10		50		40		C			100
16R	2	1	47		99	101	0.1				50	50			C			100
16R	2	1	47		86	88	0.1				10	90			C			100
16R	2	1	47		52	54	0.1								C	2 mm green halo + py		0
16R	2	1	47		50	54	0.1								C			0
16R	2	1	47		53	59	0.1								C			0
16R	2	1	47		94	108	0.1	v	40		30	30			C			100
16R	2	1	47		73	93	0.2		10		90				C			100
16R	2	1	47		59	62	0.5				95			2	C			97
16R	2	1	47		0	3	0.6				100				C			100
16R	2	1	47		55	67	0.6				90				C			90
16R	2	1	47		102	106	0.8		40		60				C			100
16R	2	1	47		54	55	1				99				C	2 mm green halo + py		99
16R	2	1	47		0	1	1				100				C			100
16R	2	1	47		49	50	1				100				C			100
16R	2	1	47		71	73	1				100				C			100
16R	2	1	47		62	69	1				95			2	C			97
16R	2	1	47		86	96	1		10		90				C			100
16R	2	1	47		71	82	1		10		90				C			100
16R	2	1	47		66	78	1	v			95			2	C			97
16R	2	1	47		86	103	1.5		10		50		40		C			100
16R	2	1	47		2	4	2				100				C			100
16R	2	1	47		77	80	2		10		90				C			100
16R	2	1	47		48	58	7	v	1		99				C			100
16R	2	1	47		99	101	0.1				50	50			C			100
16R	3	5	49		41	64	-			25	10		60	5	B	interpillow green red sed	100	100
16R	3	6	49		89	89	0.1				100				C			100
16R	3	6	49		84	90	0.1	v			100				C			100
16R	3	6	49		79	88	0.1	v			100				C			100
16R	3	6	49		65	66	0.2				100				C			100
16R	3	6	49		68	69	0.2				100				C			100
16R	3	6	49		68	83	0.3		50		50				C			100
16R	3	6	49		90	90	1				100				C			100
16R	3	6	49		65	66	1				100				C			100
16R	3	6	49		76	77	2.5		10		90				C			100
16R	3	6	49		66	68	2.5				100				C			100
16R	3	7	49		92	99	0.1	v				100			C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
16R	3	7	49		93	107	0.5		9		90	1			C			100
16R	3	7	49		108	108	2.5				100				C	vein net		100
16R	3	7	49		108	111	7		65		30			5	C			100
16R	3	7	49		92	92	8		9		90	1			C			100
16R	3	8	49		116	116	0.1				100				C			100
16R	3	8	49		118	118	0.1				100				C			100
16R	3	8	49		115	116	0.1				100				C			100
16R	3	8	49		117	118	0.1				100				C			100
16R	3	8	49		114	116	0.1				100				C			100
16R	3	8	49		131	133	0.1			100					C			100
16R	3	8	49		120	121	0.2				100				C			100
16R	3	8	49		129	131	0.2			100					C			100
16R	3	8	49		126	131	0.2		50		50				C			100
16R	3	8	49		125	132	0.2		50		50				C			100
16R	3	8	49		119	120	0.5		100						C			100
16R	3	8	49		133	138	0.5				100				C			100
16R	3	8	49		112	117	0.6				100				C			100
16R	3	8	49		139	141	0.9		50			50			C			100
16R	3	8	49		123	126	1		5		95				C			100
16R	3	8	49		130	131	1.5			10	90				C			100
16R	3	8	49		129	133	2		10		90				C			100
16R	3	8	49		117	124	2		5		95				C			100
16R	3	4-Jan	48		0	39	-						50	50	B	cherty , hydrothermal sediment? Yellow	100	100
16R	4	1	49		4	5	0.2				100				C			100
16R	4	1	49		6	7	0.5		8		90	2			C			100
16R	4	1	49		0	13	0.5	v	45		50	5			C			100
16R	4	1	49		9	13	0.7		8		90	2			C			100
16R	4	2	49		14	19	1.5				90		10		C			100
16R	4	4	49		39	40	0.2				100				C			100
16R	4	4	49		28	32	0.4		8		90	2			C			100
16R	4	4	49		32	42	0.4		5		95				C			100
16R	4	4	49		31	35	0.5				100				C			100
16R	4	4	49		35	41	2		10		90				C			100
16R	4	5	49		45	49	0.2	v				100			C			100
16R	4	5	49		45	52	0.2	v				100			C			100
16R	4	6	49		128	128	0.1				100				C			100
16R	4	6	49		127	128	0.1				100				C			100
16R	4	6	49		129	132	0.1					100			C	1 mm py halo		100
16R	4	6	49		107	110	0.1		100						C			100
16R	4	6	49		83	87	0.1	v				100			C			100
16R	4	6	49		103	108	0.1		100						C			100
16R	4	6	49		74	80	0.1	v				100			C			100
16R	4	6	49		65	75	0.1	v				100			C			100
16R	4	6	49		96	97	0.2				100				C			100
16R	4	6	49		110	116	0.2		95			5			C			100
16R	4	6	49		112	118	0.3	v	10			90			C			100
16R	4	6	49		63	71	0.4		8		90	2			C			100
16R	4	6	49		54	60	0.6				90		10		C			100
16R	4	6	49		60	67	0.6				90		10		C			100
16R	4	8	49		137	139	2.5				95	5			C			100
16R	5	1	49													rubble		0
16R	5	2	49		8	17	-			8			90	2	B	interpillow sed	85	100

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LEG 185 VEIN LOG

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801C																		
16R	5	3	49		18	23	3	v	10		90				C			100
16R	5	4	49		26	28	0.1				100				C			100
16R	5	4	49		24	28	0.1				100				C			100
16R	5	5	49		40	42	0.3				100				C			100
16R	5	5	49		37	40	0.3		10		90				C			100
16R	5	5	49		30	38	0.4	v			100				C			100
16R	5	5	49		31	36	0.5		5		95				C			100
16R	5	5	49		35	36	0.7		10		90				C			100
16R	5	6	49		50	53	0.1					100			C			100
16R	5	6	49		49	53	0.1	v			100				C			100
16R	5	6	49		46	52	0.1	v	50			50			C			100
16R	5	6	49		44	48	0.2				100				C			100
16R	5	6	49		45	46	0.3				100				C			100
16R	5	6	49		51	53	0.3				100				C			100
16R	5	7	49		57	64	-		5		60		32	3	B	interpillow	75	100
16R	5	7	49		56	56	0.2				100				C			100
16R	5	7	49		61	65	5	v	8		90	2			C			100
16R	5	8	49		68	68	0.6		10		90				C			100
16R	5	9	49		72	78	0.4				100				C			100
16R	5	9	49		73	82	0.5		10		90				C			100
16R	5	9	49		73	89	5	v	10		80		5	5	C	vein red interpillow like		100
16R	5	10	49		82	87	-		10		80		5	5	B	interpillow cherty sedim	50	100
16R	5	12	49		96	102	-				100				A	breccia	30	100
16R	5	12	49		100	104	0.4				100				C			100
16R	5	12	49		93	96	0.5	v			100				C			100
16R	5	13	49		106	113	-		15		80		3	2	A	breccia	10	100
16R	5	14	49		117	121	0.1	v			100				C			100
16R	5	14	49		116	122	0.6	v			100				C			100
16R	5	15	49		124	128	-				10		85	5	B	interpillow red cherty sedim	100	100
17R	1	1	49		11	12	0.1	v			100				C			100
17R	1	1	49		10	12	0.2		10		90				C			100
17R	1	1	49		8	12	0.5	v	10		90				C			100
17R	1	1	49		0	9	6	v	10		90				C	vein breccia like		100
17R	1	2	49		13	16	5	v	50		50				C			100
17R	1	3	49		17	19	0.1	v			100				C			100
17R	1	3	49		18	19	5	v	40		50			10	C			100
17R	1	4	49		21	22	0.1		50		50				C			100
17R	1	4	49		20	22	0.1	v			100				C			100
17R	1	5	49		23	26	10				100				C			100
17R	1	6	49		27	37	0.3	v			100				C			100
17R	1	6	49		27	33	4	v			100				C			100
17R	1	7	49		62	65	0.2		95			5			C			100
17R	1	7	49		40	48	0.2	v			100				C			100
17R	1	7	49		60	64	0.4		10		90				C			100
17R	1	7	49		53	57	0.6				100				C			100
17R	1	8	49		70	71	0.2		10		90				C			100
17R	1	8	49		112	115	0.2		100						C			100
17R	1	8	49		69	78	0.2		90		10				C			100
17R	1	8	49		69	69	0.5		10		90				C			100
17R	1	8	49		122	123	0.5		10		90				C			100
17R	1	8	49		104	106	0.5		90		8	2			C			100
17R	1	8	49		62	67	0.5		80		15	5			C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
17R	1	8	49		86	92	0.5		10		90				C			100
17R	1	8	49		87	97	0.5		10		90				C			100
17R	1	8	49		69	87	0.5		50		50				C			100
17R	1	8	49		80	98	0.6		10		90				C			100
17R	1	9	49		136	145	0.1	v			100				C			100
17R	1	9	49		125	136	0.4	v			100				C			100
17R	1	9	49		145	146	1				100				C			100
17R	2	1	49		1	3	15		30		60		10		C			100
17R	2	2	49		4	4	0.1		50		50				C			100
17R	2	3	49		9	10	3						70	10	C	interplw-like		80
17R	2	4	49		13	15	0.1		60		40				C			100
17R	2	4	49		11	15	0.1	v	60		40				C			100
17R	2	4	49		14	16	0.8		50		50				C	1 mm lt grn halo		100
17R	2	4	49		15	16	1		20		10		70		C	2 mm lt grn halo		100
17R	2	5	49		31	31	0.1				100				C			100
17R	2	5	49		22	24	0.1		40		30	30			C			100
17R	2	5	49		24	26	0.1		100						C	1mm lt grn halo		100
17R	2	5	49		18	24	0.1	v	40		50	10			C			100
17R	2	5	49		30	33	0.2		38		60	2			C	3 mm lt grn halo		100
17R	2	5	49		30	35	0.2	v	18		80	2			C	3 mm lt grn halo		100
17R	2	5	49		21	22	0.6		95		5				C	1 mm lt grn halo		100
17R	2	5	49		19	28	2		10		90				C	3 mm lt grn halo		100
17R	2	5	49		28	30	9		2		98				C	3 mm lt grn halo		100
17R	2	6	49		38	40	-		5		90				A	breccia, basalt clast	45	95
17R	2	7	49		41	50	0.3		30		20	10			C			60
17R	2	7	49		55	55	0.1	v	100						C			100
17R	2	7	49		53	58	0.1		95			5			C			100
17R	2	7	49		48	51	0.2		75		20	5			C			100
17R	2	7	49		55	59	0.2	v	35		60	5			C			100
17R	2	7	49		52	59	0.2		50		50				C			100
17R	2	7	49		40	50	0.2	v	90			10			C			100
17R	2	7	49		59	60	1	v	30		70				C			100
17R	2	7	49		60	71	1		40		60				C			100
17R	2	9	49		83	83	0.1		100						C			100
17R	2	9	49		95	95	0.1		100						C			100
17R	2	9	49		99	100	0.1		45		50	5			C			100
17R	2	9	49		91	93	0.1		80		18	2			C			100
17R	2	9	49		93	97	0.1		25		70	5			C			100
17R	2	9	49		85	90	0.6		45		45	10			C			100
17R	2	9	49		92	98	0.7		5		95				C			100
17R	2	9	49		78	87	0.9	v	30		65	5			C			100
17R	2	9	49		78	78	1		80		20				C			100
17R	2	10	49		116	116	0.1		100						C			100
17R	2	10	49		109	111	0.1		90			10			C			100
17R	2	10	49		104	108	0.1	v	90		10				C			100
17R	2	10	49		105	115	0.1		100						C			100
17R	2	11	49		128	128	0.1		40		50	10			C			100
17R	2	11	49		125	126	0.1		100						C			100
17R	2	11	49		122	125	0.1	v	15	5	70	10			C			100
17R	2	11	49		125	130	0.1	v	90			10			C			100
17R	2	11	49		120	130	0.3	v	15	5	70	10			C			100
17R	2	11	49		120	125	0.8	v	25	15	50	10			C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
17R	2	12	49		130	133	0.1	v	45		50	5			C			100
17R	2	12	49		135	139	0.1	v	98			2			C			100
17R	2	12	49		130	138	0.2	v	98			2			C			100
17R	2	12	49		133	138	0.3	v	10	10	60	20			C			100
17R	2	12	49		130	134	0.6	v	10	10	60	20			C			100
17R	2	13	49		142	143	0.1		100						C			100
17R	2	13	49		140	143	0.1	v	100						C			100
17R	2	13	49		142	146	0.1	v				100			C			100
17R	2	13	49		141	148	0.2	v	80		15	5			C			100
17R	2	13	49		146	147	0.7		40		60				C			100
17R	2	13	49		140	147	1	v	10		90				C			100
17R	2	7,8	49		71	76	-		5		15		80		B	interplw, 5 mm lt grn halo	30	100
17R	3	2	49		36	36	0.1		70		10	20			C			100
17R	3	2	49		15	15	0.1		20		40	40			C			100
17R	3	2	49		13	13	0.1		10		30	60			C			100
17R	3	2	49		31	32	0.1					100			C			100
17R	3	2	49		8	10	0.1	v				100			C			100
17R	3	2	49		28	32	0.1	v				100			C			100
17R	3	2	49		13	19	0.1	v	50		30	20			C			100
17R	3	2	49		17	28	0.2		20		50	30			C			100
17R	3	4	49													rubble		0
17R	3	5	49		62	64	0.1	v	70			30			C			100
17R	3	5	49		79	82	0.1		70			30			C			100
17R	3	5	49		74	78	0.1		80			20			C			100
17R	3	5	49		66	72	0.1	v	40			60			C			100
17R	3	5	49		67	70	0.2		30			70			C			100
17R	3	5	49		69	71	1.2		20		70	10			C			100
17R	3	7	49		92	98	0.1	v	30		40	30			C			100
17R	3	8	49		99	102	0.1	v	80			20			C			100
17R	3	8	49		100	103	0.1		80			20			C			100
17R	3	9	49		106	110	0.1	v	100						C			100
17R	3	9	49		108	114	0.2		100						C			100
17R	3	9	49		108	115.2	0.2		100						C			100
17R	3	10	49		116	118	-		10		15		70	5	B	interpillow	70	100
17R	3	10	49		137	143	-		12		10		75	3	B	interpillow sediment	100	100
17R	3	10	49		119	119	0.1		50		50				C			100
17R	3	10	49		133	134	0.1		20		70	10			C			100
17R	3	10	49		127	131	0.1	v	70			30			C			100
17R	3	10	49		120	124	0.1		50		50				C			100
17R	3	10	49		117	122	0.1	v	50		50				C			100
17R	3	10	49		126	136	0.1	v	40			60			C			100
17R	3	10	49		125	126	0.2		70		27	3			C			100
17R	3	10	49		118	125	0.6	v	40		50	10			C			100
17R	3	10	49		133	136	0.7		60		40				C			100
17R	3	10	49		132	133	0.9		20		70	10			C			100
17R	3	10	49		135	137	0.9		60		40				C			100
17R	4	1	50		0	5	-			7			90	3	B	inter pillow green sed?	100	100
17R	4	2	50		7	9	-			80	18			2	B	inter pillow green sed/Breccia?	75	100
17R	4	3	50		11	14	-			80	18			2	B	interpillow green sed (Breccia?)	100	100
17R	4	3	50		17	18	10			59	39			2	C			100
17R	4	4	50		28	33	-		10		90				B	interpillow sedim	90	100
17R	4	4	50		41	47	-		15		83			2	B	interpillow sediment	100	100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti- cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
17R	4	4	50		61	61	0.1		50			50			C			100
17R	4	4	50		60	60	0.1				100				C			100
17R	4	4	50		53	54	0.1		30		70				C			100
17R	4	4	50		57	59	0.1		20		80				C			100
17R	4	4	50		46	49	0.1	v	100						C			100
17R	4	4	50		36	40	0.1		80			20			C			100
17R	4	4	50		48	52	0.1	v	50		50				C			100
17R	4	4	50		56	60	0.1		40		60				C			100
17R	4	4	50		61	67	0.1		50		50				C			100
17R	4	4	50		52	52	0.2		20		80				C			100
17R	4	4	50		54	55	0.6		35		60			5	C			100
17R	4	4	50		52	53	0.7		28		70	2			C			100
17R	4	4	50		57	61	1		28		70	1		1	C			100
17R	4	5	50		69	87	3		5		25		70		C	3 mm dk grn hslo		100
17R	4	5	50		67	69	13		5		10		85		C			100
17R	4	6	50		87	91	-		10		15		75		B	interpillow green silicified sed	100	100
17R	4	7	50		106	109	0.1	v	100						C			100
17R	4	7	50		110	114	0.1		95			5			C			100
17R	4	7	50		100	104	0.1	v	100						C			100
17R	4	7	50		112	118	0.1	v	80		15	5			C			100
17R	4	7	50		91	100	0.1	v	100						C			100
17R	4	7	50		107	110	0.4		28		70	2			C			100
17R	4	7	50		97	97	0.5		50		50				C	2mm co3 halo		100
17R	4	7	50		98	100	0.6		19		80	1			C			100
17R	4	8	50		123	125	0.1		100						C			100
17R	4	9	50													rubble		0
17R	5	1	50		3	10	0.1	v	75		20	5			C			100
17R	5	1	50		3	6	0.2	v	75		20	5			C			100
17R	5	1	50		3	4	0.3		60		30	10			C			100
17R	5	1	50		3	9	0.3	v	60		30	10			C			100
17R	5	2	50		16	16	0.1		70		20	10			C			100
17R	5	2	50		15	16	0.1		60		30	10			C			100
17R	5	3	50		20	27	0.2	v	60		30	10			C			100
17R	5	3	50													rubble		0
17R	5	4	50		28	30	0.1	v	15		85				C			100
17R	5	4	50		30	34	0.1	v	20			80			C			100
17R	5	4	50		30	33	0.2		50		50				C			100
17R	5	4	50		29	33	0.2	v	26		70	2		2	C	1 mm py halo		100
17R	5	4	50		27	33	0.2	v	8		90			2	C			100
17R	5	4	50		32	34	1		30		60			10	C			100
17R	5	4	50		31	32	2		40		60				C			100
17R	5	4	50		27	28	5		100						C			100
17R	5	4	50		27	29	7	v	5		95				C			100
18R	1	2	50		5	6	0.1		70		30				C			100
18R	1	2	50		5	8	0.1		50		30			20	C			100
18R	1	2	50		5	9	0.2		100						C			100
18R	1	5	50		29	32	-		20		80				B	interpillow	80	100
18R	1	5	50		26	26	0.1		25		60	15			C			100
18R	1	5	50		28	29	0.1		80		5	15			C			100
18R	1	5	50		21	30	0.1		70		20	10			C	rubble		100
18R	1	5	50		24	25	0.2		60		40				C			100
18R	1	5	50		32	36	0.2		70		30				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
18R	1	6	50		32	36	0.1		40		60				C	rubble		100
18R	1	6	50		38	38	0.2		20		50	30			C			100
18R	1	7	50		43	43	0.1				30	70			C			100
18R	1	8	50		49	49	0.1		30		30	40			C	0.8 mm py halo		100
18R	1	9	50		50	53	1		10		90				C			100
18R	1	10	50		67	67	0.1				20	80			C			100
18R	1	10	50		83	85	0.1					100			C			100
18R	1	10	50		69	73	0.1				80	20			C			100
18R	1	10	50		73	76	0.2				90	10			C			100
18R	1	10	50		93	97	0.2		10		70	20			C			100
18R	1	10	50		61	69	0.2				30	70			C			100
18R	1	10	50		55	60	0.3				40	60			C			100
18R	1	10	50		84	89	0.4		10		40	50			C			100
18R	1	11	50		101	102	0.1		25		70	5			C			100
18R	1	12	50													rubble		0
18R	1	13	50		108	116	1.5		80		20				C			100
18R	1	13	50		108	111	4		80		20				C			100
18R	1	14	50		112	115	-		100						A	hyaloclastite	10	100
18R	1	15	50													rubble		0
18R	1	16	50		128	129	0.1		30		60	10			C			100
18R	1	16	50		122	126	0.1		10		90				C			100
18R	1	16	50		130	135	0.1		40		60				C			100
18R	1	16	50		126	133	0.1		40		60				C			100
18R	1	16	50		126	128	0.2		40		60				C			100
18R	1	16	50		122	126	0.5		5		95				C			100
18R	1	17	50		138	140	0.2		10		90				C			100
18R	1	17	50		137	141	0.2		10		90				C			100
18R	1	17	50		138	142	0.2		20		80				C			100
18R	1	17	50		139	140	0.3		60		33	2		5	C			100
18R	1	17	50		138	142	0.3		55		40	2		3	C			100
18R	2	1	50		2	5	0.1	v	10		50			40	C			100
18R	2	1	50		8	8	0.2		70		30				C			100
18R	2	1	50		2	4	0.2		100						C			100
18R	2	1	50		1	3	0.3	v			95			5	C			100
18R	2	1	50		1	6	0.3		10		80	2		8	C			100
18R	2	1	50		1	3	0.4	v			90			10	C			100
18R	2	1	50		4	4	0.5		35		60			5	C			100
18R	2	1	50		4	7	0.6		50		40			10	C			100
18R	2	1	50		3	8	1	v	45		50			5	C			100
18R	2	2	50		10	10	0.2		75		20			5	C	rubble		100
18R	2	3	50		15	15	0.1		80		15	5			C			100
18R	2	4	50		20	20	0.1		85		10			5	C	rubble		100
18R	2	5	50		28	28	0.1		45		50			5	C			100
18R	2	5	50		26	27	0.1		5		95				C			100
18R	2	5	50		23	25	0.1		8		90			2	C			100
18R	2	5	50		27	29	0.1		70		30				C			100
18R	2	5	50		25	30	0.1		100						C			100
18R	2	5	50		25	26	0.2	v	15		80	2		3	C			100
18R	2	5	50		23	24	0.3		10		80			10	C			100
18R	2	5	50		28	30	0.3		75		20			5	C			100
18R	2	5	50		25	25	0.4		15		80	2		3	C			100
18R	2	5	50		24	26	0.5		7		90	1		2	C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
18R	2	5	50		25	30	0.6		60		10			30	C			100
18R	2	5	50		22	26	2		15		80			5	C			100
18R	2	6	50		44	44	0.1		80		18	2		1	C			101
18R	2	6	50		48	49	0.1	v	50			50			C			100
18R	2	6	50		48	50	0.1		60			40			C	1 mm py halo		100
18R	2	6	50		39	42	0.1	v	90		8	2			C			100
18R	2	6	50		61	64	0.1	v	90		8	2			C			100
18R	2	6	50		36	39	0.1		87		10	3			C			100
18R	2	6	50		48	51	0.1	v	60			40			C			100
18R	2	6	50		67	70	0.1					100			C			100
18R	2	6	50		67	70	0.1		60		40				C			100
18R	2	6	50		33	37	0.1		80			20			C			100
18R	2	6	50		34	38	0.1		90		10				C			100
18R	2	6	50		55	61	0.1	v	52		45	3			C			100
18R	2	6	50		39	47	0.1		80		15	5			C			100
18R	2	6	50		50	60	0.1	v	95			5			C			100
18R	2	6	50		47	48	0.3		80		10	10			C			100
18R	2	6	50		46	49	0.4		60		35	5			C			100
18R	2	6	50		63	68	0.8		20		80				C			100
18R	2	6	50		53	58	1		30		70				C			100
18R	2	6	50		64	64	1.2		10		90				C			100
18R	2	6	50		72	77	10		70		10		19	1	C			100
18R	2	7	50		91	91	0.1		50		50				C			100
18R	2	7	50		108	108	0.1		100						C			100
18R	2	7	50		77	79	0.1	v	93		5	2			C			100
18R	2	7	50		98	100	0.1		60		35			5	C			100
18R	2	7	50		91	94	0.1		50		50				C			100
18R	2	7	50		97	100	0.1	v	80		15			5	C			100
18R	2	7	50		77	81	0.1		98			2			C	1 mm py halo		100
18R	2	7	50		98	102	0.1	v	50		50				C			100
18R	2	7	50		98	98	0.2		45		50			5	C			100
18R	2	7	50		85	92	0.2		80		18			2	C			100
18R	2	7	50		111	111	0.4	v	38		60	2			C			100
18R	2	7	50		98	98	0.5		50		50				C			100
18R	2	7	50		114	114	0.5		100						C			100
18R	2	7	50		80	82	0.5		33		60	5		2	C			100
18R	2	7	50		92	99	0.9	v	65		30	2		3	C			100
18R	2	7	50		101	101	1		27		70	1		2	C			100
18R	2	7	50		79	83	1		58		35	5		2	C	1-10 mm diffuse halo		100
18R	2	7	50		90	94	1.1		60		40				C			100
18R	2	8	50		118	121	0.1	v	90			10			C			100
18R	2	8	50		119	122	0.1	v	100						C			100
18R	2	8	50		116	122	0.1	v	100						C			100
18R	2	9	50		124	124	0.1		30					70	C			100
18R	2	9	50		125	125	0.1		80					20	C			100
18R	2	9	50		123	127	0.1	v	60					40	C			100
18R	2	9	50		123	127	0.1		20					80	C			100
18R	2	10	50		128	130	0.1	v	10					90	C			100
18R	2	10	50		129	161	0.1		100						C			100
18R	2	10	50		127	130	0.2		40					60	C			100
18R	2	11	50		131	133	0.1	v	90					10	C			100
18R	2	12	50		136	136	0.3		100						C	Rubble piece		100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
18R	2	13	50		146	146	0.1		47		50	3			C			100
18R	2	13	50		142	146	0.1		47		50	3			C			100
18R	2	13	50		140	142	0.2		45		50	5			C			100
18R	3	1	50		1	2	0.1		70		25			5	C			100
18R	3	1	50		6	8	0.1		80		20				C	rubble		100
18R	3	1	50		1	5	0.1		25		70			5	C			100
18R	3	2	50		12	12	0.4		42		50	8			C			100
19R	1	1	50		1	2	0.1		100						C			100
19R	1	1	50		0	2	0.2	v	100						C			100
19R	1	1	50		2	4	0.4		100						C			100
