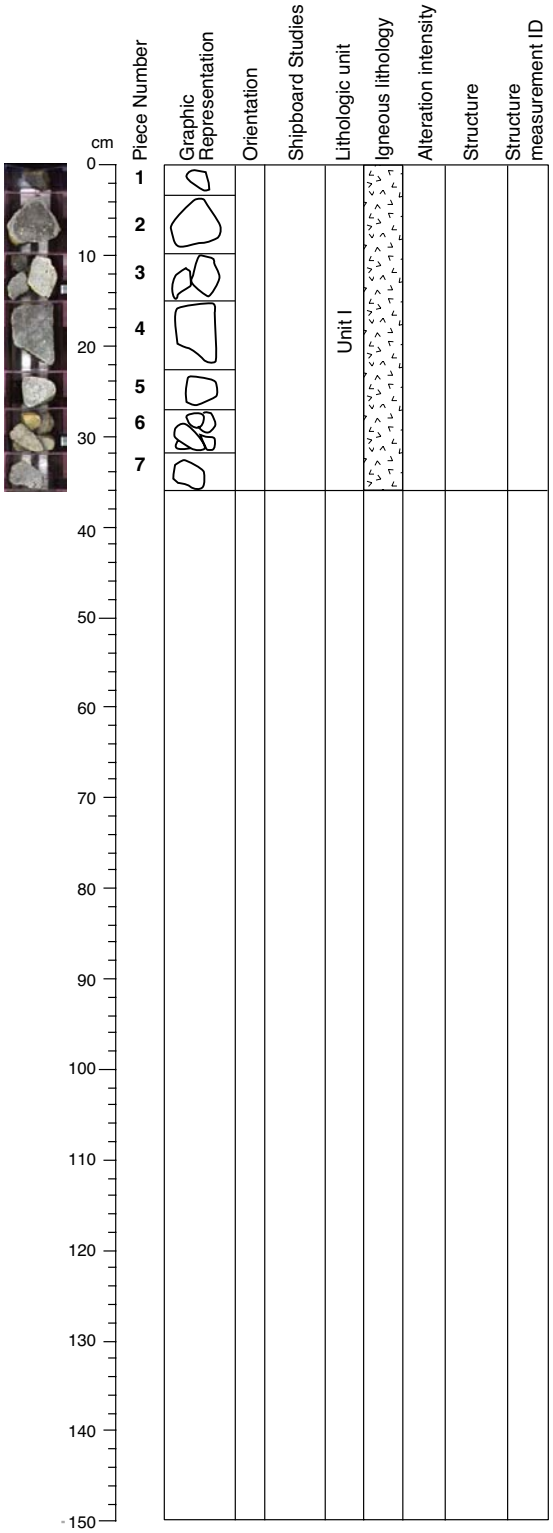
Core Photo



209-1269A-1R-1 (Section top: 0.00 mbsf)

ROCK NAME: BASALT

Pieces 1-7

COLOR: Light gray

PRIMARY MINERALOGY:

Olivine
- Mode 1%-1.5%
- Size 1-2 mm
- Shape/Habit Euhedral

Plagioclase
- Mode 1.5%-2%
- Size 1-2 mm
- Shape/Habit Euhedral

Clinopyroxene
- Mode <1%
- Size 1-3 mm
- Shape/Habit Euhedral

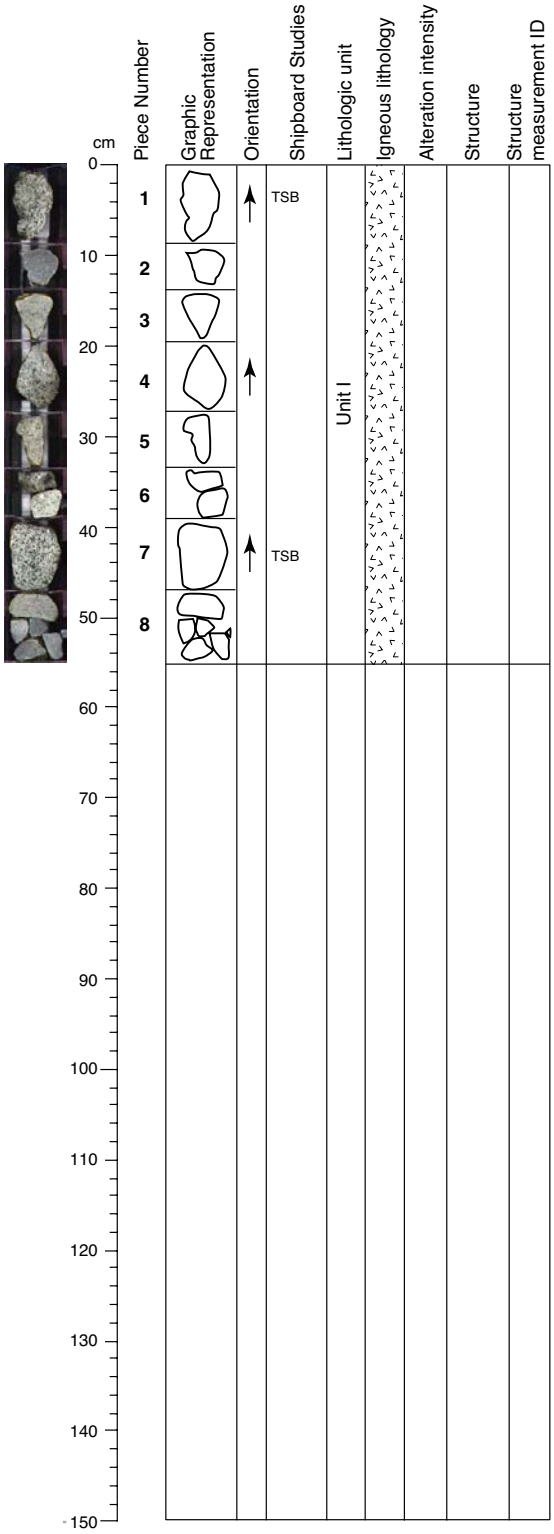
Spinel
- Mode <1%

Vesicles - Mode <1.5%
Size 0.5-1.5 mm

COMMENTS: This section consists of rather fresh porphyritic basalt. Phenocrysts includes olivine and plagioclase with minor amounts of clinopyroxene and spinel. Texture is glomerocrystic.

SECONDARY MINERALOGY:
The basalt is unaltered except for incipient oxidation of olivine in Piece 6.

Core Photo



209-1269B-1R-1 (Section top: 0.00 mbsf)

ROCK NAME: BASALT

Pieces 1-8

COLOR: Light gray

PRIMARY MINERALOGY:

Olivine
- Mode 1%-1.5%
- Size 1-3 mm
- Shape/Habit Euhedral

Plagioclase
- Mode 1%-1.5%
- Size 0.5-2.0 mm
- Shape/Habit Euhedral