19R	1	2	50		7	7	0.1		100						C	rubble		100
19R	1	3	50		15	15	0.1		50		40	8		2	C			100
19R	1	3	50		12	14	0.1	v	100						C			100
19R	1	3	50		19	23	0.1		85		10	3		2	C			100
19R	1	3	50		18	18	0.2		80		15	5			C			100
19R	1	3	50		17	17	0.2		60		40				C			100
19R	1	3	50		12	14	0.2		90		10				C			100
19R	1	3	50		23	29	0.2		40		60				C			100
19R	1	3	50		23	26	1		90		8	2			C			100
19R	1	3	50		25	29	1.2	v	90		8	2			C			100
19R	1	4	50		37	37	0.1		20			80			C			100
19R	1	4	50		47	56	0.1	v	50		30	20			C			100
19R	1	4	50		51	55	0.2		50		30			20	C			100
19R	1	4	50		73	84	0.2	v	40		55			5	C			100
19R	1	4	50		59	77	0.2		28		70	2			C			100
19R	1	4	50		59	62	0.3		17		75	5		3	C			100
19R	1	4	50		30	34	0.3	v	92			6		2	C			100
19R	1	4	50		37	40	0.4		90		2	6		2	C			100
19R	1	4	50		43	46	1.3	v	5		95				C			100
19R	1	4	50		38	50	3		95			3		2	C			100
19R	1	5	50		86	86	0.2		100						C			100
19R	1	6	50		89	92	0.1	v	100						C			100
19R	1	6	50		95	95	0.2		30		65	2		3	C			100
19R	1	7	50		100	105	0.1	v	100						C			100
19R	1	7	50		100	100	0.4		85		5	2		8	C			100
19R	1	8	50		109	109	0.3		35		50	15			C			100
19R	1	9	50		117	119	0.2		99			1			C			100
19R	1	10	50		125	125	0.3		100						C	rubble		100
19R	1	12	50		132	133	0.1		100						C			100
19R	1	12	50		131	133	0.1	v	100						C			100
19R	1	12	50		134	134	0.2		85			15			C			100
19R	1	12	50		132	134	0.2	v	95			5			C			100
19R	1	12	50		136	139	0.3		30		67	2		1	C			100
19R	1	12	50		139	144	0.3		85		10	5			C			100
19R	1	13	50		145	148	0.1	v	94			2		4	C			100
19R	2	1	50		1	4	-		80		20				A	hyaloclastic breccia	70	100
19R	2	2	50		6	11	-		50		50				A	hyaloclastic breccia	85	100
19R	2	3	50		13	18	-		70		30				A	hyaloclastic breccia	90	100
19R	2	4	50		21	28	-		60		40				A	hyaloclastic breccia	40	100
19R	2	5	50		35	35	0.1		90		10				C			100
19R	2	5	50		32	35	0.1	v	95			5			C			100
19R	2	5	50		32	35	0.1	v	95			5			C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
19R	2	5	50		47	50	0.1	v	95			5			C			100
19R	2	5	50		43	46	0.1		65		30	10			C			105
19R	2	5	50		35	46	0.1	v	48		50	2			C			100
19R	2	5	50		47	60	0.1	v	70		25	5			C			100
19R	2	5	50		56	60	0.2		30		70				C			100
19R	2	5	50		46	46	0.9		9		90	1			C			100
19R	2	6	50		64	64	0.1		95			5			C			100
19R	2	6	50		65	65	0.1		60			30		10	C			100
19R	2	6	50		61	62	0.1		70			30			C			100
19R	2	6	50		61	66	0.1	v	90		5	5			C			100
19R	2	7	50		69	69	0.1		80		20				C			100
19R	2	7	50		68	69	0.1		80		20				C			100
19R	2	7	50		70	71	0.1		85		10			5	C			100
19R	2	7	50		68	72	0.1		90		10				C			100
19R	2	9	50		78	78	0.1		97			3			C			100
19R	2	9	50		81	81	0.1		90			10			C			100
19R	2	9	50		94	94	0.1		100						C			100
19R	2	9	50		85	87	0.1		90			10			C			100
19R	2	9	50		85	88	0.1		70		25			5	C			100
19R	2	9	50		91	95	0.1		80		10			10	C			100
19R	2	9	50		80	85	0.1	v	70		15	5		10	C			100
19R	2	9	50		77	86	0.1	v	50		40	8		2	C			100
19R	2	9	50		82	100	0.1	v	90		5	5			C			100
19R	2	9	50		82	85	0.2		20		75			5	C			100
19R	2	9	50		80	85	0.6	v	10		80	2		8	C			100
19R	2	9	50		88	92	0.8	v	20		60			20	C			100
19R	2	11	50		105	112	0.1	v	90			10			C			100
19R	2	11	50		112	120	0.3	v	25		70	5			C			100
19R	2	11	50		105	120	0.3	v	10		85	5			C			100
19R	3	1	50		8	9	0.1		60		30	10			C	halo with vesicules		100
19R	3	1	50		38	39	0.1		10		90				C			100
19R	3	1	50		1	3	0.1	v	95			5			C			100
19R	3	1	50		2	10	0.1	v	90			10			C			100
19R	3	1	50		21	23	0.2		30		60	10			C			100
19R	3	1	50		17	19	0.3		25		70	5			C			100
19R	3	1	50		13	17	0.5	v	10		90				C			100
19R	3	1	50		22	34	0.6		48		50	1		1	C			100
19R	3	1	50		13	13	0.7		17		80	3			C			100
19R	3	1	50		25	42	1.6		35		50	5		10	C	1 mm halo dark green with py		100
19R	3	2	50		46	49	0.1	v	60			40			C			100
19R	3	2	50		43	49	0.1		60			40			C			100
19R	3	3	50		55	55	0.1		90		5	5			C			100
19R	3	3	50		52	55	0.1		95			5			C			100
19R	3	3	50		50	54	0.1	v	100						C			100
19R	3	3	50		50	55	0.1		100						C			100
19R	3	4	50		66	66	1		20		80				C	Rubble		100
19R	3	5	50		76	86	0.7	v	8		90	2			C			100
20R	1	1	50		0	4	-		100						A	Breccia with clasts of altered glass	30	100
20R	1	4	50		12	13	0.2		90					10	C			100
20R	1	4	50		12	12	0.5		50		50				C			100
20R	1	4	50		11	12	4		50		50				C			100
20R	1	5	50		14	17	0.3		60		40				C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
20R	1	5	50		14	18	0.5	v	90					10	C			100
20R	1	6	50		23	23	0.2		100						C			100
20R	1	6	50		20	22	0.6		90					10	C			100
20R	1	6	50		22	26	0.6	v	90					10	C			100
20R	1	6	50		19	28	2	v	60		40				C			100
20R	1	7	50		31	33	0.1		50		50				C			100
20R	1	7	50		43	44	0.3		10		90				C			100
20R	1	7	50		36	39	0.3		40		50	10			C			100
20R	1	7	50		51	54	0.3				100				C			100
20R	1	7	50		46	54	0.3		10		90				C			100
20R	1	7	50		46	56	0.5		10		90				C			100
20R	1	7	50		59	62	1		9		90			1	C			100
20R	1	7	50		54	55	2		10		90				C			100
20R	1	7	50		60	63	10		10		10		80		C			100
20R	1	8	50		64	68	1	v	90		10				C			100
20R	1	8	50		67	68	8		10		10		80		C			100
20R	1	9	50		79	79	0.2		100						C			100
20R	1	9	50		75	80	0.2	v	100						C			100
20R	1	9	50		72	80	0.4	v	100						C			100
20R	1	9	50		70	79	0.4	v	100						C			100
20R	1	9	50		75	75	6		100						C			100
20R	1	10	50		85	85	0.3		90		5		5		C			100
20R	1	10	50		81	91	0.4	v						5	C			5
20R	1	10	50		83	86	0.5	v	95					5	C			100
20R	1	10	50		86	86	3			100					C			100
20R	1	10	50		90	92	3		40		60				C			100
20R	1	10	50		82	83	5		30		70				C			100
20R	1	11	50		103	103	0.1		100						C			100
20R	1	11	50		103	104	0.1		100						C			100
20R	1	11	50		98	98	0.2		98			2			C			100
20R	1	11	50		93	95	0.2	v	95					5	C			100
20R	1	11	50		93	104	0.2	v	95					5	C			100
20R	1	11	50		93	93	2		40		60				C			100
20R	1	12	50		114	118	0.1		100						C			100
20R	1	12	50		106	110	0.5	v	40		10			50	C			100
20R	1	12	50		107	110	0.6		40		60				C			100
20R	1	12	50		106	113	0.6		18		80			2	C			100
20R	1	12	50		118	119	0.8		45		50			5	C			100
20R	1	12	50		108	112	1	v	10		90				C			100
20R	1	12	50		105	106	2		10		90				C			100
20R	1	13	50		121	124	0.3	v	99					1	C			100
20R	1	14	50		127	127	0.1							100	C			100
20R	1	15	50		130	135	0.1		100						C			100
20R	1	15	50		130	135	0.5	v	100						C			100
20R	1	15	50		130	132	1.5				100				C			100
20R	1	16	50		136	138	0.1	v						100	C			100
20R	1	17	50		142	143	-		40		60				B	interpillow	100	100
20R	1	2 to 3	50													Rubble		0
20R	2	1	50		101	101	0.2		100						C			100
20R	2	1	50		2	3	0.2		100						C			100
20R	2	1	50		4	6	0.2		100						C			100
20R	2	1	50		44	47	0.2		98			2			C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
20R	2	1	50		66	72	0.2		9		90	1			C			100
20R	2	1	50		75	86	0.4		49		50			1	C			100
20R	2	1	50		40	40	0.5				100				C			100
20R	2	1	50		17	19	0.5				100				C			100
20R	2	1	50		13	16	0.5		8		90			2	C			100
20R	2	1	50		14	17	0.5		8		90			2	C			100
20R	2	1	50		24	28	0.5				100				C			100
20R	2	1	50		87	88	0.6		39		60			1	C			100
20R	2	1	50		56	57	0.8		10		90				C			100
20R	2	1	50		18	20	1		15		80	5			C			100
20R	2	1	50		7	9	1		5		95				C			100
20R	2	1	50		42	43	1.5				100				C			100
20R	2	1	50		28	42	1.5		40		60				C			100
20R	2	1	50		58	67	1.8		15		85				C			100
20R	2	1	50		98	106	2	v	100						C			100
20R	2	1	50		68	82	2		80		20				C			100
20R	2	1	50		89	106	5	v	60		40				C			100
20R	2	2	50		102	108	-		100						A	breccia with alt glass	30	100
20R	2	3	50		110	112	-		60		40				A	interpillow, breccia with alt glass	80	100
20R	2	4	50		114	117	-		50		50				A	interpillow, breccia with alt glass	30	100
20R	2	5	50		118	121	-		60		40				A	interpillow, breccia with alt glass	80	100
20R	2	6	50		122	124	-		60		40				A	interpillow, breccia with alt glass	75	100
20R	2	6	50		125	126	1		100						C			100
20R	2	6	50		125	127	1.5	v	100						C			100
20R	2	7	50		131	134	0.2	v	100						C			100
20R	2	7	50		133	134	0.5		90		9	1			C			100
20R	2	7	50		131	135	0.6	v	100						C			100
20R	2	8 to 10	50													Rubble		0
20R	3	1	50													Rubble		0
20R	3	2	50		12	13	1				100				C			100
20R	3	2	50		8	18	1	v	5		95				C			100
20R	3	3	50													Rubble		0
20R	3	4	50		24	27	0.5	v			100				C			100
20R	3	5	50													Rubble		0
20R	3	6	50		36	39	0.1		99					1	C			100
20R	3	6	50		36	39	0.2	v	90		10				C			100
20R	3	7	50		41	45	0.2		100						C			100
21R	1	1	50		2	3	0.2				100				C			100
21R	1	2	50		5	8	0.1	v	100						C			100
21R	1	3	50		10	14	0.1	v	9		90	1			C			100
21R	1	3	50		14	17	0.2		9		90	1			C			100
21R	1	3	50		23	26	0.2		9		90	1			C			100
21R	1	3	50		27	33	0.2		95			5			C			100
21R	1	3	50		10	11	0.5		9		90	1			C			100
21R	1	3	50		10	18	0.5				100				C			100
21R	1	3	50		31	32	0.8	v	5		95				C			100
21R	1	4	50		69	70	0.1		100						C			100
21R	1	4	50		49	50	0.2		98			2			C			100
21R	1	4	50		55	59	0.2		98			2			C			100
21R	1	4	50		68	69	0.3		9		90	1			C			100
21R	1	4	50		34	35	0.3		20		80				C			100
21R	1	4	50		60	63	0.4		9		90	1			C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
21R	1	4	50		47	50	0.4	v	98			2			C			100
21R	1	4	50		43	46	0.4		55		40	5			C			100
21R	1	4	50		69	73	0.4		9		90	1			C			100
21R	1	4	50		35	40	0.8		35		60	5			C			100
21R	1	4	50		39	44	0.8	v	15		80	5			C			100
21R	1	4	50		71	74	1		10		90				C			100
21R	1	5	50		77	83	0.5		5		95				C			100
21R	1	5	50		75	80	1.2		5		95				C			100
21R	1	6	50		134	134	0.1		99			1			C			100
21R	1	6	50		115	120	0.3	v	10		90				C			100
21R	1	6	50		130	134	0.4				100				C			100
21R	1	6	50		93	98	0.6		10		90				C			100
21R	1	6	50		93	130	0.6	v	10		90				C			100
21R	1	6	50		138	141	1		4		95	1			C			100
21R	1	6	50		117	121	1		9		90	1			C			100
21R	2	1	50		0	4	0.2		100						C			100
21R	2	1	50		11	12	0.5		95			5			C			100
21R	2	1	50		8	20	2.5		9		90	1			C			100
21R	2	2	50		22	29	1	v	60		40				C			100
21R	2	3	50		30	33	0.4			100					C			100
21R	2	3	50		36	45	0.5	v	40		60				C			100
21R	2	3	50		32	35	0.6	v		100					C			100
21R	2	3	50		45	48	1	v	10		90				C			100
21R	2	3	50		32	42	1.5			5	95				C			100
21R	2	3	50		31	34	5			2	8		90		C			100
21R	2	4	50		49	52	0.2	v	100						C			100
21R	2	4	50		52	52	2		20		80				C			100
21R	2	4	50		53	53	3				100				C			100
21R	2	4	50		49	52	5	v	60		40				C			100
21R	2	5	50		55	57	1.5	v			100				C			100
21R	2	5	50		55	67	1.5	v	5		85				C			90
21R	2	5	50		67	68	2				100				C			100
21R	2	6	50		69	74	-		15	5	75		5		B	interpillow	100	100
21R	2	6	50		78	87	0.2	v	10		90				C			100
21R	2	6	50		104	112	0.3	v	100						C			100
21R	2	6	50		103	103	0.4				100				C			100
21R	2	6	50		100	101	0.6		10		90				C			100
21R	2	6	50		95	97	0.8		10		90				C			100
21R	2	6	50		87	104	1.5	v	10		90				C			100
21R	2	6	50		86	87	2		5		95				C			100
21R	2	6	50		87	105	2.5	v	10		90				C			100
21R	3	1	50		74	74	0.1				100				C			100
21R	3	1	50		65	66	0.1					100			C			100
21R	3	1	50		62	74	0.3	v	9		90	1			C			100
21R	3	1	50		50	50	0.5		10		90				C			100
21R	3	1	50		63	65	0.5		95			5			C			100
21R	3	1	50		3	8	0.6		10		90				C			100
21R	3	1	50		47	52	1.5		10		90				C			100
21R	3	1	50		73	75	2	v	10		90				C			100
21R	3	1	50		4	25	2		5		90		5		C			100
21R	3	1	50		11	25	5	v	10		60		30		C			100
21R	3	1	50		25	52	6		5		80		15		C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
21R	3	2	50		76	80	2	v	15		85				C			100
21R	3	3	50		81	82	0.1					100			C			100
21R	3	3	50		84	86	0.8				100				C			100
21R	3	3	50		80	86	1	v	10		90				C			100
21R	3	4	50		88	90	-		10		90				A	Breccia interpillow	100	100
21R	3	5	50		92	94	-		10		90				A	Breccia interpillow	50	100
21R	3	5	50		96	98	-		10		90				A	Breccia interpillow	50	100
21R	3	6	50		99	101	-		10		90				A	Breccia interpillow	100	100
21R	3	7	50		103	105	-		30		30		40		A	Breccia interpillow	100	100
21R	3	8	50		106	108	-		20		60		20		A	Breccia interpillow	100	100
22R	1	1	50													rubble		0
22R	1	2	50		11	15	0.1	v				100			C			100
22R	1	2	50		11	20	0.1	v				100			C			100
22R	1	2	50		22	24	0.5		10		90				C			100
22R	1	2	50		28	29	0.8	v	5		95				C			100
22R	1	2	50		18	22	1		80					20	C			100
22R	1	2	50		23	29	1		70		30				C	2 mm dark halo		100
22R	1	2	50		22	24	1.1				100				C			100
22R	1	3	50		37	38	0.2		5		95				C			100
22R	1	3	50		33	37	0.5	v	5		95				C			100
22R	1	3	50		30	33	1		5		95				C			100
22R	1	3	50		35	37	1.5				100				C			100
22R	1	3	50		37	40	1.5		5		95				C			100
22R	1	3	50		40	40	3		70		30				C			100
22R	1	4	50		94	96	-		40		60				A	Breccia interpillow	75	100
22R	1	4	50		41	47	-			5	70		25		B	interpillow	100	100
22R	1	4	50		91	91	0.1		100						C			100
22R	1	4	50		53	54	0.1	v	5		95				C			100
22R	1	4	50		60	61	0.1		95		5				C			100
22R	1	4	50		88	89	0.1		100						C			100
22R	1	4	50		74	76	0.1		100						C			100
22R	1	4	50		48	52	0.1	v	95			5			C			100
22R	1	4	50		88	92	0.1	v	100						C			100
22R	1	4	50		47	56	0.3		10		90				C			100
22R	1	4	50		79	79	0.3				100				C			100
22R	1	4	50		86	88	0.3		100						C			100
22R	1	4	50		92	94	0.3		100						C			100
22R	1	4	50		74	74	0.4		5		95				C			100
22R	1	4	50		69	84	0.5		90		8			2	C	5 mm dark halo		100
22R	1	4	50		87	88	2.5		10		90				C			100
22R	1	4	50		84	96	3		90		8			2	C			100
22R	1	4	50		84	84	9		25		75				C			100
22R	1	4	50		68	68	12		5		90		5		C			100
22R	1	5	50		97	100	-		40		60				B	interpillow	50	100
22R	1	6	50		108	110	-		65				30	5	B	interpillow sed	100	100
22R	1	7	50		112	121	2.7	v	100						C			100
22R	1	8	50		122	124	-		55		35		10		B	interpillow	100	100
22R	2	1	50		17	23	-		15		55		30		B	interpillow	100	100
22R	2	1	50		9	10	0.2		100						C			100
22R	2	1	50		13	14	0.2		100						C			100
22R	2	1	50		14	15	0.2		100						C			100
22R	2	1	50		1	5	0.2		100						C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
22R	2	1	50		1	17	0.5	v	100						C			100
22R	2	1	50		22	56	0.6	v	100						C			100
22R	2	1	50		5	5	1.5		100						C			100
22R	2	1	50		0	1	2		100						C			100
22R	2	2	50		92	95	0.1					100			C			100
22R	2	2	50		61	65	0.1		98		2				C			100
22R	2	2	50		97	101	0.1				100				C			100
22R	2	2	50		35	35	0.2		10		90				C			100
22R	2	2	50		88	89	0.2		98			2			C			100
22R	2	2	50		32	33	0.2		100						C			100
22R	2	2	50		43	44	0.2		100						C			100
22R	2	2	50		35	38	0.2		10		90				C	4 m dark halo + py		100
22R	2	2	50		70	74	0.2		90		8	2			C			100
22R	2	2	50		94	98	0.2				100				C			100
22R	2	2	50		113	117	0.2		100						C			100
22R	2	2	50		113	120	0.2	v	100						C			100
22R	2	2	50		87	95	0.2				100				C			100
22R	2	2	50		28	38	0.2		98			2			C			100
22R	2	2	50		73	89	0.2		90		8	2			C			100
22R	2	2	50		119	120	0.4		5		95				C			100
22R	2	2	50		52	57	0.4		10		90				C			100
22R	2	2	50		71	78	0.5		90		8	2			C			100
22R	2	2	50		97	106	0.8		80		20				C	6 mm dark halo + py		100
22R	2	2	50		107	113	1.1		30		70				C			100
22R	2	2	50		57	59	1.2		10		90				C			100
22R	2	2	50		36	39	1.2		60		40				C	4 mm dark halo + py		100
22R	2	2	50		104	111	1.3		10		90				C			100
22R	2	3	50		124	126	0.2	v	100						C			100
22R	2	4	50													rubble		0
22R	3	1	50		5	5	0.1		100						C			100
22R	3	1	50		3	4	0.1		100						C			100
22R	3	2	50		10	11	0.1		100						C			100
22R	3	3	50													rubble		0
22R	3	4	50		41	45	0.4		50		50				C			100
22R	3	4	50		37	39	0.5		40		50			10	C	2 mm dark halo		100
22R	3	4	50		39	40	0.6				100				C			100
22R	3	5	50		53	54	0.2		100						C			100
22R	3	5	50		46	49	0.2	v			100				C			100
22R	3	5	50		48	50	0.4		8		90	2			C			100
22R	3	5	50		46	49	0.4	v	5		95				C			100
22R	3	5	50		52	55	1	v	5		95				C			100
22R	3	6	50		66	67	0.2		100						C			100
22R	3	6	50		65	72	0.3		5		95				C			100
22R	3	6	50		61	66	0.4		8		90	2			C			100
22R	3	6	50		56	63	0.6	v	5		95				C			100
22R	3	6	50		70	70	0.8				100				C			100
22R	3	7	50		79	79	0.2		98			2			C			100
22R	3	7	50		86	86	0.2				100				C			100
22R	3	7	50		72	88	0.4		8		90	2			C			100
22R	3	8	50		89	97	0.2	v	95			5			C			100
22R	3	9	50		98	100	0.4	v			100				C			100
22R	3	10	50													rubble		0

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
22R	3	11	50		117	121	1	v	20		80				C			100
23R	1	1	50		0	3	0.2		50		50				C			100
23R	1	1	50		1	7	0.2	v	90		8	2			C			100
23R	1	2	50		9	9	0.6		10		90				C			100
23R	1	3	50		13	16	0.1	v	98			2			C			100
23R	1	3	50		27	30	0.1		100						C			100
23R	1	3	50		55	59	0.1	v	100						C			100
23R	1	3	50		22	30	0.1				100				C			100
23R	1	3	50		40	41	0.2		100						C			100
23R	1	3	50		45	46	0.2		50		50				C			100
23R	1	3	50		41	43	0.2		98			2			C			100
23R	1	3	50		30	32	0.2		95			5			C			100
23R	1	3	50		48	52	0.2		100						C			100
23R	1	3	50		56	61	0.2	v	98			2			C			100
23R	1	3	50		13	24	0.2	v	98			2			C			100
23R	1	3	50		51	56	0.3		40		60				C			100
23R	1	3	50		31	33	0.4		95			5			C			100
23R	1	3	50		53	59	0.5	v	8		90	2			C			100
23R	1	3	50		44	49	0.6		5		95				C	1 mm dark halo		100
23R	1	3	50		13	14	0.8				100				C			100
23R	1	3	50		12	14	0.8				100				C			100
23R	1	3	50		53	56	1		8		90	2			C			100
23R	1	4	50		63	67	0.2		90			10			C			100
23R	1	5	50		70	71	0.2		98			2			C			100
23R	1	5	50		71	72	0.2		100						C			100
23R	1	6	50		87	88	0.1		100						C			100
23R	1	6	50		83	87	0.1	v	98			2			C			100
23R	1	6	50		79	80	0.2		100						C			100
23R	1	6	50		86	87	0.3		95			5			C			100
23R	1	6	50		83	86	0.3				100				C			100
23R	1	6	50		77	90	1.2		5		95				C			100
23R	1	7	50													rubble		0
23R	1	8	50		105	109	1.5	v	10		90				C			100
23R	1	9	50		115	115	0.1		100						C			100
23R	1	9	50		109	113	0.1		98			2			C			100
23R	1	9	50		110	117	1	v			100				C			100
23R	1	10	50		119	120	0.6		5		95				C			100
23R	1	10	50		118	123	1	v	4		95	1			C			100
23R	2	1	50		35	37	0.2		8		90	2			C			100
23R	2	1	50		17	19	0.2		98			2			C			
23R	2	1	50		12	15	0.2		98			2			C			100
23R	2	1	50		30	35	0.2		8		90	2			C			100
23R	2	1	50		0	7	0.2	v			100				C			100
23R	2	1	50		22	31	0.2		98			2			C			100
23R	2	1	50		10	14	0.3		98			2			C			100
23R	2	1	50		1	9	0.3	v	48		50	2			C			100
23R	2	1	50		37	40	0.4	v			100				C			100
23R	2	1	50		28	32	0.4		5		95				C			100
23R	2	1	50		19	33	0.6	v	10		90				C			100
23R	2	1	50		17	19	1		60		40				C			100
23R	2	2	50		50	52	0.1		100						C			100
23R	2	2	50		45	48	0.1		100						C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
23R	2	2	50		47	52	0.1	v				100			C			100
23R	2	2	50		48	49	0.3		5		95				C			100
23R	2	3	50		53	55	0.1		100						C			100
23R	2	3	50		58	59	0.2		100						C			
23R	2	3	50		55	56	0.4		100						C			100
23R	2	3	50		57	58	0.5		10		90				C			100
23R	2	3	50		58	59	0.9				100				C			100
23R	2	3	50		55	57	1.5		10		90				C			100
23R	2	4	50													rubble		0
23R	2	5	50		74	75	0.1		100						C			100
23R	2	5	50		71	75	0.1		100						C			100
23R	2	5	50		71	78	0.1	v	100						C			100
23R	2	5	50		71	79	0.2	v	98					2	C			100
23R	2	5	50		76	76	0.4		100						C			100
23R	2	5	50		77	78	0.4		90		10				C			100
23R	2	6	50		85	87	0.1					100			C			100
23R	2	6	50		86	89	0.4	v			100				C			100
23R	2	6	50		90	91	0.5				100				C			100
23R	2	6	50		79	91	0.8	v	8		90	2			C			100
23R	2	6	50		86	86	1				100				C			100
23R	2	7	50		92	97	0.6		8		90	2			C	2 mm brown halo		100
23R	2	8	50		101	102	0.2		98			2			C			100
23R	2	8	50		103	104	0.2		100						C			100
23R	2	8	50		101	102	0.4		98			2			C			100
23R	2	8	50		105	106	0.4				100				C			100
23R	2	8	50		100	109	0.8		80		18	2			C			100
23R	2	8	50		101	101	1.5		5		95				C			100
23R	2	9	50		110	112	0.4	v	98			2			C			100
23R	2	10	50		115	115	0.1		98			2			C			100
23R	2	10	50		113	116	0.1	v	98			2			C			100
23R	2	11	50		120	121	0.1		100						C			100
23R	2	11	50		122	123	0.1		100						C			100
23R	2	11	50		124	125	0.1		100						C	3 mm dark halo + py		100
23R	2	11	50		118	123	0.3	v			100				C			100
23R	2	11	50		119	121	0.6		5		95				C			100
23R	2	12	50		132	134	0.1		100						C			100
23R	2	12	50		129	132	0.1		100						C			100
23R	2	12	50		137	144	0.1		50		50				C	3 mm dark halo + py		100
23R	2	12	50		142	143	0.3		5		95				C	3 mm dark halo + py		100
23R	2	12	50		137	142	0.3		5		95				C	3 mm dark halo + py		100
23R	2	12	50		134	140	0.8		5		95				C			100
23R	3	1	50		5	6	0.2	v	95			5			C			100
23R	3	1	50		4	7	0.2	v	95			5			C			100
23R	3	1	50		1	9	0.2	v	95			5			C			100
23R	3	1	50		0	10	0.2	v	95			5			C	2 mm dark halo		100
23R	3	2	50		12	12	0.1		100						C			100
23R	3	2	50		24	32	0.4	v	90		10				C			100
23R	3	2	50		11	23	0.5	v	18		80	2			C			100
23R	3	3	50		31	31	0.1		100						C			100
23R	3	3	50		45	46	0.1		100						C			100
23R	3	3	50		28	30	0.1		100						C			100
23R	3	3	50		43	45	0.1		100						C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
23R	3	3	50		46	48	0.1	v	100						C			100
23R	3	3	50		26	27	0.2		100						C			100
23R	3	3	50		37	40	0.2		98			2			C			100
23R	3	3	50		33	42	0.4	v	18		80	2			C			100
23R	3	3	50		27	35	1		8		90	2			C			100
23R	3	4	50													rubble		0
23R	3	5	50		51	61	0.1	v	100						C			100
23R	3	5	50		56	56	0.2		100						C			100
23R	3	5	50		59	60	0.3		10		90				C			100
23R	3	5	50		61	63	0.3		10		90				C			100
23R	3	5	50		55	64	0.6		8		90	2			C			100
23R	3	5	50		60	61	1.2				98	2			C			100
23R	3	6	50		76	77	0.1		100						C			100
23R	3	6	50		70	73	0.3		8		90	2			C			100
23R	3	6	50		80	80	0.4		8		90	2			C			100
23R	3	6	50		72	75	0.5		8		90	2			C			100
23R	3	6	50		77	80	0.5		8		90	2			C			100
23R	3	6	50		81	84	0.5	v	50		50				C			100
23R	3	6	50		66	83	0.5		8		90	2			C			100
23R	3	6	50		81	81	0.6		8		90	2			C			100
23R	3	7	50													rubble		0
23R	3	8	50													rubble		0
23R	3	9	50		115	116	0.2		100						C			100
23R	3	9	50		107	118	0.2	v	10		90				C			100
23R	3	9	50		103	104	0.3		10		90				C			100
23R	3	9	50		102	104	0.4		10		90				C			100
23R	3	9	50		99	99	0.5		10		90				C			100
23R	3	9	50		102	102	0.6				100				C			100
23R	3	9	50		107	109	0.6		10		90				C			100
23R	3	10	50		120	123	0.1	v	100						C			100
23R	3	10	50		120	122	0.3	v	10		90				C			100
23R	3	10	50		122	123	0.5				100				C			100
23R	3	11	50		128	129	0.1		100						C			100
23R	3	11	50		125	127	0.1		98			2			C			100
23R	3	11	50		127	129	0.1		100						C			100
23R	3	12	50													rubble		0
23R	4	1	50		4	5	0.1		100						C			100
23R	4	1	50		1	4	0.1	v	100						C			100
23R	4	1	50		6	7	0.8				100				C			100
23R	4	1	50		2	12	0.8	v	20		80				C			100
23R	4	1	50		2	12	1.2	v	5		95				C			100
23R	4	2	50		25	26	0.1		100						C			100
23R	4	2	50		18	26	0.1	v	100						C			100
23R	4	2	50		14	32	0.2	v	100						C			100
23R	4	2	50		17	18	0.4		5		95				C			100
23R	4	2	50		17	23	0.4	v			100				C			100
23R	4	2	50		34	39	0.8				100				C			100
23R	4	2	50		31	33	1.5		10		90				C			100
23R	4	2	50		17	40	2.5	v	10		90				C			100
23R	4	3	50		52	64	0.2	v	100						C			100
23R	4	3	50		44	44	0.4				100				C			100
23R	4	3	50		43	52	0.4	v			100				C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
23R	4	3	50		52	52	0.6		60		40				C			100
23R	4	3	50		61	68	1.2	v	40		60				C			100
23R	4	3	50		43	67	2	v	10		90				C			100
23R	4	4	50		70	80	25	v	5		15		80		C	Veins breccia like		100
23R	4	5	50													rubble-boil-bubble		0
23R	4	6	50		98	99	0.1		100						C	6 mm dark halo + py		100
23R	4	6	50		93	100	2	v	20		80				C	6 mm dark halo + py		100
24R	1	1	50		0	1	-		100						A	hyaloclastits	60	100
24R	1	2	50		5	7	0.1				100				C			100
24R	1	2	50		18	22	0.1	v	98			2			C			100
24R	1	2	50		11	12	0.2		100						C			100
24R	1	2	50		15	22	0.2	v	90		10				C			100
24R	1	2	50		22	24	0.5				100				C			100
24R	1	2	50		3	10	0.5	v	90		10				C	1 mm brn halo		100
24R	1	2	50		3	10	0.5	v	10		90				C			100
24R	1	2	50		13	22	0.8		90		10				C			100
24R	1	2	50		8	13	1.2		10		90				C			100
24R	1	3	50		25	25	0.1		100						C			100
24R	1	3	50		23	27	1.5	v	10		90				C	2 mm brown halo		100
24R	1	4	50		29	32	0.1	v	100						C			100
24R	1	4	50		28	33	0.5	v	90		10				C			100
24R	1	5	50		34	34	0.1	v	98			2			C			100
24R	1	5	50		37	39	0.1	v	100						C			100
24R	1	5	50		34	39	0.1	v	98			2			C			100
24R	1	6	50		43	43	0.4		40		60				C			100
24R	1	7	50		53	53	0.1		95			5			C			100
24R	1	7	50		51	54	0.1		95			5			C			100
24R	1	7	50		47	53	0.1	v	95			5			C			100
24R	1	7	50		46	51	0.4		100						C			100
24R	1	7	50		47	54	1.5		80		20				C			100
24R	1	7	50		45	48	4	v					100		C			100
24R	1	8	50		61	62	0.1				100				C			100
24R	1	8	50		57	60	0.1		100						C			100
24R	1	8	50		65	69	0.1		100						C			100
24R	1	8	50		57	65	0.1	v	100						C			100
24R	1	8	50		76	76	0.2		98			2			C			100
24R	1	8	50		67	73	0.2		98			2			C			100
24R	1	8	50		68	77	0.2	v	98			2			C			100
24R	1	8	50		60	66	0.5		10		90				C			100
24R	1	8	50		64	65	0.8		90		8	2			C			100
24R	1	9	50		81	83	0.1		100						C			100
24R	1	9	50		81	89	0.1		100						C			100
24R	1	9	50		85	86	0.2		50		50				C			100
24R	1	9	50		86	87	0.2		40		60				C			100
24R	1	9	50		83	86	0.3	v			100				C			100
24R	1	9	50		78	82	0.5	v	8			90			C			98
24R	1	9	50		78	90	0.5	v	8			90			C			98
24R	1	10	50		91	96	0.2	v	100						C			100
24R	1	10	50		96	96	0.3		100						C			100
24R	1	11	50		113	114	-			10	40		50		B	interpillow	100	100
24R	1	11	50		110	111	-		10		30		60		B	interpillow? Looks dif	100	100
24R	1	11	50		100	103	0.5		40		60				C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
24R	1	11	50		97	109	0.8		40		60				C			100
24R	1	12	50		117	117	0.1		100						C			100
24R	1	12	50		128	129	0.1		100						C			100
24R	1	12	50		125	129	0.1					100			C			100
24R	1	12	50		120	120	0.2				100				C			100
24R	1	12	50		123	123	0.5				100				C			100
24R	1	12	50		117	120	1.2				100				C			100
24R	1	13	50		130	132	0.5		40		60				C	1 mm brown halo		100
24R	2	1	50		5	8	0.2				98	2			C	3 mm dark halo		100
24R	2	1	50		21	24	0.2		100						C			100
24R	2	1	50		18	24	0.2		100						C			100
24R	2	1	50		11	13	0.3		95			5			C	3 mm dark halo		100
24R	2	1	50		22	24	0.5				100				C			100
24R	2	1	50		1	24	0.5	v	35		60	5			C			100
24R	2	2	50		40	41	0.1				100				C			100
24R	2	2	50		43	45	0.1		90			10			C			100
24R	2	2	50		55	57	0.1		100						C			100
24R	2	2	50		38	38	0.2		98			2			C			100
24R	2	2	50		63	65	0.2		95			5			C			100
24R	2	2	50		26	28	0.2	v	100						C			100
24R	2	2	50		36	38	0.2		100						C			100
24R	2	2	50		25	29	0.2	v	100						C			100
24R	2	2	50		77	83	0.2		9		90	1			C			100
24R	2	2	50		44	51	0.2		95			5			C			100
24R	2	2	50		67	77	0.2		9		90	1			C			100
24R	2	2	50		70	81	0.2		9		90	1			C			100
24R	2	2	50		63	82	0.2	v	100						C			100
24R	2	2	50		56	61	0.3		100						C			100
24R	2	2	50		53	56	0.4				100				C			100
24R	2	2	50		27	36	0.4		80		20				C			100
24R	2	2	50		68	68	0.5		10		90				C	3 mm brown halo		100
24R	2	2	50		36	43	0.6	v	10		90				C			100
24R	2	2	50		47	50	1		5		95				C			100
24R	2	3	50		84	89	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	4	50		88	92	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	5	50		93	97	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	6	50		98	102	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	7	50		104	107	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	8	50		108	110	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	9	50		112	115	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	10	50		116	120	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	11	50		121	126	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	12	50		127	130	-		95		5				A	Breccia hyaloclastits	20	100
24R	2	13	50		132	134	1.5	v	100						C			100
24R	2	13	50		132	135	2.5	v	10		90				C			100
24R	2	14	50													Rubble		0
24R	2	15	50		142	143	0.5				100				C			100
24R	3	1	50		2	3	0.1		100						C			100
24R	3	1	50		0	8	0.4	v			100				C			100
24R	3	1	50		0	8	0.6	v				5	95		C			100
24R	3	2	50		29	32	0.3		100						C			100
24R	3	2	50		10	22	0.3		5		90	5			C	5 mm dark halo + py		100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
24R	3	2	50		9	20	0.5	v	90		5	5			C	5 mm dark halo + py		100
24R	3	2	50		25	30	0.8		10		90				C			100
24R	3	2	50		17	24	1.2		20		80				C	5 mm dark halo + py		100
24R	3	3	50		51	53	0.2		95			5			C			100
24R	3	3	50		34	39	0.2		100						C			100
24R	3	3	50		43	49	0.2		95			5			C			100
24R	3	3	50		33	53	0.4	v	90		5	5			C			100
24R	3	4	50		55	56	0.2		100						C			100
24R	3	4	50		55	59	0.2		100						C			100
24R	3	5	50		62	66	-			10	10		80		B	interpillow	100	100
24R	3	6	50		77	78	0.1		100						C	5 mm dark halo + py		100
24R	3	6	50		70	76	0.1		100						C			100
24R	3	6	50		67	68	0.2		100						C			100
24R	3	6	50		78	80	0.2				100				C			100
24R	3	6	50		75	75	0.5		95			5			C			100
24R	3	7	50													No veins		0
24R	3	8	50		85	85	0.2		100						C			100
24R	3	8	50		88	88	0.2		100						C			100
24R	3	8	50		88	89	0.2		100						C			100
24R	3	8	50		88	91	0.2	v	100						C			100
24R	3	8	50		84	91	0.2		100						C			100
24R	3	9	50		92	96	0.2	v	100						C			100
24R	3	9	50		94	97	0.4	v	40		60				C			100
24R	3	11	50		102	104	0.1		100						C			100
24R	3	11	50		106	110	0.1	v	100						C			100
24R	3	11	50		105	107	0.2		95			5			C			100
24R	3	12	50		111	115	0.2	v	100						C			100
24R	3	13	50		119	128	0.3		5		95				C			100
24R	3	14	50		136	136	0.1				100				C	1 mm dark halo		100
24R	3	14	50		129	135	0.2		100						C	1 mm dark halo		100
24R	3	14	50		133	136	0.3		90		10				C	1 mm dark halo		100
25R	1	1	50		8	9	0.2		100						C			100
25R	1	1	50		2	4	0.2		100						C			100
25R	1	1	50		14	16	0.2		100						C			100
25R	1	1	50		1	6	0.2				100				C			100
25R	1	1	50		9	17	0.4	v	10		90				C			100
25R	1	1	50		1	8	0.5	v	80		20				C	1 mm brown halo		100
25R	1	1	50		0	11	0.5		50		50				C			100
25R	1	5	50		43	45	0.2		95			5			C			100
25R	1	5	50		42	45	0.2		95			5			C			100
25R	1	5	50		30	48	0.2		98			2			C			100
25R	1	5	50		31	33	0.3		90		10				C			100
25R	1	5	50		29	30	0.4		10		90				C			100
25R	1	5	50		35	42	0.4		60		40				C			100
25R	1	5	50		39	42	1.2		9		90	1			C			100
25R	1	6	50													rubble		0
25R	1	7	50		56	57	0.1		100						C			100
25R	1	7	50		65	68	0.1	v	100						C			100
25R	1	7	50		58	64	0.1		95			5			C			100
25R	1	7	50		64	66	0.2		40		60				C			100
25R	1	7	50		56	62	0.3	v	95			5			C			100
25R	1	8	50		76	78	0.1		100						C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
25R	1	8	50		80	84	0.1	v	50		50				C			100
25R	1	8	50		70	79	0.1		5		95				C			100
25R	1	8	50		70	72	0.4		5		95				C			100
25R	1	9	50		107	107	0.1		100						C			100
25R	1	9	50		103	104	0.1		100						C			100
25R	1	9	50		104	105	0.1		100						C			100
25R	1	9	50		100	102	0.1		100						C			100
25R	1	9	50		104	107	0.1		100						C			100
25R	1	9	50		87	88	0.3		50		45	5			C			100
25R	1	9	50		86	93	0.4	v	10		90				C			100
25R	1	9	50		93	93	0.5		10		90				C			100
25R	1	9	50		93	95	0.5		10		90				C			100
25R	1	10	50		108	111	0.3	v			100				C			100
25R	1	13	50		121	126	0.2	v	98			2			C			100
25R	1	14	50													rubble		0
25R	1	15	50		135	140	0.2		98			2			C			100
25R	1	15	50		140	146	0.4					100			C			100
25R	1	12-Nov	50													rubble		0
25R	1	4-Feb	50													rubble		0
26R	1	1	50		2	2	0.2		100						C			100
26R	1	1	50		0	1	0.5			90	10				C			100
26R	1	2	50		7	10	-			60	40				A	Breccia interpillow	100	100
26R	1	2	50		10	12	3		90		10				C			100
26R	1	3	50		16	18	-		90		10				B	interpillow	100	100
26R	1	3	50		14	17	0.1		100						C			100
26R	1	3	50		19	21	0.5	v	100						C			100
26R	1	3	50		18	20	1.5	v	100						C			100
26R	1	3	50		18	21	2.5	v	100						C			100
26R	1	4	50		29	32	-		30	15	40		15		A	Breccia interpillow	100	100
26R	1	4	50		26	27	-		40		60				B	interpillow	100	100
26R	1	4	50		32	33	0.1				100				C			100
26R	1	4	50		27	29	0.1		100						C			100
26R	1	4	50		31	33	0.1		100						C			100
26R	1	4	50		33	35	0.1		100						C			100
26R	1	4	50		31	38	0.1		100						C			100
26R	1	4	50		46	48	0.2	v	100						C			100
26R	1	4	50		23	26	0.2	v	100						C			100
26R	1	4	50		39	48	0.2	v	100						C			100
26R	1	4	50		36	39	0.5		10		90				C			100
26R	1	4	50		39	42	0.6				100				C			100
26R	1	5	50													Rubble		0
26R	1	6	50		68	68	0.1		100						C			100
26R	1	6	50		66	69	0.4				100				C			100
26R	1	7	50		72	75	0.2	v	100						C			100
26R	1	7	50		72	75	0.2	v	100						C			100
26R	1	8	50		76	79	0.1	v	100						C			100
26R	1	8	50		77	84	0.1	v	100						C			100
26R	1	8	50		80	80	0.2		98			2			C			100
26R	1	8	50		78	80	0.2		98			2			C			100
26R	1	8	50		89	91	0.2		98			2			C			100
26R	1	8	50		86	89	0.2		98			2			C			100
26R	1	8	50		80	93	0.4	v	95			5			C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
26R	1	9	50		98	99	0.1		100						C			100
26R	1	9	50		100	103	0.1		100						C			100
26R	1	9	50		101	103	0.2		90			10			C			100
26R	1	9	50		102	105	0.2		90			10			C			100
26R	1	9	50		100	104	0.4		10		90				C			100
26R	1	9	50		96	103	0.4	v	10		90				C			100
26R	1	10	50		106	107	0.1		100						C			100
26R	1	10	50		105	108	0.3	v	100						C			100
26R	1	10	50		105	109	0.3	v	100						C			100
26R	1	11	50		118	118	0.4		20		80				C			100
26R	1	11	50		120	123	0.4	v	10		90				C			100
26R	1	11	50		113	120	0.6		20		80				C			100
26R	1	11	50		118	123	1.2		20		80				C			100
26R	1	12	50		125	129	0.2	v	100						C			100
26R	1	12	50		125	126	1.2		5		95				C			100
26R	2	1	50		14	15	0.2		95			5			C			100
26R	2	1	50		22	23	0.2		95			5			C			100
26R	2	1	50		4	6	0.2		95			5			C			100
26R	2	1	50		15	17	0.2		95			5			C			100
26R	2	1	50		20	25	0.2		95			5			C			100
26R	2	1	50		22	27	0.4	v	100						C			100
26R	2	1	50		25	28	0.5	v	95			5			C			100
26R	2	1	50		0	5	0.5		9		90	1			C			100
26R	2	1	50		10	12	1		60		35	5			C			100
26R	2	1	50		3	6	1	v	10		90				C			100
26R	2	1	50		5	8	1.2		10		90				C			100
26R	2	2	50		29	29	0.1		100						C			100
26R	2	2	50		31	31	0.1		100						C			100
26R	2	2	50		32	35	0.1		100						C			100
26R	2	2	50		28	33	0.1	v	100						C			100
26R	2	2	50		28	35	0.1	v	100						C			100
26R	2	2	50		30	33	0.4		80		20				C			100
26R	2	2	50		32	38	0.4	v	100						C			100
26R	2	3	50		40	40	0.2		95			5			C			100
26R	2	3	50		39	43	0.2	v	95			5			C			100
26R	2	4	50		54	54	0.1		100						C			100
26R	2	4	50		49	51	0.1		100						C			100
26R	2	4	50		53	56	0.5		90		9	1			C			100
26R	2	4	50		48	50	4		100						C			100
26R	2	5	50													rubble		0
26R	2	6	50													no veins		0
26R	2	7	50		73	80	0.1		100						C			100
26R	2	7	50		74	81	0.1	v	100						C			100
26R	2	7	50		72	74	0.4		10		90				C			100
26R	2	7	50		78	78	0.6		15	80	5				C			100
26R	2	7	50		77	82	1		60		40				C			100
26R	2	8	50													rubble		0
26R	2	9	50		101	108	0.1	v	100						C			100
26R	2	9	50		97	110	0.1	v	100						C			100
26R	2	9	50		103	104	0.2		70		30				C			100
26R	2	9	50		107	109	0.3		25		70	5			C			100
26R	2	10	50													no vein		0

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
26R	2	11	50													rubble		0
27R	1	1	50													no vein		0
27R	1	2	50													no vein		0
27R	1	3	50		15	28	0.1	v	100						C			100
27R	1	3	50		13	17	0.4		50		50				C			100
27R	1	3	50		27	31	0.6		70		20	10			C			100
27R	1	3	50		26	31	0.8		10		90				C			100
27R	1	3	50		37	40	1.5		10		90				C			100
27R	1	3	50		41	48	2		30		70				C			100
27R	1	4	50		53	54	-		20		80				B	interpillow sed	100	100
27R	1	4	50		50	53	-		2		30		68		B	interpillow	100	100
27R	1	4	50		87	88	0.2		95			5			C			100
27R	1	4	50		76	78	0.2		35		60	5			C			100
27R	1	4	50		83	86	0.2		95			5			C			100
27R	1	4	50		92	95	0.2		95			5			C			100
27R	1	4	50		66	69	0.2		100						C			100
27R	1	4	50		54	60	0.2	v	100						C			100
27R	1	4	50		60	62	0.3		98			2			C			100
27R	1	4	50		67	95	1		40		60				C			100
27R	1	4	50		74	74	1.2		10		90				C			100
27R	1	4	50		98	101	1.2		90		10				C			100
27R	1	4	50		54	61	2.5		100						C			100
27R	1	5	50		107	108	0.1					100			C			100
27R	1	5	50		104	112	0.4	v	98			2			C			100
27R	1	5	50		112	113	8		18		80	2			C	vesical/vein?		100
27R	1	6	50													no veins		0
27R	1	7	50		126	127	-		5		80		15		B	interpillow material	80	100
27R	1	7	50		122	125	0.1	v	95			5			C			100
27R	1	7	50		125	126	4		5		80		15		C	late vein fill in interpillow position		100
27R	1	7	50		121	122	7		5		95				C			100
27R	2	1	50		4	9	0.2		98			2			C			100
27R	2	1	50		0	9	0.2	v	98			2			C			100
27R	2	1	50		16	16	0.3		98			2			C			100
27R	2	1	50		12	16	0.3		100						C			100
27R	2	1	50		13	26	0.5	v	8		90	2			C			100
27R	2	1	50		7	10	0.6		50		50				C			100
27R	2	2	50		26	26	0.2		98			2			C			100
27R	2	2	50		27	28	0.2		98			2			C			100
27R	2	2	50		108	109	0.2		98			2			C			100
27R	2	2	50		121	122	0.2		98			2			C			100
27R	2	2	50		75	78	0.2				100				C			100
27R	2	2	50		84	96	0.2	v			98	2			C			100
27R	2	2	50		44	46	0.3		98			2			C			100
27R	2	2	50		33	37	0.3		98			2			C			100
27R	2	2	50		95	96	0.4		10		90				C			100
27R	2	2	50		118	121	0.4		8		90	2			C			100
27R	2	2	50		77	90	0.4		10		90				C			100
27R	2	2	50		121	125	0.6	v	8		90	2			C			100
27R	2	2	50		59	90	1	v	8		90	2			C			100
27R	2	3	50		126	128	0.1		100						C			100
27R	2	3	50		128	130	0.1		98		2				C			100
27R	2	3	50		126	129	0.2	v	5		95				C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti- cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
27R	2	4	50		130	134	0.2	v				100			C			100
27R	2	4	50		130	134	0.2	v	5		95				C			100
27R	2	5	50		135	136	0.5				100				C			100
27R	2	5	50		134	137	0.8	v	10		90				C			100
27R	2	6	50		144	147	0.2	v	100						C			100
27R	2	6	50		139	144	0.2				100				C			100
27R	2	6	50		139	142	0.6	v	5		95				C			100
27R	2	6	50		140	147	1.2				100				C			100
27R	2	6	50		139	147	1.5	v	5		95				C			100
27R	3	1	50		0	2	-				100				A	Breccia, hyaloclatite	40	100
27R	3	1	50		2	4	1	v	10		90				C			100
27R	3	1	50		2	4	1	v	10		90				C			100
27R	3	1	50		2	4	1	v	10		90				C			100
27R	3	2	50		5	9	-		20		80				A	Breccia interpillow	100	100
27R	3	2	50		8	10	-		6				90	4	B	interpillow sed	100	100
27R	3	3	50		11	14	-		20		80				A	Breccia interpillow	20	100
27R	3	3	50		11	15	0.6	v	80		20				C			100
27R	3	3	50		12	15	0.8		20		80				C			100
27R	3	3	50		13	15	1		80		20				C			100
27R	3	4	50		16	19	-		20		80				A	Breccia interpillow	100	100
27R	3	5	50		31	33	0.4	v			100				C			100
27R	3	5	50		23	26	0.4		10		90				C			100
27R	3	5	50		28	33	0.4	v			100				C			100
27R	3	5	50		31	33	0.5				100				C			100
27R	3	5	50		20	24	0.5	v	95	5					C			100
27R	3	5	50		24	29	0.5		20		80				C			100
27R	3	5	50		28	29	1.2		5		95				C			100
27R	3	5	50		23	25	1.5		20		80				C			100
27R	3	6	50		62	63	0.1		10				90		C			100
27R	3	6	50		67	68	0.1		95			5			C			100
27R	3	6	50		44	46	0.1				100				C			100
27R	3	6	50		62	67	0.1	v	95			5			C			100
27R	3	6	50		50	53	0.2				100				C			100
27R	3	6	50		53	59	0.2				100				C			100
27R	3	6	50		50	57	0.2	v	10		90				C			100
27R	3	6	50		39	40	0.3		10		90				C			100
27R	3	6	50		41	43	0.3		10		90				C			100
27R	3	6	50		43	45	0.3		10		90				C			100
27R	3	6	50		38	41	0.3		10		90				C			100
27R	3	6	50		36	40	0.3		10		90				C			100
27R	3	6	50		61	70	0.3	v					100		C			100
27R	3	6	50		52	53	0.4				100				C			100
27R	3	6	50		57	60	0.4				100				C			100
27R	3	6	50		60	60	0.5		10		90				C			100
27R	3	6	50		47	50	0.8				100				C			100
27R	3	6	50		46	64	0.8		5		95				C			100
27R	3	6	50		37	38	1.5		20		80				C			100
27R	3	6	50		41	49	1.5		8		90			2	C			100
27R	3	6	50		35	47	1.5		15		80	5			C			100
27R	3	6	50		38	44	2		10		90				C			100
27R	3	6	50		56	68	2.5				90		10		C			100
27R	3	7	50													rubble		0

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
27R	3	8	50		76	76	0.2		100						C			100
27R	3	8	50		78	80	0.2				100				C			100
27R	3	9	50		94	95	0.1				100				C			100
27R	3	9	50		82	85	0.1	v	100						C			100
27R	3	9	50		112	119	0.1		100						C			100
27R	3	9	50		86	88	0.2		10		90				C			100
27R	3	9	50		86	88	0.2		10		90				C			100
27R	3	9	50		124	127	0.2				100				C			100
27R	3	9	50		127	130	0.2				100				C			100
27R	3	9	50		87	93	0.2	v	10		90				C			100
27R	3	9	50		106	108	0.4		10		90				C			100
27R	3	9	50		104	104	0.5				100				C			100
27R	3	9	50		98	123	0.6	v			100				C			100
27R	3	9	50		94	98	0.8	v			100				C			100
27R	3	9	50		117	122	0.8				100				C			100
27R	3	9	50		84	88	1		10		90				C			100
27R	3	9	50		88	98	1		10		90				C			100
27R	4	1	50		135	138	0.1				100				C			100
27R	4	1	50		117	120	0.1		100						C			100
27R	4	1	50		80	84	0.1				100				C			100
27R	4	1	50		4	9	0.1				100				C			100
27R	4	1	50		44	49	0.1				100				C			100
27R	4	1	50		11	17	0.1		50		50				C			100
27R	4	1	50		125	131	0.1				100				C			100
27R	4	1	50		131	138	0.1	v			100				C			100
27R	4	1	50		19	27	0.1		100						C			100
27R	4	1	50		44	52	0.1				100				C			100
27R	4	1	50		122	127	0.2	v			100				C			100
27R	4	1	50		131	139	0.2		98			2			C			100
27R	4	1	50		68	89	0.2	v	98			2			C			100
27R	4	1	50		110	110	0.3		9		90	1			C			100
27R	4	1	50		121	122	0.3		60		40				C			100
27R	4	1	50		9	11	0.3		10		90				C			100
27R	4	1	50		18	19	0.4				100				C			100
27R	4	1	50		86	88	0.4				100				C			100
27R	4	1	50		124	126	0.4				100				C			100
27R	4	1	50		122	125	0.4	v	60		40				C			100
27R	4	1	50		79	83	0.4		5		95				C			100
27R	4	1	50		88	93	0.5		10		90				C			100
27R	4	1	50		52	60	0.5				100				C			100
27R	4	1	50		54	70	0.5		98			2			C			100
27R	4	1	50		115	115	0.6		50		50				C			100
27R	4	1	50		30	33	0.8				100				C			100
27R	4	1	50		104	112	0.8		5		95				C			100
27R	4	1	50		113	118	1		80		18	2			C			100
27R	4	1	50		90	113	1		10		90				C			100
27R	4	1	50		51	55	1.2				100				C			100
27R	4	1	50		66	73	1.5		5		95				C			100
27R	4	1	50		82	88	1.8		5		95				C			100
27R	4	1	50		2	28	2	v	5		95				C			100
27R	5	1	50		3	5	0.1		100						C			100
27R	5	1	50		6	8	0.1		100						C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
27R	5	1	50		12	15	0.1		50		50				C			100
27R	5	1	50		1	11	0.1				100				C			100
27R	5	1	50		1	15	0.1	v	100						C			100
27R	5	2	50		16	18	0.2	v	10		90				C			100
27R	5	3	50													rubble		0
27R	5	4	50		30	31	-		30		60		10		B	interpillow	100	100
27R	5	4	50		32	34	2	v	10		90				C			100
27R	5	5	50		41	48	0.2		90			10			C			100
27R	5	5	50		39	48	0.2		95			5			C			100
27R	5	6	50		49	55	0.6		95			5			C			100
27R	5	7	50		58	64	0.1					100			C			100
27R	5	8	50													no veins		0
28R	1	1	50		74	74	0.1		90		10				C			100
28R	1	1	50		64	65	0.1		60		38	2			C			100
28R	1	1	50		56	57	0.1		10		90				C			100
28R	1	1	50		66	72	0.1		70		30				C			100
28R	1	1	50		81	81	0.2		30		70				C			100
28R	1	1	50		79	81	0.2		30		70				C			100
28R	1	1	50		32	35	0.2	v	70		30				C			100
28R	1	1	50		7	13	0.2	v			100				C			100
28R	1	1	50		1	13	0.2				100				C			100
28R	1	1	50		29	32	0.3	v	5		95				C			100
28R	1	1	50		36	56	0.3		30		70				C			100
28R	1	1	50		1	25	0.4				100				C			100
28R	1	1	50		24	33	0.5	v			100				C			100
28R	1	1	50		28	29	1		5		95				C			100
28R	1	1	50		2	15	1.2				100				C			100
28R	1	1	50		3	29	1.3				100				C			100
28R	1	1	50		87	87	4		85		15				C			100
28R	1	2	50		89	100	0.2	v	60		35	5			C			100
28R	1	3	50													no vein		0
28R	1	4	50		100	100	0.2		85		15				C			100
28R	1	5	50													rubble, alt. Glass, pillow margin/breccia?		0
28R	1	6	50		114	116	0.1	v	100						C			100
28R	1	6	50		114	118	1	v	2		98				C			100
28R	1	7	50		121	122	0.2		90	9				1	C			100
28R	1	7	50		119	121	0.2		95		5				C			100
28R	1	7	50		129	133	0.2	v	17		80	3			C			100
28R	1	7	50		129	129	0.3		5		95				C			100
28R	1	7	50		126	129	0.3		17		80	3			C			100
28R	1	7	50		130	132	0.4		30		70				C			100
28R	1	7	50		122	131	0.4		40		60				C			100
28R	1	7	50		120	122	0.7	v	20		80				C			100
28R	1	7	50		121	124	0.8		60		40				C			100
28R	1	7	50		125	136	1.2		65		30	5			C			100
28R	2	1	50		64	66	-		5		95				A	Breccia, hyaloclastite	25	100
28R	2	1	50		64	66	-		5		95				A	breccia/hyaloclastic	25	100
28R	2	1	50		14	14	0.1		50		50				C			100
28R	2	1	50		37	37	0.1		50		50				C			100
28R	2	1	50		61	63	0.1	v			20	80			C			100
28R	2	1	50		16	18	0.1		20		80				C	1 mm halo		100
28R	2	1	50		13	15	0.1	v			100				C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
28R	2	1	50		19	21	0.1	v			100				C			100
28R	2	1	50		24	27	0.1		10		90				C			100
28R	2	1	50		61	65	0.1	v	45		45	10			C	1 mm halo		100
28R	2	1	50		56	61	0.1	v	25		25	50			C			100
28R	2	1	50		18	23	0.1	v	100						C			100
28R	2	1	50		14	20	0.1	v	100						C			100
28R	2	1	50		57	64	0.1	v	5		92	3			C			100
28R	2	1	50		55	62	0.1		15		70	15			C			100
28R	2	1	50		44	56	0.2		25		70	5			C	pyrite blob (5 mm)		100
28R	2	1	50		14	14	0.3		2		96	2			C			100
28R	2	1	50		43	45	0.3		15		80	5			C	1.5 mm halo		100
28R	2	1	50		1	4	0.3		5		90	5			C			100
28R	2	1	50		27	32	0.4		8		90	2			C			100
28R	2	1	50		1	5	0.6		10		85	5			C			100
28R	2	1	50		14	15	0.7		3		95	2			C			100
28R	2	1	50		10	14	1	v	2		96	2			C			100
28R	2	1	50		7	18	1.5		7		90	3			C			100
28R	2	1	50		15	42	3	v	13		85	2			C			100
28R	2	1	50		5	16	4		10		85	5			C			100
28R	2	2	50		66	76	-		2		98				A	hyaloclastic	15	100
28R	2	3	50		77	79	-		10		90				A	Breccia interpillow	80	100
28R	2	3	50		77	81	0.6	v	60		40				C			100
28R	2	4	50		82	86	-		10		90				A	hyaloclastic	15	100
28R	2	5	50		91	91	0.1		5		95				C	surrounded by vesicles		100
28R	2	5	50		87	90	0.1	v	40		60				C			100
28R	2	5	50		86	93	1.5	v	5		95				C			100
28R	2	6	50		95	96	-		10		90				A	hyaloclastic	10	100
28R	2	6	50		98	102	-		40		60				A	hyaloclastic	40	100
28R	2	6	50		104	104	0.1				100				C			100
28R	2	6	50		96	97	0.1		100						C			100
28R	2	6	50		104	106	0.1	v			100				C			100
28R	2	6	50		104	106	0.1		10		90				C			100
28R	2	6	50		95	98	0.1	v			100				C			100
28R	2	6	50		101	104	0.1	v	10		90				C			100
28R	2	6	50		102	105	0.1	v			100				C			100
28R	2	6	50		103	106	0.1	v	40		60				C			100
28R	2	6	50		102	106	1.5	v	10		90				C			100
28R	2	6	50		95	97	3	v	5		95				C			100
28R	2	7	50		107	110	-		20		80				A	hyaloclastite	30	100
28R	2	7	50		113	115	0.1	v	50		50				C			100
28R	2	7	50		114	116	0.1	v	90		10				C			100
28R	2	7	50		112	116	0.2	v	10		90				C			100
28R	2	7	50		109	112	0.3	v			100				C			100
28R	2	8	50		124	133	-		10		90				A	breccia vein	6	100
28R	2	8	50		118	120	-		40		60				A	hyaloclatite, clasts of fresh glass	15	100
28R	2	8	50		123	125	0.1		5		95				C			100
28R	2	8	50		131	133	0.1	v	100						C			100
28R	2	8	50		121	124	0.1		100						C			100
28R	2	8	50		129	131	0.2		3		95	2			C			100
28R	2	8	50		125	127	0.2	v			100				C			100
28R	2	8	50		131	133	0.2	v	10		90				C			100
28R	2	8	50		124	127	0.2	v			100				C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
28R	2	8	50		122	126	0.2		5		95				C			100
28R	2	8	50		132	133	0.7		40		60				C			100
28R	2	8	50		131	133	1	v	10		90				C			100
28R	2	8	50		120	124	1				100				C	vein net (~ 20 parallel veins)		100
28R	2	8	50		127	131	2		5		95				C			100
28R	2	9	50		147	149	-				100				A	breccia	5	100
28R	2	9	50		138	138	0.1		50		50				C			100
28R	2	9	50		141	142	0.1	v	50		50				C			100
28R	2	9	50		142	143	0.1	v			100				C			100
28R	2	9	50		134	136	0.1	v			100				C			100
28R	2	9	50		135	137	0.1	v	5		95				C			100
28R	2	9	50		136	138	0.1	v			100				C			100
28R	2	9	50		138	140	0.1				100				C			100
28R	2	9	50		140	142	0.1	v			100				C			100
28R	2	9	50		140	142	0.1				100				C			100
28R	2	9	50		141	143	0.1		10		90				C			100
28R	2	9	50		134	137	0.1		100						C			100
28R	2	9	50		137	140	0.1	v			100				C			100
28R	2	9	50		141	144	0.1		40		60				C			100
28R	2	9	50		134	138	0.1	v	90		10				C			100
28R	2	9	50		132	138	0.1		20		80				C			100
28R	2	9	50		139	145	0.1				100				C			100
28R	2	9	50		140	146	0.1	v			100				C			100
28R	2	9	50		144	145	0.2				100				C			100
28R	2	9	50		145	146	0.2		10		90				C			100
28R	2	9	50		134	136	0.2	v	40		60				C			100
28R	2	9	50		134	136	0.2	v	20		80				C			100
28R	2	9	50		136	138	0.3	v			100				C			100
28R	2	9	50		135	137	0.5		40		60				C			100
28R	2	9	50		135	137	0.6	v	25		70			5	C			100
28R	2	9	50		138	145	0.6		5		95				C			100
28R	2	9	50		138	140	0.8		20		80				C			100
28R	2	9	50		136	138	1	v			100				C			100
28R	2	9	50		134	138	2	v	40		60				C			100
28R	2	9	50		144	148	2	v	50		50				C			100
28R	3	1	50		17	25	0.1		100						C			100
28R	3	1	50		13	18	0.1		100						C			100
28R	3	1	50		27	36	0.1		100						C			100
28R	3	1	50		0	5	0.4				100				C			100
28R	3	1	50		14	28	0.4				100				C			100
28R	3	1	50		31	37	0.5	v	10		90				C			100
28R	3	1	50		8	11	0.6		5		95				C			100
28R	3	1	50		21	24	0.8		10		90				C			100
28R	3	1	50		24	30	2		10		90				C			100
28R	3	1	50		2	15	2		5		95				C			100
28R	3	6	50		67	71	0.1	v	100						C			100
28R	3	7	50		77	82	0.2		10		90				C			100
28R	3	7	50		76	76	0.4				100				C			100
28R	3	7	50		81	81	0.4				100				C			100
28R	3	7	50		71	75	0.4		100						C			100
28R	3	7	50		82	84	0.5		5		95				C			100
28R	3	7	50		84	85	1.5	v			100				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
28R	3	7	50		71	76	2	v	90		10				C			100
28R	3	8	50													bio-sample		0
28R	3	9	50													rubble		0
28R	3	10	51		94	95	0.1	v	100						C			100
28R	3	11	51		100	101	0.1		100						C			100
28R	3	11	51		104	106	0.1		100						C			100
28R	3	11	51		99	103	0.1		100						C			100
28R	3	11	51		99	111	0.1	v	100						C			100
28R	3	12	51													veinless		0
28R	3	13	51													veinless		0
28R	3	14	51		125	125	0.3		8		90	2			C			100
28R	3	15	51		133	137	0.1		95			5			C			100
28R	3	16	51													no veins		0
28R	3	5-Feb	50		39	65	-		85		15				A	hyaloclastite breccia	30	100
29R	1	1	51		10	10	0.1		98		2				C			100
29R	1	1	51		2	5	0.1	v	95			5			C			100
29R	1	1	51		1	6	0.1		100						C			100
29R	1	1	51		7	14	0.1		95		4	1			C			100
29R	1	2	51													rubble		0
29R	1	3	51													no viens		0
29R	1	4	51		48	49	0.2		90		2	8			C			100
29R	1	4	51		53	56	0.2	v	100						C			100
29R	1	4	51		46	57	1.8	v	10		90				C			100
29R	1	5	51		61	62	0.3				100				C			100
29R	1	5	51		61	61	1		10		90				C			100
29R	1	5	51		62	68	1.2		5		95				C			100
29R	1	6	51		65	69	2.2		5		95				C			100
29R	1	7	51													rubble		0
29R	1	8	51													none		0
29R	1	9	51		98	100	0.1	v	90		10				C			100
29R	1	9	51		99	102	0.1		90		10				C			100
29R	1	9	51		99	103	0.2		95		5				C			100
29R	1	10	51		110	114	0.2		95		5				C			100
29R	1	10	51		110	111	0.3		90		8	2			C			100
29R	1	10	51		112	119	1	v	50		50				C			100
29R	1	11	51		123	125	0.1					100			C			100
29R	1	11	51		128	128	0.2		93		5	2			C			100
29R	1	12	51													no veins		0
29R	1	13	51		137	139	2		5		95				C			100
29R	1	13	51		136	140	4				100				C			100
29R	1	14	51		141	144	0.2	v			100				C			100
29R	2	1	51		5	5	3				100				C	rubble		100
29R	2	1	51		9	14	5	v			100				C	rubble		100
29R	2	2	51		24	27	0.2		95		5				C			100
29R	2	2	51		19	25	1	v	9		90	1			C			100
29R	2	2	51		19	25	1.2	v	70		25	5			C			100
29R	2	3	51													none		0
29R	2	4	51													rubble		0
29R	2	5	51		52	54	0.2		100						C			100
30R	1	1	51		5	6	0.1	v	100						C			100
30R	1	1	51		4	6	0.1	v	95		5				C			100
30R	1	1	51		40	43	0.1		100						C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
30R	1	1	51		44	45	0.2		95		5				C			100
30R	1	1	51		2	5	0.2		60		40				C			100
30R	1	1	51		67	74	0.2		90		5	5			C			100
30R	1	1	51		29	38	0.2		80		15	5			C			100
30R	1	1	51		56	67	0.2		90		5	5			C			100
30R	1	1	51		19	94	0.2	v	30		70				C			100
30R	1	1	51		54	54	0.4		85		10	5			C			100
30R	1	1	51		17	19	1		15		85				C			100
30R	1	1	51		38	44	1		75		20	5			C			100
30R	1	1	51		45	69	1		80		20				C			100
30R	1	1	51		4	9	1.1		95		5				C			100
30R	1	1	51		37	43	1.2		75		25				C			100
30R	1	2	51		86	86	0.1		85		8	7			C			100
30R	1	2	51		137	140	0.1		70		25	5			C			100
30R	1	2	51		110	115	0.1	v	100						C			100
30R	1	2	51		99	109	0.1		100						C			100
30R	1	2	51		86	86	0.2		95		4	1			C			100
30R	1	2	51		108	108	0.2		50		48	2			C			100
30R	1	2	51		133	137	0.2		70		28	2			C			100
30R	1	2	51		106	107	0.8		2		98				C			100
30R	1	2	51		109	111	0.8		92		2	6			C			100
30R	1	2	51		97	109	1		10		90				C			100
30R	2	1	51		25	27	0.1		85		10	5			C			100
30R	2	1	51		12	15	0.1		95			5			C			100
30R	2	1	51		6	12	0.1		50		50				C			100
30R	2	1	51		61	67	0.1		100						C			100
30R	2	1	51		4	12	0.1		95			5			C			100
30R	2	1	51		22	40	0.1		95			5			C			100
30R	2	1	51		18	24	0.2		98			2			C			100
30R	2	1	51		38	45	0.2		50		45	5			C			100
30R	2	1	51		12	19	0.2	v	60		40				C			100
30R	2	1	51		51	68	0.2	v	25		70	5			C			100
30R	2	1	51		3	3	0.3		98		2				C			100
30R	2	1	51		2	5	0.5		80		20				C			100
30R	2	1	51		22	25	1.5		15		85				C			100
30R	2	1	51		47	52	4		15		85				C			100
30R	2	2	51		73	77	0.1		95			5			C			100
30R	2	3	51		108	108	0.1		95		5				C			100
30R	2	3	51		103	114	0.2		60		38	2			C			100
30R	2	3	51		78	95	0.2		80		20				C			100
30R	2	3	51		135	139	0.3		28		70	2			C			100
30R	2	3	51		125	141	1	v	4		96				C			100
30R	2	3	51		123	126	1.2		2		98				C			100
30R	2	3	51		90	94	1.8		2		98				C			100
30R	3	1	51		27	27	0.2		5		95				C			100
30R	3	1	51		20	21	0.3		18		80	2			C			100
30R	3	1	51		24	27	0.3	v	5		95				C			100
30R	3	1	51		4	8	0.4	v	10		90				C			100
30R	3	1	51		24	24	0.6		30		60	10			C			100
30R	3	1	51		14	18	0.7		2		98				C			100
30R	3	1	51		1	32	0.8		10		90				C			100
30R	3	1	51		9	10	1	v	10		90				C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
30R	3	2	51		41	46	0.1		35		60	5			C			100
30R	3	2	51		40	49	0.1	v	85		10	5			C			100
30R	3	2	51		39	40	0.8		15		80	5			C			100
30R	3	3	51		53	57	1		2		98				C			100
30R	3	4	51		63	65	0.1		80		20				C			100
30R	3	4	51		80	87	0.8		10		90				C			100
30R	3	4	51		59	63	1.2	v	2		98				C			100
30R	3	5	51		99	101	0.1		100						C			100
30R	3	5	51		87	101	0.6	v	85		15				C			100
30R	3	5	51		95	98	0.7		80		20				C			100
30R	3	5	51		90	94	0.9	v	20		80				C			100
30R	3	5	51		97	98	2	v	5		95				C			100
30R	3	5	51		101	102	4		60		40				C			100
30R	3	6	51		115	115	0.1		80		17	3			C			100
30R	3	6	51		104	107	0.1		10		90				C			100
30R	3	6	51		120	124	0.1					100			C			100
30R	3	6	51		116	120	0.1		100						C			100
30R	3	6	51		129	129	0.2		20		80				C			100
30R	3	6	51		129	130	0.2		95		5				C			100
30R	3	6	51		124	131	0.3		95		5				C			100
30R	4	1	51		1	6	0.1		10		90				C			100
30R	4	1	51		6	13	0.1		10		90				C			100
30R	4	1	51		8	10	0.2		90		8	2			C			100
30R	4	1	51		18	22	0.2		100						C			100
30R	4	1	51		38	42	0.2		100						C			100
30R	4	2	51		45	48	0.1		100						C			100
30R	4	2	51		48	52	0.1		95		5				C			100
30R	4	2	51		51	55	0.7		10		90				C			100
30R	4	3	51		63	66	0.2		95			5			C			100
30R	4	3	51		56	67	0.4		60		39	1			C			100
30R	4	4	51		73	78	0.8	v	20		80				C			100
30R	5	1	51		0	5	0.5		8		90	2			C			100
30R	5	1	51		14	18	1		10		90				C			100
30R	5	2	51		71	79	4	v	75		25				C			100
30R	5	3	51		87	88	0.2		90		10				C			100
30R	5	3	51		87	95	0.3	v	100						C			100
30R	5	3	51		84	86	0.3		100						C			100
30R	5	3	51		87	89	0.4		100						C			100
30R	5	3	51		85	87	0.6		40		60				C			100
30R	5	3	51		83	86	1.5		40		60				C			100
30R	5	3	51		85	88	1.5		40		60				C			100
30R	5	3	51		86	95	1.5	v	60		40				C			100
30R	5	3	51		91	95	9	v	100						C			100
30R	5	4	51		98	98	0.2		95			5			C			100
30R	5	5	51		110	110	0.1		100						C			100
30R	5	5	51		118	124	0.2	v	100						C			100
30R	5	6	51		136	141	0.2	v		98				2	C			100
30R	5	6	51		138	149	0.2			98				2	C			100
30R	5	6	51		140	140	0.3		100						C			100
30R	5	6	51		147	148	0.5		5		95				C			100
30R	5	6	51		131	135	0.5	v	60		40				C			100
30R	5	6	51		137	143	3	v	60		40				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
30R	5	6	51		126	127	8		90	8				2	C			100
30R	5	6	51		127	135	10		60	38				2	C			100
30R	6	1	51		4	6	0.5		5		95				C			100
30R	6	4	51		20	25	0.2		100						C			100
30R	6	4	51		20	26	2		95					5	C			100
30R	6	5	51		28	33	0.5	v	8		90			2	C			100
30R	6	6	51		40	45	0.1	v	100						C			100
30R	6	6	51		39	39	3				100				C			100
30R	6	3-Feb	51													no veins		0
31R	1	1	51													Rubble		0
31R	1	2	51		6	6	0.5		90	8				2	C			100
31R	1	2	51		8	9	0.5		90	10					C			100
31R	1	3	51		15	16	3		60		35			5	C			100
31R	1	4	51													Rubble		
31R	1	5	51		21	27	0.4	v	100						C			
31R	1	6	51		30	30	0.5		100						C	slicken-side		
31R	1	7	51		42	46	0.2		100						C			
31R	1	7	51		47	54	0.2		100						C			
31R	1	7	51		45	48	0.4	v	95					5	C			
31R	1	7	51		31	42	6		95		5				C	slicken-side		
31R	1	7	51		34	37	20		95		4			1	C			
31R	1	8	51		52	55	0.2	v	100						C			
31R	1	9	51		65	71	0.1		100						C			
31R	1	9	51		70	73	0.2		90			10			C			
31R	1	9	51		56	62	0.2		98			2			C			
31R	1	10	51		98	99	0.1		100						C			
31R	1	10	51		111	116	0.3		80		19	1			C			100
31R	1	10	51		119	128	0.3	v	10		90				C			
31R	1	10	51		127	129	0.4		98			2			C			
31R	1	10	51		84	88	0.4		98					2	C	1mm brown halo		
31R	1	10	51		86	93	0.4		90		9			1	C	1mm brown halo		
31R	1	10	51		110	120	0.4		40		60				C			
31R	1	10	51		99	102	0.5		20		80				C			
31R	1	10	51		104	108	0.5		60		40				C			
31R	1	10	51		105	111	0.8		40		60				C			
31R	1	10	51		95	107	0.8	v	9		90			1	C			
31R	1	10	51		85	90	1		38		60			2	C	1mm brown halo		
31R	1	10	51		90	95	1		10		90				C			
31R	2	1	51		54	54	0.1		95		2	3			C			100
31R	2	1	51		26	29	0.1		90		2	8			C			100
31R	2	1	51		50	54	0.1		95		2	3			C			100
31R	2	1	51		38	53	0.1		95		2	3			C			100
31R	2	1	51		32	40	0.2		60		35	5			C			100
31R	2	1	51		15	24	0.2		90		2	8			C			100
31R	2	1	51		1	1	0.3		5		95				C			100
31R	2	1	51		29	33	0.3		15		85				C	acicular crystals		100
31R	2	1	51		10	12	1		5		95				C			100
31R	2	1	51		57	64	1.3		2		98				C			100
31R	2	2	51		86	86	0.1		10		90				C			100
31R	2	2	51		69	72	0.1		95		5				C			100
31R	2	2	51		80	84	0.1		10		90				C			100
31R	2	2	51		83	95	0.1		10		90				C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti- cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
31R	2	2	51		90	93	0.2		95		3	2			C			100
31R	2	2	51		104	104	1		20		80				C			100
31R	2	2	51		102	103	1.6		10		60	30			C			100
31R	2	3	51		115	116	0.2		92		7	1			C			100
31R	2	3	51		109	109	0.8		10		90				C			100
31R	2	3	51		121	126	1		5		95				C			100
31R	2	3	51		105	115	1.2	v	10		90				C			100
31R	2	3	51		105	108	2.1		10		90				C			100
31R	3	1	51		5	8	0.1		95		5				C			100
31R	3	1	51		1	5	0.1		100						C			100
31R	3	1	51		6	17	0.2		80		20				C			100
31R	3	1	51		25	30	0.5		92		8				C			100
31R	3	1	51		25	25	0.6		40		60				C			100
31R	3	1	51		18	27	0.7		5		95				C			100
31R	3	2	51		56	58	0.1		90		3	7			C			100
31R	3	2	51		59	62	0.1		98		2				C			100
31R	3	2	51		40	40	0.5		85		15				C			100
31R	3	3	51		63	65	0.2		98		2				C			100
31R	3	4	51		68	68	0.1		92			8			C			100
31R	3	5	51		79	79	0.1		90		10				C			100
31R	3	5	51		72	79	0.4		85		15				C			100
31R	3	6	51		84	86	0.2		100						C			100
31R	3	6	51		95	102	0.3		95			5			C			100
31R	3	7	51		106	106	0.1		30		70				C			100
31R	3	7	51		116	118	0.1		90		10				C			100
31R	3	7	51		136	139	0.1		98			2			C			100
31R	3	7	51		112	112	0.2		90		10				C			100
31R	3	7	51		107	108	0.2		70		30				C			100
31R	3	7	51		108	109	0.2		100						C			100
31R	3	7	51		114	115	0.2		90		10				C			100
31R	3	7	51		120	120	0.3		98		2				C			100
31R	3	7	51		137	140	0.4	v	25		70	5			C			100
31R	3	7	51		122	126	0.5	v	95		5				C			100
31R	3	7	51		122	122	0.8		95		5				C			100
31R	3	7	51		127	128	0.8		40		60				C			100
31R	3	7	51		118	128	1		80		20				C			100
31R	4	1	51		14	19	0.1		30		70				C			100
31R	4	1	51		1	3	0.2		70		20	10			C			100
31R	4	1	51		32	35	0.2		90			10			C			100
31R	4	1	51		1	2	0.4		20		80				C			100
31R	4	1	51		27	32	2.5		10		85	5			C			100
31R	4	2	51		56	56	0.1		70			30			C	Pretty		100
31R	4	2	51		101	102	0.1		95			5			C			100
31R	4	2	51		84	98	0.1	v	95			5			C			100
31R	4	2	51		97	100	0.2		95			5			C			100
31R	4	2	51		83	84	0.3		75		25				C			100
31R	4	2	51		74	79	0.6		15		80	5			C			100
31R	4	2	51		69	72	0.8		30		50	20			C			100
31R	4	2	51		71	84	1		15		80	5			C			100
31R	4	3	51		105	106	0.1		95			5			C			100
31R	4	3	51		143	145	0.1		92		3	5			C			100
31R	4	3	51		111	114	0.1		95		3	2			C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
31R	4	3	51		119	122	0.1		95		3	2			C			100
31R	4	3	51		134	139	0.1	v	95		4	1			C			100
31R	4	3	51		128	130	0.2		90		9	1			C			100
31R	4	3	51		134	136	0.2		90		9	1			C			100
31R	4	3	51		125	128	0.2		90		9	1			C			100
31R	4	3	51		104	111	1.1	v	15		85				C			100
31R	5	1	51		2	2	0.1		95		2	3			C			100
31R	5	1	51		25	26	0.1		90			10			C			100
31R	5	1	51		12	14	0.1		40		60				C			100
31R	5	1	51		14	16	0.1		40		60				C			100
31R	5	1	51		11	11	0.2		92		7	1			C			100
31R	5	1	51		11	28	0.7		5		95				C			100
31R	5	2	51		96	97	0.1		98			2			C			100
31R	5	2	51		45	46	0.1		100						C			100
31R	5	2	51		77	78	0.1		100						C			100
31R	5	2	51		47	59	0.1	v	80		20				C			100
31R	5	2	51		96	115	0.1		30		60	10			C			100
31R	5	2	51		116	116	0.2				100				C			100
31R	5	2	51		118	119	0.2		20		80				C			100
31R	5	2	51		117	119	0.2		40		60				C			100
31R	5	2	51		41	46	0.2	v	100						C			100
31R	5	2	51		53	58	0.2				100				C			100
31R	5	2	51		125	125	0.3		50		50				C			100
31R	5	2	51		104	110	0.4		5		95				C			100
31R	5	2	51		123	124	0.5				100				C			100
31R	5	2	51		106	110	0.6		5		95				C			100
31R	5	2	51		40	44	0.8	v			100				C			100
31R	5	2	51		52	53	1.2		70		30				C			100
31R	5	2	51		58	75	1.2		20		80				C			100
31R	5	2	51		32	49	1.5		30		70				C			100
31R	5	2	51		29	46	3.5		15		85				C			100
31R	5	2	51		82	85	4		10		90				C			100
31R	5	2	51		84	96	4		50		50				C			100
31R	6	1	51		47	49	0.1		100						C			100
31R	6	1	51		121	121	0.2		95		5				C			100
31R	6	1	51		29	30	0.2		50		50				C			100
31R	6	1	51		9	9	0.3		65		35				C			100
31R	6	1	51		10	16	0.3				100				C			100
31R	6	1	51		3	3	0.7		50		50				C	acicular aragonite		100
31R	6	1	51		92	93	0.7		2		98				C			100
31R	6	1	51		14	30	0.7		80		20				C			100
31R	6	1	51		30	77	0.7	v	30		70				C			100
31R	6	1	51		50	68	0.8		97			3			C			100
31R	6	1	51		91	136	1.8		10		90				C			100
31R	6	1	51		135	138	5	v	100						C			100
31R	7	1	51		40	40	0.1		100						C			100
31R	7	1	51		55	55	0.1		100						C			100
31R	7	1	51		65	65	0.1		100						C			100
31R	7	1	51		82	82	0.1		100						C			100
31R	7	1	51		31	32	0.1		95			5			C			100
31R	7	1	51		77	79	0.1		100						C			100
31R	7	1	51		39	41	0.2		100						C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
31R	7	1	51		19	24	0.2		100						C			100
31R	7	1	51		57	57	0.3		5		95				C			100
31R	7	1	51		6	13	0.3	v			100				C			100
31R	7	1	51		4	4	0.8		90		20				C			110
31R	7	1	51		1	13	1.2		60		40				C			100
31R	7	1	51		16	23	2		30		70				C			100
31R	7	1	51		40	68	2		15		85				C			100
31R	7	1	51		1	38	8		55		45				C			100
31R	7	2	51													no veins		0
31R	7	3	51		113	113	0.1		100						C			100
31R	7	3	51		96	99	0.1		90		10				C			100
31R	7	3	51		99	107	0.1		90		10				C			100
31R	7	3	51		107	110	0.6				100				C			100
31R	7	4	51													no veins		0
31R	7	5	51													no veins		0
31R	7	6	51		129	132	1				100				C			100
31R	7	6	51		128	132	4		15		85				C			100
31R	7	7	51		141	146	1.1	v	10		90				C			100
32R	1	1	51		16	17	0.2		98			2			C			100
32R	1	1	51		18	19	0.2		98			2			C			100
32R	1	1	51		28	29	0.2		10		90				C			100
32R	1	1	51		12	20	0.5		8		90	2			C			100
32R	1	1	51		1	13	1				95	5			C			100
32R	1	2	52		31	41	-		100						A	breccia	10	100
32R	1	3	52		41	44	0.1	v	98			2			C			100
32R	1	3	52		41	41	0.5		95		5				C			100
32R	1	4	52		45	48	0.2		98			2			C			100
32R	1	5	52		50	53	0.2	v			100				C			100
32R	1	5	52		49	53	0.4	v	100						C			100
32R	1	6	52		54	86	0.2		100						C			100
32R	1	6	52		54	56	0.3	v	100						C			100
32R	1	6	52		54	56	0.3	v	100						C			100
32R	1	7	52		58	70	-		100						A	Breccia	2	100
32R	1	8	52		72	82	-		100						A	Breccia	2	100
32R	1	9	52		83	88	-		80		20				B	interpillow	100	100
32R	1	10	52		88	95	-		95		5				A	funny looking sap	15	100
32R	1	11	52		96	107	-		100						A	Breccia	3	100
32R	1	12	52		109	120	-		100						A	Breccia	8	100
32R	1	13	52		121	128	-		80	20					A	Breccia	20	100
32R	1	14	52		128	132	-		100						A	Breccia	5	100
32R	1	15	52													rubble		0
32R	2	1	52		0	13	-		85	10	5				A	Breccia	7	100
32R	2	2	52		14	29	-		80	10	5			5	A	Breccia	2	100
32R	2	3	52		31	39	-		90	10					A	Breccia, hyaloclastite	10	100
32R	2	4	52													rubble		0
32R	2	5	52		51	51	0.4				100				C			100
32R	2	5	52		52	53	0.4				95			5	C			100
32R	2	5	52		50	54	0.4	v			95			5	C			100
32R	2	6	52		60	63	0.1		95			5			C			100
32R	2	6	52		54	62	0.1		95			5			C			100
33R	1	1	52		0	7	0.3				100				C			100
33R	1	1	52		0	4	0.4	v	2		98				C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
33R	1	1	52		0	6	0.8	v	2		98				C			100
33R	1	2	52		25	28	0.2		100						C			100
33R	1	2	52		17	18	0.3				100				C			100
33R	1	2	52		11	22	0.3		40		60				C			100
33R	1	2	52		24	27	0.4		90					10	C			100
33R	1	2	52		13	14	0.5				95	5			C	pyrite halo 1mm		100
33R	1	3	52													rubble		0
33R	1	4	53		40	48	0.2	v	100						C			100
33R	1	4	53		44	48	0.4	v	100						C			100
33R	1	5	53		50	52	0.3		100						C			100
33R	1	5	53		51	55	0.3		98					2	C			100
33R	1	5	53		50	54	0.5		100						C			100
33R	1	6	53													Rubble		0
33R	1	7	53		77	78	0.1		100						C			100
33R	1	7	53		76	86	0.3		98					2	C			100
33R	1	7	53		81	81	0.5				100				C	5mm brown halo		100
33R	1	8	53		100	101	0.4		98					2	C			100
33R	1	8	53		87	97	2.3		9		90			1	C	3mm brown halo		100
33R	1	9	53													no veins		0
33R	1	10	53		107	114	0.4	v	10		90				C			100
33R	1	11	53		115	119	0.1	v	100						C			100
33R	1	11	53		115	119	0.6	v	5		95				C			100
33R	1	12	53		121	129	0.1	v	95		5				C			100
33R	1	12	53		123	130	0.5	v	90		10				C			100
33R	1	12	53		122	130	0.6	v			100				C			100
33R	2	1	53		0	4	0.4	v			100				C			100
33R	2	1	53		3	4	0.5		5		95				C			100
33R	2	2	53		4	8	0.1	v	98			2			C			100
33R	2	2	53		7	8	1.5		95			5			C			100
33R	2	3	53		10	11	0.1		99		1				C			100
33R	2	4	53		12	18	1.6	v	2		98				C			100
33R	2	5	53													Rubble		0
33R	2	6	53		31	31	0.4		5		95				C			100
33R	2	6	53		24	28	0.5	v			100				C			100
33R	2	6	53		24	28	0.5	v	5		95				C			100
33R	2	7	53		40	41	0.2		95			5			C			100
33R	2	7	53		36	44	0.2		100						C			100
33R	2	7	53		43	46	1	v	100						C			100
34R	1	1	53		17	20	0.1	v	90					10	C			100
34R	1	1	53		16	20	0.1		90					10	C			100
34R	1	1	53		55	65	0.1		98			2			C			100
34R	1	1	53		10	13	0.2		95					5	C			100
34R	1	1	53		8	12	0.2		100						C			100
34R	1	1	53		70	74	0.5				100				C			100
34R	1	1	53		83	87	0.5		95					5	C			100
34R	1	1	53		35	37	0.8		10		90				C			100
34R	1	1	53		86	98	0.8		5		95				C	6mm brown halo		100
34R	1	1	53		97	99	1				60			40	C	1mm green halo		100
34R	1	1	53		0	9	1		90					10	C			100
34R	1	1	53		36	42	1.5	v	5		95				C			100
34R	1	1	53		0	2	2	v	5		95				C			100
34R	1	2	53													No veins but 2mm green halo		0

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
34R	1	3	53		114	118	0.1				100				C			100
34R	1	3	53		114	114	0.3				100				C			100
34R	1	3	53		113	114	0.3				100				C			100
34R	1	3	53		108	110	0.4				100				C			100
34R	1	3	53		106	108	0.6				100				C			100
34R	1	3	53		116	121	0.8				100				C			100
34R	1	3	53		116	120	1				100				C			100
34R	1	3	53		108	118	1				100				C	5mm brownish halo		100
34R	2	1	53		64	68	0.1		90					10	C			100
34R	2	1	53		0	10	0.2	v	90		5			5	C	2mm dark halo		100
34R	2	1	53		61	62	0.3		90			10			C			100
34R	2	1	53		26	29	0.3				100				C			100
34R	2	1	53		65	69	0.5			90				10	C			100
34R	2	1	53		31	39	0.5		9		90			1	C			100
34R	2	1	53		26	35	0.5		35		60			5	C			100
34R	2	1	53		34	47	1.5		9		90			1	C			100
34R	2	1	53		6	20	1.5		8		90			2	C			100
34R	2	1	53		48	58	4		9		90			1	C	15mm br/gr halo, oxidized		100
34R	2	2	53		70	81	0.2	v	100						C			100
34R	2	2	53		102	104	0.5		90					10	C			100
34R	2	2	53		103	107	0.5	v	90					10	C			100
34R	2	2	53		104	107	1		80		10			10	C			100
34R	2	2	53		96	100	1			90	10				C			100
34R	2	2	53		78	85	1				100				C	10mm assymetric halo		100
34R	2	2	53		91	104	1		5		95				C			100
34R	2	2	53		84	85	1.5			60	40				C	15mm br/gr halo		100
34R	2	2	53		89	93	1.6				100				C			100
34R	2	3	53		134	135	0.1		98			2			C			100
34R	2	3	53		122	123	0.1		95					5	C			100
34R	2	3	53		129	133	0.1		100						C			100
34R	2	3	53		114	119	0.1	v	95					5	C			100
34R	2	3	53		134	142	0.1		98			2			C			100
34R	2	3	53		134	145	0.1	v	100						C			100
34R	2	3	53		127	128	0.2		90		10				C			100
34R	2	3	53		110	112	0.2		98					2	C			100
34R	2	3	53		123	128	0.2		100						C			100
34R	2	3	53		136	144	0.2	v	100						C			100
34R	2	3	53		143	146	0.4			80	20				C			100
34R	2	3	53		144	146	0.5	v	90					10	C			100
34R	2	3	53		117	130	1	v	35		60			5	C			100
34R	3	1	53		2	6	0.1	v	100						C			100
34R	3	1	53		2	17	0.3	v	90		10				C			100
34R	3	1	53		1	5	1		75		15			10	C			100
34R	3	1	53		4	22	2	v	5		95				C	3mm brown halo		100
34R	3	2	53		28	30	0.2		100						C			100
34R	3	2	53		27	30	0.5	v	95					5	C			100
34R	3	2	53		23	31	0.5	v	95					5	C			100
34R	3	2	53		22	27	1.5		5		95				C			100
34R	3	3	53		33	36	0.3	v	90		10				C			100
34R	3	3	53		36	37	0.5		8		90			2	C			100
34R	3	4	53		41	45	0.2	v	100						C			100
34R	3	4	53		90	95	0.2	v	100						C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
34R	3	4	53		65	71	0.4				100				C	6mm br/gr halo		100
34R	3	4	53		57	60	0.5		9		90			1	C			100
34R	3	4	53		67	75	0.5		20		80				C	3mm gr halo		100
34R	3	4	53		78	88	0.5		5		95				C	4mm gr/br halo		100
34R	3	4	53		49	65	0.5		10		90				C	6mm br/gr halo		100
34R	3	4	53		60	65	0.6	v	100						C			100
34R	3	4	53		45	51	1.5		9		90			1	C	5mm red/br/gr halo		100
34R	3	4	53		45	54	3		10		90				C	5mm red/br/gr halo		100
34R	3	4	53		73	96	3		5	25	68			2	C	4mm gr/br halo		100
34R	3	5	53		101	101	0.1		100						C			100
34R	3	5	53		102	102	0.1		100						C			100
34R	3	5	53		103	103	0.1		100						C			100
34R	3	6	53													Rubble		0
34R	3	7	53													No veins		0
34R	3	8	53		139	145	0.2	v	100						C			100
34R	3	8	53		136	147	0.2		95			5			C			100
34R	4	1	53													Rubble		0
34R	4	2	53													No veins		0
34R	4	3	53		24	24	0.2		20			80			C			100
35R	1	1	53													No veins		0
35R	1	2	53		16	19	0.2		100						C			100
35R	1	2	53		5	16	0.3		100						C			100
35R	1	2	53		7	24	0.5		90		9			1	C			100
35R	1	3	53		33	34	0.2		100						C			100
35R	1	3	53		38	41	0.2	v	90	9				1	C			100
35R	1	3	53		35	37	0.5		98			2			C			100
35R	1	3	53		26	41	0.8	v	10		90				C			100
35R	1	4	53		42	47	0.4	v	100						C			100
35R	1	5	53		49	54	0.2	v	98			2			C			100
35R	1	6	53		59	63	0.2	v	100						C			100
35R	1	7	53		82	84	0.1		100						C			100
35R	1	7	53		85	88	0.1		95			3		2	C			100
35R	1	7	53		113	114	0.2		100						C			100
35R	1	7	53		122	129	0.2		100						C			100
35R	1	7	53		121	129	0.2		100						C			100
35R	1	7	53		66	72	0.3	v	90					10	C			100
35R	1	7	53		66	78	0.3	v	90					10	C			100
35R	1	7	53		89	103	0.4	v	95					5	C			100
35R	1	7	53		113	117	0.5	v	80		20				C			100
35R	1	7	53		122	135	0.5	v	95		5				C			100
35R	1	7	53		113	122	0.8		80		20				C			100
35R	1	7	53		65	67	1.5		90					10	C			100
35R	1	7	53		87	100	6		10		90				C			100
35R	2	1	53		33	34	0.1		95			5			C			100
35R	2	1	53		2	5	0.1		100						C			100
35R	2	1	53		28	34	0.1		100						C			100
35R	2	1	53		40	45	2	v	5		95				C			100
35R	2	2	53		47	50	0.5	v	100						C			100
35R	2	3	53		52	52	0.3		100						C			100
35R	2	3	53		51	51	1		70		30				C			100
35R	2	4	53		67	69	0.2		100						C			100
35R	2	4	53		54	73	0.5	v	100						C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
35R	2	5	53		93	96	0.2		100						C			100
35R	2	5	53		123	128	0.2		99			1			C			100
35R	2	5	53		109	115	0.2		100						C			100
35R	2	5	53		97	97	0.5		10		90				C			100
35R	2	5	53		108	110	0.5		100						C			100
35R	2	5	53		97	100	0.5	v	100						C			100
35R	2	5	53		98	110	0.5	v	100						C			100
35R	2	5	53		76	102	1		95		5				C			100
35R	3	1	53		8	9	0.1		100						C			100
35R	3	1	53		2	2	0.2		100						C			100
35R	3	1	53		28	29	0.2		100						C			100
35R	3	1	53		15	16	0.4		95					5	C			100
35R	3	1	53		15	19	0.4		90		10				C			100
35R	3	1	53		17	22	0.5	v	100						C			100
35R	3	1	53		23	31	0.5		95					5	C			100
35R	3	1	53		1	10	0.5	v	95					5	C			100
35R	3	1	53		20	21	1		90		10				C			100
35R	3	1	53		8	21	1	v	95		5				C			100
35R	3	2	53		35	36	0.2		100						C			100
35R	3	2	53		43	44	0.2		100						C			100
35R	3	2	53		48	50	0.2		100						C			100
35R	3	2	53		44	50	0.2		100						C			100
35R	3	2	53		33	46	0.2		100						C			100
35R	3	2	53		33	38	0.4	v	100						C			100
35R	3	2	53		51	56	0.4	v	90		9			1	C			100
35R	3	2	53		46	53	0.5	v	100						C			100
35R	3	3	53		60	61	0.2		100						C			100
35R	3	3	53		58	61	0.2	v	100						C			100
35R	3	4	53		75	76	0.2		95					5	C			100
35R	3	4	53		71	74	0.2		95					5	C			100
35R	3	4	53		72	78	0.2	v	100						C			100
35R	3	4	53		66	71	0.3	v	90		10				C			100
35R	3	4	53		71	78	1	v	95					5	C			100
35R	3	4	53		65	69	1.5			90				10	C			100
35R	3	5	53		78	86	0.4	v	90	10					C			100
35R	3	5	53		81	83	0.6		90		10				C			100
35R	3	5	53		84	86	2.5	v	90					10	C			100
35R	3	6	53		112	113	0.1		100						C			100
35R	3	6	53		120	121	0.1		100						C			100
35R	3	6	53		86	89	0.1	v	90					10	C			100
35R	3	6	53		112	118	0.1	v	100						C			100
35R	3	6	53		112	122	0.1	v	40		60				C			100
35R	3	6	53		94	96	0.2		100						C			100
35R	3	6	53		142	145	0.2	v	100						C			100
35R	3	6	53		139	146	0.2		100						C			100
35R	3	6	53		86	92	0.3	v	10		90				C			100
35R	3	6	53		136	144	0.3	v	100						C			100
35R	3	6	53		136	138	0.4		100						C			100
35R	3	6	53		124	127	0.4		95					5	C			100
35R	3	6	53		144	146	0.5	v	100						C			100
35R	3	6	53		144	146	0.5		100						C			100
35R	3	6	53		130	137	0.8		95		5				C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
35R	3	6	53		86	88	1	v	10		90				C			100
35R	3	6	53		90	96	1				100				C			100
35R	3	6	53		99	109	1.5		80		18			2	C			100
35R	3	6	53		112	124	1.5	v	5		95				C			100
35R	4	1	53		31	32	0.1		95			5			C			100
35R	4	1	53		48	49	0.1					100			C			100
35R	4	1	53		4	5	0.1		100						C			100
35R	4	1	53		23	27	0.1		95			5			C			100
35R	4	1	53		59	61	0.2		100						C			100
35R	4	1	53		16	21	0.2		90			10			C			100
35R	4	1	53		48	57	0.2		80			20			C			100
35R	4	1	53		0	6	0.4		100						C			100
35R	4	1	53		52	62	0.4		90		10				C			100
35R	4	1	53		57	58	0.6		10		90				C			100
35R	4	1	53		51	56	1		5		95				C			100
35R	4	1	53		8	9	1.2		95		5				C			100
35R	4	1	53		55	57	2	v	5		95				C			100
35R	4	2	53													Rubble		0
35R	4	3	53		81	85	0.2		100						C			100
35R	4	3	53		88	96	0.4	v	10		90				C			100
35R	4	3	53		86	96	0.4	v	30		60	10			C			100
35R	4	3	53		75	90	0.5		80	20					C			100
35R	4	3	53		81	87	1.5			100					C			100
35R	4	4	53													Rubble		0
35R	4	5	53		114	117	0.1					100			C			100
35R	4	5	53		115	122	0.1	v	100						C			100
35R	4	5	53		113	114	0.2		100						C			100
35R	4	6	53													Rubble		0
35R	4	7	53		141	141	0.3		40			60			C			100
36R	1	1	53		0	5	-		60		40				A	Breccia	15	100
36R	1	2	53													No veins		0
36R	1	3	53		11	12	0.1				100				C			100
36R	1	3	53		14	19	0.1		100						C			100
36R	1	3	53		34	34	0.2		100						C			100
36R	1	3	53		23	24	0.2		98					2	C			100
36R	1	3	53		18	23	0.2		100						C			100
36R	1	4	53		42	43	0.1		90		10				C			100
36R	1	4	53		46	47	0.1				100				C			100
36R	1	4	53		115	116	0.1		98					2	C			100
36R	1	4	53		57	58	0.2		10		90				C			100
36R	1	4	53		51	63	0.2	v	90			10			C			100
36R	1	4	53		70	74	0.3		90		9			1	C			100
36R	1	4	53		76	100	0.3	v	90		10				C			100
36R	1	4	53		50	50	0.4				100				C			100
36R	1	4	53		40	48	0.4		90		10				C			100
36R	1	4	53		47	55	0.5		9		90	1			C			100
36R	1	4	53		111	127	0.5		90					10	C			100
36R	1	4	53		51	52	0.6		10		90				C			100
36R	1	4	53		69	70	0.8		10		90				C			100
36R	1	4	53		89	93	2		20		80				C			100
36R	1	5	53													No veins		0
36R	2	1	53		26	27	0.1		100						C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
36R	2	1	53		4	4	0.2		98					2	C			100
36R	2	1	53		34	35	0.2		98			2			C			100
36R	2	1	53		30	31	0.2		100						C			100
36R	2	1	53		5	7	0.2		100						C			100
36R	2	1	53		36	37	0.4				100				C			100
36R	2	1	53		20	37	0.4		10		90				C			100
36R	2	1	53		0	5	0.5	v		90	8			2	C			100
36R	2	1	53		23	25	1		40		60				C			100
36R	2	1	53		0	8	1.2		10		90				C			100
36R	2	2	53		38	41	0.1								C			0
36R	2	2	53		41	45	0.1	v	100						C			100
36R	2	2	53		39	46	0.2		98					2	C			100
36R	2	2	53		43	46	1		98					2	C			100
36R	2	2	53		39	45	1.5		90		9			1	C			100
36R	2	3	53		47	49	0.2		100						C			100
36R	2	3	53		47	51	0.2	v	100						C			100
36R	2	3	53		49	51	0.4	v	98			2			C			100
36R	2	3	53		48	50	0.5		100						C			100
36R	2	4	53		74	74	0.1		10		90				C			100
36R	2	4	53		105	105	0.1		100						C			100
36R	2	4	53		74	75	0.1		100						C			100
36R	2	4	53		100	101	0.1		100						C			100
36R	2	4	53		63	72	0.1		100						C			100
36R	2	4	53		71	71	0.2		100						C			100
36R	2	4	53		72	72	0.2		100						C			100
36R	2	4	53		116	118	0.2		100						C			100
36R	2	4	53		118	120	0.2		100						C			100
36R	2	4	53		65	69	0.2		100						C			100
36R	2	4	53		106	110	0.2		100						C			100
36R	2	4	53		80	85	0.2		100						C			100
36R	2	4	53		120	125	0.2	v	100						C			100
36R	2	4	53		128	133	0.2	v	100						C			100
36R	2	4	53		56	62	0.2	v			100				C			100
36R	2	4	53		56	63	0.2		98					2	C			100
36R	2	4	53		123	133	0.2		100						C			100
36R	2	4	53		75	81	0.3		90		10				C			100
36R	2	4	53		113	119	0.3	v	100						C			100
36R	2	4	53		65	65	0.4		10		90				C			100
36R	2	4	53		128	133	0.5	v	100						C			100
36R	2	4	53		85	91	0.5	v	95					5	C			100
36R	2	4	53		81	93	0.5		90		6			4	C			100
36R	2	4	53		91	121	0.5	v	90			5		5	C			100
36R	2	4	53		52	55	1	v	10		90				C			100
36R	2	4	53		53	57	1		95					5	C			100
36R	3	1	53															0
36R	3	2	53		15	26	-		45		50			5	A		5	100
36R	3	2	53		6	14	0.1	v	100						C	Rubble		100
36R	3	2	53		8	11	0.2		90			10			C			100
36R	3	2	53		11	13	0.4		90		10				C			100
36R	3	2	53		10	15	1	v		90				10	C			100
36R	3	3	53		27	36	-		95		3			2	A		5	100
36R	3	3	53		43	44	0.1		100						C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
36R	3	3	53		41	43	0.2					100			C			100
36R	3	3	53		38	42	0.5		95					5	C			100
36R	3	3	53		34	41	1.5		95					5	C			100
36R	3	4	53		52	52	0.1		95			5			C			100
36R	3	4	53		48	48	0.1		100						C			100
36R	3	4	53		50	52	0.1		100						C			100
36R	3	4	53		54	56	0.1		100						C			100
36R	3	4	53		51	51	0.2		90					10	C			100
36R	3	4	53		54	54	0.2		100						C			100
36R	3	4	53		45	56	0.2	v	90					10	C			100
36R	3	4	53		54	55	0.3		100						C			100
36R	3	4	53		46	46	0.5		90		10				C			100
36R	3	4	53		55	58	3		100						C			100
36R	3	5	53													Rubble (brecciated)		0
36R	3	6	53		71	71	0.1		98					2	C			100
36R	3	7	53		85	97	-		3	35			60	2	A		10	100
36R	3	7	53		82	85	0.2			100					C			100
36R	3	7	53		80	83	0.4			100					C			100
36R	3	7	53		78	81	0.6			100					C			100
36R	3	7	53		81	85	0.6			90				10	C			100
36R	3	7	53		76	81	3			100					C			100
36R	3	8	53													Rubble		0
36R	3	9	53		106	125	-		15	80				5	A		2	100
36R	3	10	53		128	129	0.2		98			2			C			100
36R	3	10	53		135	140	0.2		100						C			100
36R	3	10	53		129	134	0.3	v	98					2	C			100
36R	3	10	53		126	139	0.4		98					2	C			100
36R	3	10	53		135	136	0.5		98					2	C			100
36R	3	10	53		127	133	1.5		90		10				C			100
36R	3	10	53															0
36R	4	1	53		6	7	0.4		95					5	C			100
36R	4	1	53		9	13	0.4	v	10		90				C			100
36R	4	1	53		9	10	0.5		90					10	C			100
36R	4	1	53		3	4	1		90					10	C			100
36R	4	1	53		5	14	1	v	90		5			5	C			100
36R	4	1	53		6	9	1.2		90		2			8	C			100
36R	4	2	53		66	68	0.1		40		60				C			100
36R	4	2	53		28	31	0.1		100						C			100
36R	4	2	53		51	55	0.1				100				C			100
36R	4	2	53		65	78	0.1		98			2			C			100
36R	4	2	53		16	17	0.2		10		90				C			100
36R	4	2	53		38	39	0.2		90		10				C			100
36R	4	2	53		20	23	0.2				100				C			100
36R	4	2	53		32	38	0.2		60		40				C			100
36R	4	2	53		68	76	0.2	v	98			2			C			100
36R	4	2	53		21	29	0.2	v	60		30	10			C			100
36R	4	2	53		55	68	0.2		100						C			100
36R	4	2	53		15	21	0.5		90		8			2	C			100
36R	4	2	53		42	50	0.5				100				C			100
36R	4	2	53		61	69	0.8		90		9			1	C			100
36R	4	2	53		26	42	0.8		90		10				C			100
36R	4	2	53		51	60	1		40		60				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti- cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
36R	4	3	53		131	136	0.1	v	100						C			100
36R	4	3	53		81	88	0.1	v				100			C			100
36R	4	3	53		92	114	0.1		90			10			C			100
36R	4	3	53		110	110	0.2		100						C			100
36R	4	3	53		111	111	0.2		95					5	C			100
36R	4	3	53		105	106	0.2		100						C			100
36R	4	3	53		122	124	0.2		90			10			C			100
36R	4	3	53		118	121	0.2		80		10			10	C			100
36R	4	3	53		125	129	0.2	v	60		40				C			100
36R	4	3	53		82	87	0.2		100						C			100
36R	4	3	53		118	123	0.2		80		10			10	C			100
36R	4	3	53		132	132	0.4		90					10	C			100
36R	4	3	53		108	110	0.4		95					5	C			100
36R	4	3	53		116	121	0.4		80		10			10	C			100
36R	4	3	53		119	130	0.4				100				C	en echelon fractures		100
36R	4	3	53		124	136	0.4	v	80		20				C			100
36R	4	3	53		116	118	0.5		20		80				C			100
36R	4	3	53		115	120	0.5		90					10	C			100
36R	4	3	53		126	136	0.5	v	98					2	C			100
36R	4	3	53		129	131	0.8		90		5			5	C			100
36R	4	3	53		114	115	1		60		40				C	5mm gr/br halo		100
36R	4	3	53		131	136	1	v	80		10			10	C			100
36R	4	3	53		94	106	1	v	5		95				C	Brown halo		100
36R	4	3	53		129	136	1.5	v	90		5			5	C			100
36R	4	3	53		95	118	1.5	v	10		80		10		C	5mm brown halo		100
36R	5	1	53		2	8	0.5		90					10	C			100
36R	5	1	53		0	7	1	v	90					10	C			100
36R	5	2	53		21	31	0.1	v	100						C			100
36R	5	2	53		30	35	0.4	v	100						C			100
36R	5	2	53		17	19	1		90		10				C			100
36R	5	2	53		10	12	1.5		95					5	C			100
36R	5	2	53		20	26	2	v	90					10	C			100
36R	5	2	53		18	19	3		60		40				C			100
36R	5	2	53		10	15	3		90		5			5	C			100
36R	5	2	53		21	29	4	v		90				10	C			100
36R	5	2	53		10	14	8	v	60		40				C			100
36R	5	4	53													Rubble		0
36R	5	5	53		68	69	1.5		80	10				10	C			100
36R	5	6	54		74	77	0.5	v	100						C			100
36R	5	7	54		80	86	0.1	v	100						C			100
36R	5	7	54		80	81	0.5		90					10	C			100
36R	5	8	54													None		0
37R	1	1	54		55	55	0.1		100						C			100
37R	1	1	54		26	27	0.1		100						C			100
37R	1	1	54		42	43	0.1		100						C			100
37R	1	1	54		58	65	0.1		100						C			100
37R	1	1	54		36	45	0.1	v			100				C			100
37R	1	1	54		11	11	0.2		100						C	2 mm brown halo		100
37R	1	1	54		139	140	0.2		100						C			100
37R	1	1	54		11	13	0.2		60		40				C			100
37R	1	1	54		22	24	0.2		100						C			100
37R	1	1	54		7	17	0.2	v	100						C	2 mm brown halo		100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
37R	1	1	54		7	9	0.4		100						C	2 mm brown halo		100
37R	1	1	54		57	57	0.5		50		50				C			100
37R	1	1	54		117	118	0.5				100				C			100
37R	1	1	54		17	21	0.5		5		90			5	C			100
37R	1	1	54		100	100	0.6		60		40				C			100
37R	1	1	54		34	38	0.6				100				C			100
37R	1	1	54		3	5	1		95		4			1	C			100
37R	1	1	54		115	119	1		5		95				C			100
37R	1	1	54		3	10	1		95		4			1	C			100
37R	1	1	54		19	27	1	v	8		90			2	C			100
37R	1	1	54		2	4	2.5		90					10	C			100
37R	1	1	54		16	19	2.5		80		15			5	C			100
37R	1	1	54		64	67	4		15		80			5	C			100
37R	1	1	54		29	33	4				100				C			100
37R	1	1	54		77	85	4		80		10			10	C			100
37R	1	1	54		56	56	5		5		95				C			100
37R	2	1	54		54	54	0.1		100						C			100
37R	2	1	54		59	61	0.1				100				C			100
37R	2	1	54		94	95	0.2		100						C	3 mm dark halo		100
37R	2	1	54		42	43	0.2				100				C			100
37R	2	1	54		80	81	0.2				100				C			100
37R	2	1	54		69	71	0.2				100				C			100
37R	2	1	54		48	53	0.2				100				C			100
37R	2	1	54		71	76	0.2				100				C			100
37R	2	1	54		31	38	0.2	v			100				C			100
37R	2	1	54		74	79	0.4				100				C			100
37R	2	1	54		41	42	0.5				100				C			100
37R	2	1	54		94	104	0.5		90		8			2	C	3 mm dark halo		100
37R	2	1	54		68	74	0.6				100				C			100
37R	2	1	54		60	64	0.8				100				C			100
37R	2	1	54		31	32	1				100				C			100
37R	2	1	54		56	59	1				100				C	8 mm dark halo		100
37R	2	1	54		70	74	1				100				C	3 mm brown halo		100
37R	2	1	54		74	81	1				100				C			100
37R	2	1	54		91	98	1				100				C			100
37R	2	1	54		43	48	1.5				100				C			100
37R	2	1	54		74	84	1.5				100				C			100
37R	2	1	54		43	46	2	v			100				C			100
37R	2	1	54		4	27	2	v	5		95				C			100
37R	2	1	54		104	106	2.5		18		80			2	C			100
37R	2	1	54		44	44	3		18		80			2	C	15 mm dark halo		100
37R	2	1	54		46	49	4		50		50				C			100
37R	2	1	54		74	105	4	v			100				C	6 mm dark halo		100
37R	2	1	54		81	92	6	v	9		90			1	C			100
37R	3	1	54		37	37	0.1		100						C			100
37R	3	1	54		19	20	0.1				100				C			100
37R	3	1	54		10	12	0.1				100				C			100
37R	3	1	54		44	46	0.1				100				C			100
37R	3	1	54		4	7	0.1				100				C			100
37R	3	1	54		47	53	0.1				100				C			100
37R	3	1	54		6	8	0.3				100				C			100
37R	3	1	54		66	70	0.3				100				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
37R	3	1	54		94	95	0.6		5		95				C			100
37R	3	1	54		60	61	1.5		95					5	C			100
37R	3	1	54		1	40	4		60		35			5	C	7 mm gr/br halo		100
37R	4	1	54		50	53	0.1		100						C	5 mm green and brown halo		100
37R	4	1	54		13	13	0.2		95			5			C			100
37R	4	1	54		86	90	0.2				100				C			100
37R	4	1	54		57	62	0.2		100						C			100
37R	4	1	54		7	16	0.2		95			5			C			100
37R	4	1	54		52	53	0.4		90		10				C			100
37R	4	1	54		54	60	0.4		100						C			100
37R	4	1	54		48	52	0.5				100				C			100
37R	5	1	54		125	131	0.5		100						C	3mm brown halo		100
37R	5	1	54		88	121	0.5	v	90		10				C			100
37R	5	1	54		53	88	0.5		90		10				C			100
37R	5	1	54		120	124	0.6		100						C	10 mm brown halo		100
37R	5	1	54		123	131	1	v	100						C			100
37R	5	1	54		38	45	1.5				100				C			100
37R	5	1	54		57	126	10	v	95		4			1	C	carbonate constituents look like extensional fractures cross-cutting saponite vein. 15 mm brown and green halo		100
37R	6	1	54		50	50	0.1				100				C			100
37R	6	1	54		111	123	0.1	v			100				C			100
37R	6	1	54		131	132	0.2				100				C			100
37R	6	1	54		75	83	0.2				100				C			100
37R	6	1	54		59	68	0.2				100				C			100
37R	6	1	54		77	87	0.2	v			100				C			100
37R	6	1	54		74	75	0.4				100				C			100
37R	6	1	54		86	89	0.4				100				C			100
37R	6	1	54		128	131	0.4				100				C			100
37R	6	1	54		143	146	0.4				100				C			100
37R	6	1	54		140	144	0.5				100				C			100
37R	6	1	54		141	146	0.5		100						C	18 mm brown and green halo		100
37R	6	1	54		105	108	0.6				100				C			100
37R	6	1	54		28	33	1				100				C			100
37R	6	1	54		1	7	1		100						C	12 mm gr/br halo		100
37R	6	1	54		33	70	1.5		5		95				C			100
37R	6	1	54		30	33	2		90		10				C	10 mm brown and green halo		100
37R	6	1	54		8	30	2		10		90				C			100
37R	6	1	54		105	112	2.5		5		95				C			100
37R	7	1	54		99	100	0.1		100						C			100
37R	7	1	54		38	40	0.1				100				C			100
37R	7	1	54		98	101	0.4	v			100				C			100
37R	7	1	54		33	43	0.4	v			100				C			100
37R	7	1	54		86	98	0.4				100				C			100
37R	7	1	54		102	104	0.5				100				C			100
37R	7	1	54		97	102	0.5		5		95				C			100
37R	7	1	54		1	11	0.5	v	100						C			100
37R	7	1	54		3	24	0.5		100						C	6mm gr/br halo		100
37R	7	1	54		56	61	1				100				C			100
37R	7	1	54		87	101	1		5		95				C	3 mm brown halo		100
37R	7	1	54		69	74	1.5			35	60	5			C			100
37R	7	1	54		24	37	1.5		10		90				C			100
37R	7	1	54		82	96	1.5				100				C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
37R	7	1	54		20	35	1.5				100				C			100
37R	7	1	54		40	47	2.5		10		90				C			100
37R	7	1	54		78	92	2.5				100				C	3 mm brown halo		100
37R	7	1	54		1	2	3		10		90				C			100
37R	7	1	54		26	39	3.5		9		90			1	C	10 mm gr/br halo		100
37R	7	1	54		103	104	4		5		95				C			100
38R	1	1	54		134	136	0.1				100				C			100
38R	1	1	54		59	64	0.1				100				C			100
38R	1	1	54		106	112	0.1	v	20		80				C			100
38R	1	1	54		127	135	0.1	v			100				C			100
38R	1	1	54		101	103	0.2				98			2	C			100
38R	1	1	54		125	127	0.2				100				C			100
38R	1	1	54		102	105	0.2		4		95			1	C			100
38R	1	1	54		123	126	0.2				100				C			100
38R	1	1	54		132	136	0.2				100				C			100
38R	1	1	54		128	138	0.2				100				C			100
38R	1	1	54		97	98	0.3				100				C			100
38R	1	1	54		102	105	0.3				100				C			100
38R	1	1	54		59	60	0.4		60		40				C			100
38R	1	1	54		32	35	0.5				100				C			100
38R	1	1	54		56	64	0.5				100				C			100
38R	1	1	54		86	94	0.5				100				C			100
38R	1	1	54		87	90	0.7	v	19		80			1	C			100
38R	1	1	54		47	48	0.8				100				C			100
38R	1	1	54		124	136	0.9	v	3		92			5	C			100
38R	1	1	54		90	100	1.2		5		95				C			100
38R	1	1	54		72	73	1.5				99			1	C			100
38R	1	1	54		105	124	1.5	v	3		97				C			100
38R	1	1	54		2	5	1.8		5		95				C	1 mm brown halo		100
38R	1	1	54		86	103	3	v	4		95			1	C			100
38R	1	1	54		122	146	3.5	v	2		71		7	20	C			100
38R	1	1	54		23	31	4				98			2	C	3 mm brown halo; composite vein		100
38R	1	1	54		100	107	5		4		95			1	C			100
38R	1	1	54		45	86	5		19		80			1	C	10 mm br/gr halo		100
38R	2	1	54		129	129	0.1		95					5	C			100
38R	2	1	54		85	86	0.1		80			20			C			100
38R	2	1	54		5	6	0.1				100				C			100
38R	2	1	54		118	119	0.1				100				C			100
38R	2	1	54		15	20	0.1	v			100				C			100
38R	2	1	54		66	67	0.2				100				C			100
38R	2	1	54		54	56	0.2	v	100						C			100
38R	2	1	54		56	59	0.2		80		20				C			100
38R	2	1	54		3	16	0.2				100				C			100
38R	2	1	54		34	36	0.3				100				C			100
38R	2	1	54		124	139	0.7	v	15		80			5	C	breaks down into vein net below 132 cm		100
38R	2	1	54		21	25	0.9				100				C			100
38R	2	1	54		117	124	1		13		85			2	C	4 mm brown halo		100
38R	2	1	54		75	78	1.2				100				C			100
38R	2	1	54		138	139	3		95		3			2	C	17 mm halo (gr/br)		100
38R	2	1	54		3	7	3.2	v	4		90		3	3	C			100
38R	2	2	55		140	142	0.3		100						C			100
38R	2	2	55		140	142	2	v	95					5	C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
38R	2	3	55		146	146	0.1							100	C			100
38R	2	3	55		146	146	0.1		100						C			100
38R	2	3	55		144	144	0.2		100						C			100
38R	2	3	55		148	148	0.2		95					5	C			100
38R	2	3	55		145	148	0.2	v	100						C			100
38R	2	3	55		143	144	1	v	80		15			5	C			100
38R	2	3	55		143	149	2	v	90					10	C			100
38R	3	1	55		11	12	0.4				100				C			100
38R	3	1	55		2	10	0.4	v	20		75			5	C			100
38R	3	1	55		2	12	0.4	v	20		75			5	C			100
38R	3	1	55		7	10	0.5		100						C			100
38R	3	1	55		1	17	0.8	v	5		95				C	vein net		100
38R	3	1	55		13	17	1		35		60			5	C			100
38R	3	1	55		10	17	1	v	15		80			5	C			100
38R	3	2	55		22	22	0.1				100				C			100
38R	3	2	55		20	22	0.1				100				C			100
38R	3	2	55		19	20	1				100				C			100
38R	3	2	55		19	22	2	v	100						C			100
38R	3	3	55		23	26	4	v	95					5	C			100
38R	3	4	55		39	42	0.1		15		80			5	C			100
38R	3	4	55		28	32	0.1	v	100						C			100
38R	3	4	55		27	35	0.1	v	75		25				C			100
38R	3	4	55		27	32	0.2	v	100						C			100
38R	3	4	55		30	37	0.2		100						C	3 mm br halo		100
38R	3	4	55		30	37	0.2	v	20		80				C			100
38R	3	4	55		34	35	0.3		20		80				C			100
38R	3	4	55		34	42	0.3	v	60		40				C			100
38R	3	4	55		27	42	1	v	3		95			2	C			100
38R	3	5	55		46	49	0.2		100						C			100
38R	3	5	55		44	49	0.2		100						C			100
38R	3	5	55		45	48	2	v	100						C			100
38R	3	5	55		44	49	3	v	100						C			100
38R	3	6	55		49	53	-		100						A	hyaloclastite	25	100
38R	3	7	55		54	57	-		100						A	hyaloclastite	25	100
38R	3	7	55		57	60	1	v	100						C			100
38R	3	7	55		57	60	1	v	100						C			100
38R	3	7	55		57	60	1	v	100						C			100
38R	3	8	55		67	70	0.1		100						C			100
38R	3	8	55		67	70	0.1	v	100						C			100
38R	3	8	55		66	70	0.1		100						C			100
38R	3	8	55		64	67	0.2		100						C			100
38R	3	8	55		61	65	0.2	v	100						C			100
38R	3	8	55		61	67	0.2		100						C			100
38R	3	8	55		62	70	0.2	v	100						C			100
38R	3	9	55		88	90	0.1	v	100						C			100
38R	3	9	55		86	90	0.1	v	100						C			100
38R	3	9	55		74	79	0.1		100						C			100
38R	3	9	55		79	82	0.2		100						C			100
38R	3	9	55		85	88	0.2		100						C			100
38R	3	9	55		86	89	0.2		100						C			100
38R	3	9	55		81	85	0.2	v	100						C			100
38R	3	9	55		76	85	0.2	v	100						C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
38R	3	9	55		89	90	0.4		60		40				C			100
38R	3	9	55		73	79	0.5	v	100						C			100
38R	3	10	55		96	100	0.1	v	100						C			100
38R	3	10	55		94	99	0.1		100						C			100
38R	3	10	55		104	106	0.2		100						C			100
38R	3	10	55		100	105	0.2		100						C			100
38R	3	10	55		100	107	0.2		98					2	C			100
38R	3	10	55		91	99	0.2	v	100						C			100
38R	3	10	55		96	98	0.4		75		25				C			100
38R	3	10	55		91	103	0.4	v	60		40				C			100
38R	3	10	55		105	108	6	v	5		95				C			100
38R	3	11	55		114	114	0.1		100						C			100
38R	3	11	55		110	113	0.1	v	100						C			100
38R	3	11	55		110	113	0.1	v	100						C			100
38R	3	11	55		110	114	0.1	v	100						C			100
38R	3	11	55		110	115	0.5	v	50		50				C			100
38R	3	11	55		110	111	2	v	5		95				C			100
38R	3	12	55		118	130	0.2	v	100						C			100
38R	3	12	55		125	130	0.3		100						C			100
38R	3	12	55		125	125	0.4		20		80				C			100
38R	3	12	55		125	130	1	v	10		90				C			100
38R	3	12	55		118	125	1	v	5		95				C			100
38R	3	13	55		131	134	0.1	v	100						C			100
38R	3	13	55		131	134	0.1	v	100						C			100
38R	3	13	55		131	134	0.1	v	100						C			100
38R	3	14	55		137	140	0.2	v	100						C			100
38R	3	14	55		138	142	0.3	v	100						C			100
38R	3	14	55		138	141	0.4		100						C			100
38R	3	15	55		145	147	0.1		100						C			100
38R	3	15	55		144	149	0.1	v	100						C			100
38R	3	15	55		144	150	0.1	v	100						C			100
38R	4	1	55		0	3	0.7	v	90					10	C			100
38R	4	2	55													rubble		0
38R	4	3	55		18	27	0.1		95			5			C			100
38R	4	4	55		33	33	0.1		90			10			C			100
38R	4	4	55		28	29	0.1		80			15		5	C			100
38R	4	4	55		1	2	0.1	v	100						C			100
38R	4	4	55		32	33	0.1	v			100				C			100
38R	4	4	55		24	27	0.1		50		50				C			100
38R	4	4	55		18	23	0.1		95			5			C			100
38R	4	4	55		1	6	0.1		90					10	C			100
38R	4	4	55		1	6	0.1	v	100						C			100
38R	4	4	55		28	33	0.1	v	100						C			100
38R	4	4	55		25	33	0.1	v	100						C			100
38R	4	4	55		3	5	0.2		90					10	C			100
38R	4	4	55		35	51	0.2	v	28		70	2			C			100
38R	4	4	55		21	29	0.9		8		90	2			C			100
39R	1	1	55		13	20	0.3	v	100						C			100
39R	1	2	55		13	19	0.3		100						C			100
39R	1	2	55		18	19	0.5		100						C			100
39R	1	3	55		30	37	0.1	v	100						C			100
39R	1	3	55		45	52	0.1	v	100						C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
39R	1	3	55		23	23	0.2		98					2	C			100
39R	1	3	55		38	41	0.2		100						C			100
39R	1	3	55		35	39	0.2		100						C			100
39R	1	3	55		39	43	0.2		100						C			100
39R	1	3	55		33	41	0.4		100						C			100
39R	1	3	55		23	24	0.5		100						C			100
39R	1	3	55		37	39	0.5		50					50	C			100
39R	1	3	55		29	35	0.5		100						C			100
39R	1	3	55		35	45	0.5		100						C			100
39R	1	3	55		43	53	0.5		98					2	C			100
39R	1	3	55		45	47	1		100						C			100
39R	1	4	55		56	56	0.1		100						C			100
39R	1	4	55		56	59	0.4		95		5				C			100
39R	1	5	55		60	61	0.1		100						C			100
39R	1	5	55		61	68	0.2	v	100						C			100
39R	1	6	55													Rubble		0
39R	1	7	55		73	79	0.2	v	90					10	C			100
39R	1	7	55		78	79	1		90					10	C			100
39R	1	8	55		80	86	-		15		5		80		A	Hyaloclastite	90	100
39R	1	9	55		102	103	0.1		100						C			100
39R	1	9	55		95	97	0.1		100						C			100
39R	1	9	55		97	99	0.1		100						C			100
39R	1	9	55		97	100	0.1		100						C			100
39R	1	9	55		120	122	0.2		60			40			C			100
39R	1	9	55		140	142	0.2		100						C	3mm dark halo		100
39R	1	9	55		90	92	0.2		95					5	C			100
39R	1	9	55		112	118	0.2	v	95			5			C			100
39R	1	9	55		87	93	0.2		95					5	C			100
39R	1	9	55		87	93	0.2	v	95					5	C			100
39R	1	9	55		136	142	0.2	v	100						C			100
39R	1	9	55		112	119	0.2	v			100				C			100
39R	1	9	55		136	143	0.2	v	100						C			100
39R	1	9	55		87	96	0.2		95					5	C			100
39R	1	9	55		135	136	0.4		100						C			100
39R	1	9	55		128	130	0.4		100						C	2mm dark halo		100
39R	1	9	55		110	113	0.4		100						C	5 mm		100
39R	1	9	55		100	102	0.5		90					10	C			100
39R	1	9	55		116	120	0.6		100						C			100
39R	1	9	55		113	121	0.6	v	98		2				C			100
39R	2	1	55													Rubble		0
39R	2	2	55		16	19	0.1	v	100						C			100
39R	2	2	55		14	15	0.2		99					1	C			100
39R	2	2	55		10	15	0.3		90		10				C			100
39R	2	2	55		11	15	0.6		10		90				C			100
39R	2	2	55		20	22	1.2		60					40	C			100
39R	2	2	55		14	20	1.5	v	25		25			50	C			100
39R	2	3	55		32	33	0.1		100						C			100
39R	2	3	55		38	38	0.2		75			25			C			100
39R	2	3	55		24	27	0.2	v	100						C			100
39R	2	3	55		34	40	0.2		100						C			100
39R	2	3	55		24	33	0.2	v	100						C			100
39R	2	3	55		27	40	1.5	v	50		50				C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
39R	2	4	55		48	48	0.2		100						C			100
39R	2	4	55		45	49	0.2		99					1	C			100
39R	2	4	55		51	55	0.2		100						C			100
39R	2	4	55		41	49	0.2		99					1	C			100
39R	2	5	55		56	64	0.1	v	100						C			100
39R	2	5	55		60	64	0.2	v	100						C			100
39R	2	5	55		58	62	1	v	95					5	C			100
39R	2	6	55		65	66	0.4		98					2	C			100
39R	2	6	55		66	70	0.5	v	95		5				C			100
39R	2	7	55		75	76	8		5		95				C			100
39R	2	8	55		79	81	16	v	2		98				C			100
39R	2	9	55		93	95	0.1		100						C			100
39R	2	9	55		82	82	0.2		98					2	C			100
39R	2	9	55		83	84	0.2		98					2	C			100
39R	2	9	55		82	85	0.2	v	100						C			100
39R	2	9	55		93	96	0.2		100						C			100
39R	2	9	55		82	90	0.2	v	100						C			100
39R	2	9	55		82	83	0.4		98					2	C			100
39R	2	9	55		83	85	0.4	v	100						C			100
39R	2	9	55		87	91	0.5		80		20				C			100
39R	2	9	55		90	94	0.5		5		95				C			100
39R	2	9	55		88	93	1		15		85				C			100
39R	2	9	55		93	97	2	v	10		90				C			100
39R	2	10	56													Rubble		0
39R	2	11	56		110	121	-		5		95				A	Breccia	8	100
40R	1	1	56		0	77	-		4		95			1	A	Breccia	20	100
40R	1	2	56		78	81	-		4		95			1	A	Breccia	10	100
40R	1	3	56		82	101	-		10		90				A	Breccia	15	100
40R	1	4	56		103	106	-		50		50				A	Breccia	7	100
40R	1	5	56		108	111	-		100						A	Hyaloclastite	10	100
40R	1	6	56		112	115	-		95		5				A	Breccia	10	100
40R	1	7	56		116	125	-		30		70				A	Breccia	17	100
40R	1	8	56		126	148	-		2		98				A	Breccia	2	100
40R	2	1	56													Rubble		0
40R	2	2	56		7	24	-		5		95				A	Breccia	4	100
40R	2	3	56		78	96	-		8		92				A	Breccia	40	100
40R	2	3	56		96	141	-		17		83				A	Breccia	10	100
40R	2	3	56		27	78	-		5		95				A	Breccia, veins net	3	100
40R	3	1	56		0	40	-		30		70				A	Breccia	2	100
40R	3	5	56		58	95	-		5		95				A	Breccia	5	100
40R	3	8	56		106	111	-		10		90				A	Breccia	5	100
40R	3	9	56		112	130	-		10		90				A	Breccia	5	100
40R	3	10	56		131	134	-		70		30				A	Breccia	3	100
40R	3	11	56		135	137	0.2		100						C			100
40R	3	11	56		135	139	0.2	v	100						C			100
40R	3	12	56		140	145	-		30				70		A	Breccia	3	100
40R	3	2 to 4	56		42	57	-		50		50				A	Breccia	2	100
40R	3	6 to 7	56		96	105	-		60		40				A	Breccia	3	100
40R	4	1	56		0	16	-		60		40				A	Breccia	2	100
40R	4	2	56		17	23	-		10		90				A	Breccia	18	100
40R	4	3	56													Rubble		0
41R	1	1	56		3	3	0.1		98					2	C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
41R	1	1	56		0	4	0.1	v	60		40				C			100
41R	1	2	56													Rubble		0
41R	1	3	56		12	13	0.2	v	100						C			100
41R	1	3	56		13	14	0.2		100						C			100
41R	1	3	56		12	14	0.2	v	100						C			100
41R	1	3	56		12	15	0.2	v	100						C			100
41R	1	4	56													Rubble		0
41R	1	5	56		27	30	0.2		98					2	C			100
41R	1	5	56		30	35	0.2		100						C			100
41R	1	5	56		27	33	0.2		100						C			100
41R	1	5	56		29	35	0.2		100						C			100
41R	1	5	56		28	34	0.4	v	5		95				C			100
41R	1	6	56													Rubble		0
41R	1	7	56		48	56	0.2		100						C			100
41R	1	7	56		51	52	0.3		100						C			100
41R	1	7	56		49	53	0.4		38		60			2	C			100
41R	1	8	56		56	57	0.2		99					1	C			100
41R	1	8	56		56	61	0.2	v	90		10				C			100
41R	1	8	56		59	62	0.3		9		90			1	C			100
41R	1	8	56		56	61	0.4	v			100				C			100
41R	1	9	56		67	77	-		90	1	8			1	A		2	100
41R	1	9	56		64	67	0.2	v	90		9			1	C			100
41R	1	9	56		64	67	0.2	v	98					2	C			100
41R	1	9	56		67	67	0.5		90		10				C			100
41R	1	9	56		64	65	0.6		90		10				C			100
41R	1	10	56													Rubble		0
41R	1	11	56		85	90	-		5		95				A	Breccia	1	100
41R	1	12	57		92	93	0.2		100						C			100
41R	1	12	57		90	95	0.2	v	100						C			100
41R	1	13	57		105	107	0.1		95		5				C			100
41R	1	13	57		112	113	0.2		10		90				C			100
41R	1	13	57		113	113	0.4				100				C			100
41R	1	14	57		118	121	0.1		100						C			100
41R	1	15	57													Rubble		0
41R	1	16	57		135	136	0.4	v	5		95				C			100
41R	1	17	57													No veins		0
42R	1	1	57		36	36	0.1		100						C			100
42R	1	1	57		111	111	0.1		100						C			100
42R	1	1	57		112	112	0.1		95		5				C			100
42R	1	1	57		94	95	0.1		100						C			100
42R	1	1	57		117	118	0.1		90		10				C			100
42R	1	1	57		7	9	0.1		100						C			100
42R	1	1	57		11	13	0.1		90		10				C			100
42R	1	1	57		86	88	0.1		97		3				C			100
42R	1	1	57		105	108	0.1		100						C			100
42R	1	1	57		73	78	0.1		93		7				C			100
42R	1	1	57		21	29	0.1		100						C			100
42R	1	1	57		5	5	0.2		5		95				C			100
42R	1	1	57		38	38	0.2		90		10				C			100
42R	1	1	57		6	7	0.2		50		50				C			100
42R	1	1	57		12	13	0.2		10		90				C			100
42R	1	1	57		42	43	0.2		90		10				C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti- cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
42R	1	1	57		107	110	0.2	v	80		20				C			100
42R	1	1	57		13	18	0.2				100				C			100
42R	1	1	57		110	111	0.3		70		30				C			100
42R	1	1	57		105	107	0.3		20		90				C			110
42R	1	1	57		96	96	0.4		5		95				C			100
42R	1	1	57		30	32	0.4		5		95				C			100
42R	1	1	57		78	88	0.5				100				C			100
42R	1	1	57		30	30	0.6		5		95				C			100
42R	1	1	57		78	81	0.8				100				C			100
42R	1	1	57		100	103	0.8		5		95				C			100
42R	1	1	57		113	118	0.8	v	30		70				C			100
42R	1	1	57		117	118	1	v	10		90				C			100
42R	1	1	57		93	95	1		4		96				C			100
42R	1	1	57		96	100	1	v			100				C			100
42R	1	1	57		102	106	1	v	10		90				C			100
42R	1	1	57		57	57	1.1		40		60				C			100
42R	1	1	57		113	118	1.2		5		95				C			100
42R	1	1	57		115	118	1.5	v	5		95				C			100
42R	1	1	57		114	118	1.5	v	5		95				C			100
42R	1	1	57		116	118	4	v	10		90				C			100
42R	2	1	57		43	56	-		6		93			1	A	4mm brown halo (15%)	6	100
42R	2	1	57		40	40	0.1		70		30				C			100
42R	2	1	57		35	36	0.1		90		10				C	3mm browm halo		100
42R	2	1	57		16	18	0.1		100						C			100
42R	2	1	57		34	37	0.1		90		10				C	2mm browm halo		100
42R	2	1	57		35	38	0.1		90					10	C	4mm brown halo		100
42R	2	1	57		7	10	0.1				100				C			100
42R	2	1	57		33	37	0.1		90		10				C	6mm brown halo		100
42R	2	1	57		36	38	0.2		50		40			10	C	3mm brown halo		100
42R	2	1	57		23	34	0.2		90		8	2			C	acicular aragonite		100
42R	2	1	57		8	11	0.3		90			10			C			100
42R	2	1	57		2	9	0.4	v	38		60	2			C			100
42R	2	1	57		37	39	0.5		15		80			5	C			100
42R	2	1	57		28	33	0.6	v			100				C			100
42R	2	1	57		28	33	1	v	3		97				C	6mm brown halo		100
42R	2	1	57		43	44	1.2		5		95				C			100
42R	2	2	58		58	62	-		30		70				A		2	100
42R	2	3	58		63	71	-		50		50				A	hyaloclastite	5	100
42R	2	4	58		74	85	-		50		50				A	hyaloclastite	5	100
42R	2	5	58		89	93	-		80		20				A		2	100
42R	2	6	58		94	99	-		15		85				A	Breccia	10	100
42R	2	7	58		101	105	-		10		90				A	hyaloclastite	2	100
42R	2	8	58		106	108	-		10		90				A	hyaloclastite	2	100
42R	2	9	58		110	115	-		70		30				A	Breccia	4	100
42R	2	10	58		116	120	-		40		60				A	hyaloclastite	20	100
42R	2	11	58		120	126	-		40		60				A	hyaloclastite	20	100
42R	2	12	58		130	148	-		40		60				A	hyaloclastite	20	100
42R	3	1	58		2	3	0.1	v	100						C	meaningless v		100
42R	3	1	58		2	3	0.1	v	100						C	meaningless v		100
42R	3	1	58		2	3	0.1	v	100						C	meaningless v		100
42R	3	1	58		1	4	0.1	v	40		60				C	meaningless v		100
42R	3	1	58		1	2	0.4	v	30		70				C	meaningless v		100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
42R	3	1	58		1	2	2	v	10		90				C	meaningless v		100
43R	1	1	58													no vein		
43R	1	2	58		5	5	0.1		70		30				C			100
43R	1	3	58		43	43	0.1				100				C			100
43R	1	3	58		13	18	0.1	100							C	dissemintated pyrite halo (1 mm)		0
43R	1	3	58		36	41	0.3		90					10	C			100
43R	1	3	58		33	40	0.3		55		35			10	C	5 mm drk gr halo		100
43R	1	3	58		36	37	0.4		5		90			5	C	7 mm dark green halo		100
43R	1	3	58		40	44	0.5	v	80					20	C			100
43R	1	3	58		30	38	0.6		20		70			10	C	7 mm dark green halo		100
43R	1	3	58		32	34	0.8		80	15				5	C			100
43R	1	3	58		26	29	0.8		20		80				C			100
43R	1	3	58		18	25	1		55	5	20			20	C	1.5 mm halo/dand of py		100
43R	1	3	58		22	23	1.1	v	20		70			10	C			100
43R	1	3	58		43	48	1.2		70					30	C			100
43R	1	4	58		70	71	0.1		70		20			10	C			100
43R	1	4	58		57	59	0.1		95					5	C			100
43R	1	4	58		79	81	0.1	v			100				C			100
43R	1	4	58		59	63	0.1	v	90		10				C			100
43R	1	4	58		55	56	0.2	v	20		80				C			100
43R	1	4	58		51	53	0.2		100						C	6mm drk gr/br halo		100
43R	1	4	58		54	56	0.2		50					50	C			100
43R	1	4	58		75	81	0.2	v	20					80	C			100
43R	1	4	58		52	55	0.3	v	50		40			10	C			100
43R	1	4	58		65	69	0.5		27		70			3	C	1.2 cm drk grn/gry halo		100
43R	1	4	58		55	80	0.7	v	15		80			5	C	5 mm gr/br halo		100
43R	1	4	58		63	64	1.2		70					30	C			100
43R	1	5	58		104	104	0.1		80					20	C			100
43R	1	5	58		86	87	0.1		95					5	C			100
43R	1	5	58		82	84	0.1	v			99			1	C			100
43R	1	5	58		86	89	0.1		100						C			100
43R	1	5	58		118	122	0.1		95					5	C			100
43R	1	5	58		89	90	0.2		80					20	C			100
43R	1	5	58		113	117	0.2		80					20	C			100
43R	1	5	58		81	97	0.3		50		50				C			100
43R	1	5	58		87	90	0.4		30					70	C			100
43R	1	5	58		88	97	0.4		50		50				C			100
43R	1	5	58		82	83	0.6		15		80			5	C			100
43R	1	5	58		82	83	0.8	v	5		95				C	0.7 mm halo, drk, bk		100
43R	1	6	58		123	129	1.2		95	5					C	1 mm br halo		100
43R	1	7	58		130	132	0.8		95	5					C	2mm brn halo		100
43R	1	8	58													rubble		0
43R	1	9	58													no veins		0
43R	2	1	58		4	7	0.4		100						C			100
43R	2	1	58		1	4	0.5		60	40					C			100
43R	2	1	58		1	6	0.5	v	100						C			100
43R	2	1	58		2	7	0.5	v	100						C			100
43R	2	1	58		1	13	1.2	v	60	40					C	5 mm drk halo		100
43R	2	2	58		16	19	0.5		95					5	C			100
43R	2	2	58		22	25	0.5		90					10	C			100
43R	2	2	58		22	25	0.5	v	100						C			100
43R	2	2	58		16	20	0.5		95					5	C			100

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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
43R	2	2	58		19	21	1		70					30	C			100
43R	2	2	58		20	24	1.2	v	60	30				10	C			100
43R	2	2	58		15	26	1.2		50		50				C			100
43R	2	3	58		29	30	0.2		90					10	C			100
43R	2	3	58		33	37	0.2	v	100						C			100
43R	2	3	58		53	57	0.2	v	90					10	C			100
43R	2	3	58		29	35	0.2	v	90					10	C			100
43R	2	3	58		40	41	0.3			100					C	3 mm br halo		100
43R	2	3	58		34	37	0.3	v	100						C			100
43R	2	3	58		45	45	0.4		50	40				10	C			100
43R	2	3	58		29	35	0.4		50					50	C	5 mm br halo		100
43R	2	3	58		30	44	0.4		45	45				10	C	5 mm br halo		100
43R	2	3	58		41	44	0.5			80				20	C			100
43R	2	3	58		45	50	0.5		5		90			5	C			100
43R	2	3	58		52	57	0.5	v		80				20	C			100
43R	2	3	58		47	47	0.6			80				20	C	2 mm drk halo		100
43R	2	3	58		51	52	1		10		90				C			100
43R	2	3	58		41	53	1	v	40	50				10	C			100
43R	2	3	58		30	34	1.5		80	20					C	5 mm brn halo		100
43R	2	3	58		34	39	2	v		90				10	C			100
43R	2	3	58		54	57	2.5			75	15			10	C			100
43R	2	4	58		58	67	2	v		80				20	C			100
43R	2	5	58		80	81	0.2			80				20	C	7 mm drk halo		100
43R	2	5	58		75	78	0.2	v		100					C	7 mm drk halo		100
43R	2	5	58		75	80	0.2	v		100					C	7 mm drk halo		100
43R	2	5	58		93	100	0.5			90				10	C			100
43R	2	5	58		76	86	0.6			90				10	C	7 mm drk halo		100
43R	2	5	58		86	98	0.6		10	70				20	C	7 mm drk halo		100
43R	2	5	58		83	86	0.8			80				20	C	7 mm drk halo		100
43R	2	5	58		98	99	1		40	50				10	C			100
43R	2	5	58		74	76	1			90				10	C	7 mm drk halo		100
43R	2	5	58		79	85	1.5	v		95				5	C	7 mm drk halo		100
43R	2	5	58		75	84	1.5	v		95				5	C	7 mm drk halo		100
43R	2	5	58		88	98	1.5		10	70				20	C	7 mm drk halo		100
43R	2	5	58		99	101	3			95				5	C			100
43R	2	5	58		76	84	3			95				5	C	7 mm drk halo		100
43R	2	5	58		95	101	4	v		95				5	C			100
43R	2	6	58		106	108	0.1		100						C			100
43R	2	6	58		132	132	0.2			90				10	C			100
43R	2	6	58		105	106	0.2		80					20	C			100
43R	2	6	58		117	118	0.2		100						C			100
43R	2	6	58		102	102	0.4			80				20	C			100
43R	2	6	58		132	135	0.4		100						C			100
43R	2	6	58		116	125	0.4		90					10	C	7 mm br halo		100
43R	2	6	58		132	133	0.5		100						C			100
43R	2	6	58		133	136	0.5		100						C			100
43R	2	6	58		116	126	0.8		90					10	C			100
43R	2	6	58		106	111	2			50	30			20	C			100
43R	2	6	58		101	109	4	v		90				10	C	5 mm br halo		100
43R	2	6	58		125	135	4			90				10	C	12 mm br/drk halo		100
43R	3	1	58		0	19	-		15	80				5	A	breccia, 10-20 mm gr/br halo in basalt clasts	13	100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
43R	3	1	58		9	10	0.3				100				C			100
43R	3	2	58		21	22	-		20	75				5	A	1.5 cm gr/br halo in basalt	5	100
43R	3	2	58		41	44	0.3	v	10	10				80	C	gr/br halo 10mm		100
43R	3	2	58		46	46	0.7		2	3	5			90	C	gr/br halo 10mm		100
43R	3	2	58		42	46	0.9		2	3	5			90	C	gr/br halo 10mm		100
43R	3	2	58		44	47	2		15	40	15			30	C	gr/br halo 10mm		100
43R	3	2	58		39	46	2	v	35	35				30	C	gr/br halo 10mm		100
43R	3	3	58		61	65	-		3	15	80			2	A		12	100
43R	3	3	58		68	68	0.1							100	C			100
43R	3	3	58		78	79	0.1		45	10	45				C			100
43R	3	3	58		83	87	0.1		20					80	C	1 mm gr/br halo		100
43R	3	3	58		64	68	0.1		60	20				20	C			100
43R	3	3	58		63	66	0.3		10					90	C			100
43R	3	3	58		79	87	0.6		20					80	C			100
43R	3	3	58		82	87	0.7		50	13	7			30	C			100
43R	3	3	58		63	70	0.8		10	40	40			10	C			100
43R	3	3	58		63	67	0.9		15	5				80	C			100
43R	3	3	58		60	63	1		5	20	15			60	C			100
43R	3	3	58		81	87	1.3		30		20			50	C			100
43R	3	3	58		53	60	1.5		5	5	10			80	C	linked with cel-vein		100
43R	3	3	58		73	74	3.5		25	40	5			30	C			100
43R	3	3	58		48	58	7.5		20	70	5			5	C	gr/br fe-ox halo, 7 mm		100
43R	3	4	58		89	91	0.6		4	4	2			90	C			100
43R	3	4	58		88	94	1	v	25	25				50	C			100
43R	3	5	58		98	100	0.1		90		5			5	C			100
43R	3	5	58		101	104	0.2	v	60					40	C			100
43R	3	5	58		100	100	0.4							100	C			100
43R	3	5	58		96	99	0.5	v	50	50					C			100
43R	3	5	58		95	100	0.5							100	C			100
43R	3	5	58		100	107	0.5		3	15	2			80	C			100
43R	3	5	58		95	98	0.8	v	10		90				C			100
43R	3	5	58		95	100	1.7	v	50		5			45	C	6 mm gr/br halo		100
43R	3	5	58		99	102	4	v	5	5	90				C			100
43R	3	6	58		117	117	0.1		100						C			100
43R	3	6	58		116	117	0.1		90					10	C			100
43R	3	6	58		111	121	0.1		30	40				30	C			100
43R	3	7	58													rubble		0
44R	1	1	59		0	1	0.5				100				C			100
44R	1	2	59		120	124	0.1				100				C			100
44R	1	2	59		111	124	0.1	v			100				C			100
44R	1	2	59		5	6	0.2		90					10	C	5 mm br halo		100
44R	1	2	59		28	29	0.2		90					10	C			100
44R	1	2	59		66	67	0.2		100						C			100
44R	1	2	59		111	112	0.2		100						C			100
44R	1	2	59		123	125	0.2				90			10	C	2 mm br halo		100
44R	1	2	59		15	17	0.2		95					5	C			100
44R	1	2	59		19	21	0.2		95					5	C			100
44R	1	2	59		62	64	0.2		100						C			100
44R	1	2	59		93	98	0.2	v			90			10	C	3 mm br halo		100
44R	1	2	59		31	36	0.2		90					10	C	5 mm br/dk halo		100
44R	1	2	59		44	49	0.2		100						C			100
44R	1	2	59		46	52	0.2	v	90					10	C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
44R	1	2	59		48	54	0.2				100				C			100
44R	1	2	59		4	25	0.3		90					10	C			100
44R	1	2	59		10	10	0.4		90					10	C			100
44R	1	2	59		40	44	0.4		15		80			5	C			100
44R	1	2	59		14	16	0.5		9		90			1	C			100
44R	1	2	59		29	33	0.5		80		15			5	C	5 mm br/dk halo		100
44R	1	2	59		37	43	0.5		15		80			5	C			100
44R	1	2	59		91	98	0.5				95			5	C	4 mm br halo		100
44R	1	2	59		33	40	0.5		15		80			5	C	5 mm br/dk halo		100
44R	1	2	59		105	108	0.6				95			5	C	3 mm br halo		100
44R	1	2	59		89	92	0.6		80					20	C	5 mm br halo		100
44R	1	2	59		74	89	0.8	v			90			10	C	3 mm br halo		100
44R	1	2	59		44	44	1		5		95				C			100
44R	1	2	59		29	30	1		70		20			10	C	10 mm br/dk halo		100
44R	1	2	59		68	71	1		20		80				C	5 mm br/dk halo		100
44R	1	2	59		21	30	1		85		10			5	C			100
44R	1	2	59		89	99	1		5		90			5	C	4 mm br halo		100
44R	1	2	59		96	118	1.5		10		85			5	C	5 mm br halo		100
44R	1	2	59		71	72	2				100				C	7 mm br/dk halo		100
44R	1	2	59		48	59	2		10		85			5	C	6 mm br halo		100
44R	1	2	59		51	68	2.5		10		90				C	7 mm br/dk halo		100
44R	1	2	59		57	69	3		10		90				C	5 mm br halo		100
44R	2	1	59		37	54	-		4		95			1	A		60	100
44R	2	1	59		0	1	0.1		100						C	1 mm br halo		100
44R	2	1	59		107	108	0.1		100						C			100
44R	2	1	59		129	130	0.1		100						C			100
44R	2	1	59		131	132	0.1		100						C			100
44R	2	1	59		65	67	0.1		30		60			10	C			100
44R	2	1	59		18	21	0.1		90					10	C			100
44R	2	1	59		127	130	0.1				100				C			100
44R	2	1	59		135	138	0.1		60		40				C			100
44R	2	1	59		29	33	0.1				90			10	C			100
44R	2	1	59		141	146	0.1	v			100				C			100
44R	2	1	59		71	77	0.1				100				C			100
44R	2	1	59		7	15	0.1				100				C			100
44R	2	1	59		20	21	0.2		90					10	C			100
44R	2	1	59		120	121	0.2				100				C			100
44R	2	1	59		101	103	0.2		100						C			100
44R	2	1	59		29	34	0.2	v			100				C			100
44R	2	1	59		91	92	0.4		10		90				C			100
44R	2	1	59		24	26	0.4	v	90		8			2	C			100
44R	2	1	59		78	80	0.4		10		90				C			100
44R	2	1	59		12	17	0.4		80		15			5	C	5 mm br halo		100
44R	2	1	59		27	37	0.4				100				C			100
44R	2	1	59		122	123	0.5		80		20				C			100
44R	2	1	59		146	147	0.5		10		90				C			100
44R	2	1	59		25	27	0.5		80		15			5	C	5 mm br halo		100
44R	2	1	59		127	129	0.5		80		20				C			100
44R	2	1	59		68	71	0.5		100						C			100
44R	2	1	59		19	23	0.5		10		80			10	C	5 mm br halo		100
44R	2	1	59		33	37	0.5	v			100				C			100
44R	2	1	59		68	70	0.8		10		90				C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti- cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
44R	2	1	59		88	91	0.8				100				C			100
44R	2	1	59		11	18	0.8				100				C			100
44R	2	1	59		27	33	1		80		10			10	C	5 mm br halo		100
44R	2	1	59		106	107	1.2		5		95				C			100
44R	2	1	59		94	100	2		15		85				C			100
44R	2	1	59		22	29	2		80		15			5	C	6 mm br halo		100
44R	2	1	59		23	29	3	v	5		90			5	C			100
44R	2	1	59		73	147	4		10		90				C	6 mm dk/br halo		100
44R	3	1	59		2	9	0.2	v			100				C			100
44R	3	1	59		21	22	0.4				100				C			100
44R	3	1	59		20	23	0.4				100				C			100
44R	3	1	59		15	18	0.5				100				C			100
44R	3	1	59		3	7	0.5		5		95				C	5 mm br halo		100
44R	3	1	59		2	8	0.5	v			100				C			100
44R	3	1	59		6	9	0.6		90					10	C	5 mm br halo		100
44R	3	1	59		19	26	0.6		9		90			1	C	5 mm br/dk halo		100
44R	3	1	59		3	5	0.8				100				C			100
44R	3	1	59		21	28	1		9		90			1	C	5 mm br/dk halo		100
44R	3	1	59		23	27	2	v	9		90			1	C	5 mm br/dk halo		100
44R	3	1	59		1	7	2	v	9		90			1	C	7 mm br/dk halo		100
44R	3	2	59		52	59	0.1	v	80					20	C			100
44R	3	2	59		53	56	0.2				100				C			100
44R	3	2	59		48	58	0.2		90					10	C	5 mm br halo		100
44R	3	2	59		38	40	0.4		4		95			1	C	5 mm br/dk halo		100
44R	3	2	59		40	40	0.5				100				C			100
44R	3	2	59		51	53	0.5		4		95			1	C	3 mm br halo		100
44R	3	2	59		53	59	0.5	v	80		10			10	C	6 mm br halo		100
44R	3	2	59		45	47	1				90			10	C	4 mm dk halo		100
44R	3	2	59		29	35	2.5		4		95			1	C	5 mm br/dk halo		100
44R	3	3	60													rubble		0
44R	3	4	60		78	80	0.1		100						C			100
44R	3	4	60		86	88	0.1		100						C			100
44R	3	4	60		85	93	0.1	v	100						C			100
44R	3	4	60		83	85	0.2	v	100						C			100
44R	3	4	60		85	85	0.2		100						C	6 mm drk halo		100
44R	3	4	60		75	75	0.2		100						C			100
44R	3	4	60		75	76	0.2		100						C			100
44R	3	4	60		83	85	0.2		90					10	C			100
44R	3	4	60		88	93	0.2		95					5	C	15 mm dk halo		100
44R	3	4	60		74	86	0.4	v	90					10	C	4 mm dk halo		100
44R	3	5	60													rubble		0
44R	3	6	60		104	106	0.2		100						C			100
44R	3	6	60		102	105	0.2		100						C			100
44R	3	6	60		109	111	0.5		100						C			100
44R	3	6	60		101	112	0.6	v	95					5	C	6 mm br/dk halo		100
44R	3	7	60		114	122	0.5	v		90				10	C	3 mm dk halo		100
44R	3	8	60													rubble		0
44R	3	9	60		131	139	1	v		80				20	C	1 mm dk halo		100
44R	3	10	60		140	144	0.1	v	90					10	C			100
44R	3	10	60		139	141	0.5		80					20	C			100
44R	3	10	60		143	145	1		5	75				20	C	1 mm dk halo		100
44R	3	10	60		139	148	2	v	100						C	6 mm dk halo		100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
45R	1	1	60		4	6	0.2	v	80					20	C			100
45R	1	2	60		8	10	0.1		100						C			100
45R	1	3	60		13	16	0.4	v	50	40				10	C			100
45R	1	4	60		18	20	0.2		95					5	C			100
45R	1	4	60		22	24	0.2	v	100						C			100
45R	1	4	60		19	24	0.3	v	90					10	C			100
45R	1	5	60													No veins		0
45R	1	6	60		40	44	0.2		100						C			100
45R	1	6	60		37	43	0.4		90					10	C			100
45R	1	6	60		30	35	0.6		80	15				5	C			100
45R	1	6	60		39	39	0.8		90					10	C			100
45R	1	6	60		33	39	0.8		80	10	5			5	C			100
45R	1	7	60		55	57	0.2		90					10	C			100
45R	1	7	60		57	59	0.2	v	80					20	C			100
45R	1	7	60		55	59	0.2	v	80					20	C			100
45R	1	7	60		49	55	0.4		98					2	C			100
45R	1	7	60		47	54	0.4		80					20	C			100
45R	1	7	60		60	60	0.5		70					30	C			100
45R	1	7	60		51	51	0.7		70					30	C			100
45R	1	7	60		59	60	0.8		100						C			100
45R	1	7	60		58	61	1.2		70	25				5	C			100
45R	1	7	60		58	62	1.8		60		40				C			100
45R	1	7	60		51	57	2.5		65		30			5	C			100
45R	1	8	60		65	66	0.1		100						C			100
45R	1	9	60		70	71	-		100						A	Breccia, hyaloclastite	2	100
45R	1	10	60		78	81	1.5		100						C			100
45R	1	10	60		75	75	2		100						C			100
45R	1	11	60		91	94	-		100						A	Breccia hyaloclastite, pillow rim	10	100
45R	1	11	60		87	92	0.2	v	100						C			100
45R	1	11	60		85	92	0.2	v	100						C			100
45R	1	11	60		87	94	0.2	v	100						C			100
45R	1	12	60													Rubble		0
45R	1	13	60		99	105	-		95		5				A	Hyaloclastite	15	100
45R	1	14	60													Rubble		0
45R	1	15	60		112	135	-		60	30				10	A	Breccia	5	100
45R	2	1	60		3	4	0.1				100				C			100
45R	2	1	60		1	3	0.1	v	100						C			100
45R	2	1	60		5	8	0.1	v	100						C			100
45R	2	1	60		26	29	0.1	v			100				C			100
45R	2	1	60		21	26	0.1	v	80		20				C			100
45R	2	1	60		13	19	0.1		95		5				C			100
45R	2	1	60		19	21	0.2		95		5				C			100
45R	2	1	60		59	61	0.2		40		30			30	C			100
45R	2	1	60		8	11	0.2		80					20	C			100
45R	2	1	60		40	45	0.2		100						C			100
45R	2	1	60		29	35	0.2	v	30		70				C			100
45R	2	1	60		39	45	0.2		90		10				C			100
45R	2	1	60		37	38	0.3		100						C			100
45R	2	1	60		58	60	0.3		70					30	C			100
45R	2	1	60		8	14	0.3	v	40		60				C			100
45R	2	1	60		20	26	0.3	v	80		20				C			100
45R	2	1	60		7	8	0.4	v	90					10	C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
45R	2	1	60		46	50	0.5		60		10			30	C			100
45R	2	1	60		3	8	0.5		80					20	C			100
45R	2	1	60		4	10	0.5	v	60		30			10	C			100
45R	2	1	60		6	7	0.6		70					30	C			100
45R	2	1	60		22	26	0.6	v	30		70				C			100
45R	2	1	60		48	50	0.7	v	30		70				C			100
45R	2	1	60		26	32	0.7	v	25		70			5	C			100
45R	2	1	60		54	55	0.8		40		20			40	C			100
45R	2	1	60		55	59	0.8		70					30	C			100
45R	2	1	60		8	12	1.2	v	90					10	C			100
45R	2	1	60		15	19	1.2	v	35		60			5	C			100
45R	2	1	60		21	26	1.3		10		90				C			100
45R	2	1	60		29	32	1.5		70		20			10	C			100
45R	2	2	60													Rubble		0
45R	2	3	60		88	89	0.5		70	10				20	C			100
45R	2	3	60		97	103	0.6		50		30			20	C			100
45R	2	3	60		94	96	0.8		65	5				30	C			100
45R	2	3	60		87	94	1.5		60	20	20				C			100
45R	2	4	60													Rubble		0
45R	2	5	60		118	119	0.6		70					30	C			100
46R	1	1	60		0	1	0.3		100						C			100
46R	1	2	60		6	7	0.2		90					10	C			100
46R	1	2	60		7	15	0.2		100						C			100
46R	1	2	60		5	14	0.2		100						C			100
46R	1	2	60		8	15	0.5			90				10	C			100
46R	1	2	60		5	8	2		10		85			5	C			100
46R	1	3	60		47	48	0.1		100						C			100
46R	1	3	60		45	51	0.2	v	90					10	C			100
46R	1	4	60		92	93	0.1		100						C			100
46R	1	4	60		115	116	0.1		100						C			100
46R	1	4	60		54	56	0.1		100						C			100
46R	1	4	60		98	100	0.1		100						C			100
46R	1	4	60		138	140	0.1		10		90				C			100
46R	1	4	60		93	99	0.1		100						C			100
46R	1	4	60		119	125	0.1		100						C			100
46R	1	4	60		53	54	0.2		50			50			C			100
46R	1	4	60		61	63	0.2		100						C			100
46R	1	4	60		129	132	0.2		100						C			100
46R	1	4	60		133	141	0.2		90			10			C			100
46R	1	4	60		63	73	0.2		90			10			C			100
46R	1	4	60		52	65	0.3		90			10			C			100
46R	1	4	60		73	73	0.4		100						C			100
46R	2	1	60		9	12	0.1		100						C			100
46R	2	1	60		8	12	0.1	v	50					50	C			100
46R	2	1	60		2	8	0.1	v	100						C			100
46R	2	1	60		11	12	0.2		90					10	C			100
46R	2	1	60		9	13	0.2		50					50	C			100
46R	2	1	60		2	2	2		10		90				C			100
46R	2	6	60		65	68	0.1	v	100						C			100
46R	2	6	60		70	74	0.1		60		20			20	C			100
46R	2	6	60		83	87	0.1		20		80				C			100
46R	2	6	60		78	83	0.1	v	90		5			5	C			100

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
46R	2	6	60		95	96	0.2		80					20	C			100
46R	2	6	60		69	71	0.2		60		20			20	C			100
46R	2	6	60		68	69	0.3		30		60			10	C	5 mm brown halo		100
46R	2	6	60		71	79	0.3	v	80		10			10	C			100
46R	2	6	60		114	115	0.4		100						C			100
46R	2	6	60		94	96	0.4				100				C	5 mm br/dk halo		100
46R	2	6	60		83	85	0.4		10		80			10	C			100
46R	2	6	60		91	95	0.4		80					20	C			100
46R	2	6	60		69	70	0.5				100				C			100
46R	2	6	60		78	79	0.5		60		30			10	C			100
46R	2	6	60		71	79	0.5	v	20		60			20	C			100
46R	2	6	60		83	83	0.6		80					20	C			100
46R	2	6	60		65	68	0.6	v			90			10	C			100
46R	2	6	60		108	112	0.6		90					10	C			100
46R	2	6	60		107	115	0.6	v	80		10			10	C			100
46R	2	6	60		105	112	0.8		5		90			5	C	6 mm br/dk halo		100
46R	2	6	60		106	106	1		5		90			5	C	6 mm br/dk halo		100
46R	2	6	60		100	105	1	v		8	90			2	C			100
46R	2	6	60		97	115	1.5	v	10		80			10	C			100
46R	2	6	60		94	111	3	v	10		90				C	5 mm br/dk halo		100
46R	2	7	60													No veins		0
46R	2	8	60		121	124	0.1	v	80					20	C			100
46R	2	2 to 6	60		15	65	-		10	5	80			5	A	Brown+dark halo	3	100
46R	3	1	60		0	7	0.1	v	10		90				C			100
46R	3	1	60		9	12	0.4		90		10				C	5 mm br halo		100
46R	3	1	60		4	7	0.5		10		90				C			100
46R	3	1	60		19	22	0.6				90			10	C	6 mm br halo		100
46R	3	1	60		21	26	0.6		50					50	C			100
46R	3	1	60		4	19	1		10		80			10	C			100
46R	3	1	60		0	22	1	v	50		40			10	C	5 mm br halo		100
46R	3	2	60		43	43	0.1		100						C			100
46R	3	2	60		43	44	0.1		90		10				C			100
46R	3	2	60		43	49	0.2		90		10				C			100
46R	3	2	60		43	46	0.4		80		10			10	C			100
46R	3	2	60		47	48	0.5		100						C			100
46R	3	2	60		36	43	0.6		9		90			1	C	5 mm br halo		100
46R	3	2	60		35	36	1			50				50	C	2 mm br halo		100
46R	3	2	60		41	48	1.5	v	10		90				C			100
46R	3	2	60		44	46	2		90		10				C			100
46R	3	2	60		39	48	2	v	5		90			5	C	5 mm br halo		100
46R	3	3	60		50	53	-		25		75				A	Interpillow	100	100
46R	3	4	60		55	57	0.4	v	90		10				C			100
46R	3	5	60		59	60	0.1		100						C			100
46R	3	6	60		64	66	0.1	v	80					20	C			100
46R	3	6	60		63	67	0.1	v	80					20	C			100
46R	3	7	60		76	79	0.1	v	100						C			100
46R	3	7	60		80	82	0.2		100						C			100
46R	3	7	60		67	71	0.4	v	80		20				C			100
46R	3	7	60		72	76	0.4		90		10				C			100
46R	3	7	60		67	90	2.5	v	20		80				C			100
46R	3	8	60													No veins		0
46R	3	9	60													No veins		0

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
46R	3	10	60													No veins		0
47R	1	1	60		1	1	5		100						C	(hyaloclastite like)		100
47R	1	2	60		10	12	0.1		100						C			100
47R	1	2	60		6	12	0.2	v	100						C			100
47R	1	2	60		12	17	1.5		100						C			100
47R	1	2	60		6	18	4		50		50				C			100
47R	1	3	60		17	22	0.1	v	100						C			100
47R	1	3	60		17	22	0.2	v	90			10			C			100
47R	1	4	60													No vein		0
47R	1	5	60													No vein		0
47R	1	6	60		35	35	0.2		100						C			100
47R	1	7	60		39	39	0.2		100						C			100
47R	1	7	60		39	42	0.2	v	100						C			100
47R	1	8	60													No vein		0
47R	1	9	60													No vein		0
47R	1	10	60													Rubble		0
47R	1	11	60		69	70	0.1					100			C			100
47R	1	11	60		66	79	0.2	v	90			10			C			100
47R	1	12	60													No vein		0
47R	1	13	60		89	93	0.1	v				100			C			100
47R	1	14	60													Rubble		0
47R	1	15	60													Rubble		0
47R	1	16	60		107	108	0.2		50			50			C			100
47R	1	17	60													Rubble		0
47R	1	18	60		120	122	0.1		100						C			100
47R	1	19	60													Rubble		0
48R	1	1	60		6	10	0.2		90			10			C			100
48R	1	2	60		70	71	0.1		95			5			C			100
48R	1	2	60		58	64	0.1					100			C			100
48R	1	2	60		81	82	0.2		60			40			C			100
48R	1	2	60		32	33	0.2		50			50			C			100
48R	1	2	60		35	36	0.2		50			50			C			100
48R	1	2	60		52	55	0.2		90			10			C			100
48R	1	2	60		81	87	0.2		60			40			C			100
48R	1	2	60		29	35	0.2		50			50			C			100
48R	1	2	60		57	71	0.2		100						C			100
48R	1	2	60		29	47	0.2		50			50			C			100
48R	1	3	60		89	90	0.2		100						C			100
48R	1	3	60		93	100	0.2		20		80				C			100
48R	1	3	60		90	100	0.2	v	95			5			C			100
48R	1	3	60		91	97	0.3	v	10		90				C			100
48R	1	3	60		90	100	0.4	v			90	10			C			100
48R	1	3	60		92	96	0.5		90		10				C			100
48R	1	4	60		101	110	0.1		100						C			100
48R	1	4	60		106	109	0.2		90		10				C			100
48R	1	4	60		127	130	0.2		100						C			100
48R	1	4	60		122	127	0.2		100						C			100
48R	1	4	60		105	127	0.2		80		20				C			100
48R	2	1	60		20	23	0.1		90			10			C			100
48R	2	1	60		7	10	0.1		60			40			C			100
48R	2	1	60		27	32	0.1		90			10			C			100
48R	2	1	60		2	32	0.2		95			5			C			100

A Breccia, hyaloclastites
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C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
48R	2	2	60		34	39	0.1	v	90			10			C			100
48R	2	3	60		46	50	0.1	v	80			20			C			100
48R	2	3	60		46	50	0.1	v	50			50			C			100
48R	2	4	60		54	54	0.2	v	90			10			C			100
48R	2	4	60		50	54	0.2	v	90			10			C			100
48R	2	6	60		59	62	0.4	v	90			10			C			100
48R	2	7	60		62	64	0.1	v	80			20			C			100
48R	2	7	60		62	65	0.1		80			20			C			100
48R	2	8	60		70	75	0.1	v				100			C			100
48R	2	8	60		107	108	0.2		90			10			C			100
48R	2	8	60		70	71	0.2		100						C			100
48R	2	8	60		84	87	0.2		95			5			C			100
48R	2	8	60		81	84	0.2		90			10			C			100
48R	2	8	60		106	109	0.2	v	100						C			100
48R	2	8	60		70	74	0.2		100						C			100
48R	2	8	60		100	108	0.2		90			10			C			100
48R	2	9	60		111	113	0.1	v	90			10			C			100
48R	2	9	60		110	114	0.1	v	90			10			C			100
48R	2	10	60		115	117	0.1	v	90			10			C			100
48R	2	11	60		118	120	0.1	v	90			10			C			100
48R	2	12	60													Rubble		0
48R	2	13	60		141	141	0.1		90			10			C			100
48R	2	13	60		139	141	0.1		100						C			100
48R	2	13	60		141	144	0.1		100						C			100
48R	2	13	60		143	147	0.1	v	100						C			100
48R	2	13	60		133	140	0.1		90			10			C			100
48R	3	1	60													Rubble		0
48R	3	2	60		12	14	0.1		100						C			100
48R	3	2	60		23	26	0.1		40			60			C			100
48R	3	2	60		11	20	0.1	v	10			90			C			100
48R	3	2	60		19	28	0.2	v	90			10			C			100
48R	3	3	60													Rubble		0
48R	3	4	60		37	43	0.4		95			5			C			100
49M	1	1			1	3	0.5	v	100						C			100
49M	1	1			1	4	0.5	v	100						C			100
49M	1	1			0	10	1		20		80				C			100
49M	1	2			19	21	0.1		100						C			100
49M	1	2			19	22	0.1		100						C			100
49M	1	2			15	21	0.1		100						C			100
49M	1	2			13	20	0.1	v	100						C			100
49M	1	2			11	20	0.1		100						C			100
49M	1	2			15	19	0.2		100						C			100
49M	1	2			13	19	0.4	v	100						C			100
49M	1	2			11	19	0.4		10		90				C			100
49M	1	2			11	16	1	v	10		90				C			100
49M	1	3			34	34	0.1		90			10			C			100
49M	1	3			31	33	0.1		100						C			100
49M	1	3			28	32	0.1		90			10			C			100
49M	1	3			35	41	0.2		100						C			100
49M	1	3			34	41	0.2	v	100						C			100
49M	1	3			37	45	0.2		100						C			100
49M	1	3			44	47	0.4		40		60				C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
49M	1	3			45	49	0.4	v	100						C			100
49M	1	3			36	42	1		100						C			100
49M	1	3			38	41	1.5	v	100						C			100
49M	1	3			30	38	3		25		75				C			100
49M	1	4			51	51	0.1		100						C			100
49M	1	4			50	54	0.1	v	100						C			100
49M	1	5			60	61	0.1		100						C			100
49M	1	5			59	63	0.2		100						C			100
49M	1	5			54	60	1		100						C			100
49M	1	6														rubble		0
49M	1	7			73	76	0.1	v	100						C			100
49M	1	8			77	78	0.2		100						C			100
49M	1	9			84	87	0.1	v	100						C			100
49M	1	9			83	84	0.2		100						C			100
49M	1	9			81	83	0.4		100						C			100
49M	1	9			81	87	1	v	100						C			100
49M	1	9			81	88	5	v	50		50				C			100
49M	1	10			92	95	-		100						A	hyaloclastite	25	100
49M	1	11			95	98	0.1	v	100						C			100
49M	1	11			97	103	0.2	v	100						C			100
49M	1	11			96	97	0.5		100						C			100
49M	1	11			99	102	0.5		100						C			100
49M	1	11			95	95	1		100						C			100
49M	1	11			101	103	2		100						C			100
49M	1	12			104	109	0.2		95			5			C			100
49M	1	12			109	111	2	v	100						C			100
49M	1	12			107	110	2		95		5				C			100
50M	1	1			0	4	1.8	v	90		10				C			100
50M	1	2														no veins		0
50M	1	3			21	24	-		20		80				A	hyaloclastite	75	100
50M	1	3			11	12	0.1		100						C			100
50M	1	3			18	19	0.1		100						C			100
50M	1	3			15	17	0.1		100						C			100
50M	1	3			13	16	0.1		100						C			100
50M	1	3			12	14	0.2		100						C			100
50M	1	3			9	18	0.2	v	100						C			100
50M	1	4			27	29	-		20		80				A	hyaloclastite	80	100
50M	1	4			29	30	0.1	v	95			5			C			100
50M	1	4			35	37	0.1		100						C			100
50M	1	4			34	35	0.2		100						C			100
50M	1	4			29	38	0.5	v	100						C			100
50M	1	4			37	38	1.8		98		2				C			100
50M	1	5			45	46	0.1		100						C			100
50M	1	5			48	50	0.1		100						C			100
50M	1	5			41	49	0.1	v	100						C			100
50M	1	5			42	45	0.2		100						C			100
50M	1	6			51	54	0.1		90			10			C			100
50M	1	6			52	57	0.1		100						C			100
51M	1	1			33	37	-		100						A	Hyaloclastite	50	100
51M	1	1			1	5	0.1		100						C			100
51M	1	1			1	4	0.1		100						C			100
51M	1	1			3	9	0.1	v	100						C			100

A Breccia, hyaloclastites
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LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
51M	1	1			3	9	0.1	v	100						C			100
51M	1	1			4	10	0.2		100						C			100
51M	1	1			8	9	0.1		100						C			100
51M	1	1			7	10	0.1		100						C			100
51M	1	1			14	15	0.1		100						C			100
51M	1	1			15	28	0.1		100						C			100
51M	1	1			16	30	0.2		100						C			100
51M	1	1			19	28	0.1	v	100						C			100
51M	1	1			28	28	0.1		100						C			100
51M	1	1			30	32	0.1		100						C			100
51M	1	2			40	47	0.1		100						C			100
51M	1	2			41	51	0.8		100						C			100
51M	1	2			48	51	0.4		100						C			100
51M	1	2			52	53	0.1		100						C			100
51M	1	3			56	63	0.4	v	100						C			100
51M	1	3			58	62	0.4		100						C			100
51M	1	3			60	63	1		100						C			100
51M	1	3			62	64	0.1	v	100						C			100
51M	1	4			65	66	0.2	v	100						C			100
51M	1	4			65	66	0.2	v	100						C			100
51M	1	5			71	81	0.8	v	100						C			100
51M	1	5			72	78	0.2	v	100						C			100
51M	1	5			73	75	0.1		100						C			100
51M	1	5			77	81	0.1		95			5			C			100
51M	1	5			80	82	0.1		95			5			C			100
51M	1	5			80	86	0.6	v	100						C			100
51M	1	5			84	86	0.2		100						C			100
51M	1	5			81	86	0.1	v	100						C			100
52M	1	1			1	7	0.1		95			5						
52M	1	1			4	7	0.1		100									
52M	1	1			5	7	0.1		100									
52M	1	1			8	15	0.1	v	95			5						
52M	1	1			11	14	0.1		95			5						
52M	1	1			11	18	0.1		95			5						
52M	1	1			16	17	0.1		60			40						
52M	1	1			18	20	0.1		95			5						
52M	1	2			23	28	0.5		100									
52M	1	2			23	28	0.1		100							2 mm dark halo		
52M	1	2			28	28	0.1		100							2 mm dark halo		
52M	1	2			28	29	1		100							1 mm dark halo		
52M	1	3			30	53	0.5		100									
52M	1	3			30	33	0.1		100									
52M	1	3			31	38	0.5		100									
52M	1	3			34	37	0.2		100									
52M	1	3			37	38	1		100									
52M	1	3			46	47	0.1		100									
52M	1	4			56	60	0.1		100									
52M	1	4			58	63	0.1		100									
52M	1	4			62	66	0.1		100									
52M	1	4			65	72	0.1		100							2 mm dark halo		
52M	1	4			67	72	0.1		100									
52M	1	4			71	71	0.1		100									

A Breccia, hyaloclastites
B interpillow, cherts and clays/carbonates
C Regular veins

LEG 185 VEIN LOG

Core	Sec	piece no.	UNIT	piece length	cmt top	cm bot	(mm) Width	Verti-cal?	% Sap	% Cel	% CO3	% Py	% Qz	% Feox	TYPE	Comments	%Br matrix	total %
801C																		
52M	1	4			70	76	0.1		95			5						
52M	1	4			71	80	0.2	v	100									
52M	1	4			76	80	0.1	v	100									
52M	1	4			79	84	0.1		100									
52M	1	4			80	84	0.1		100									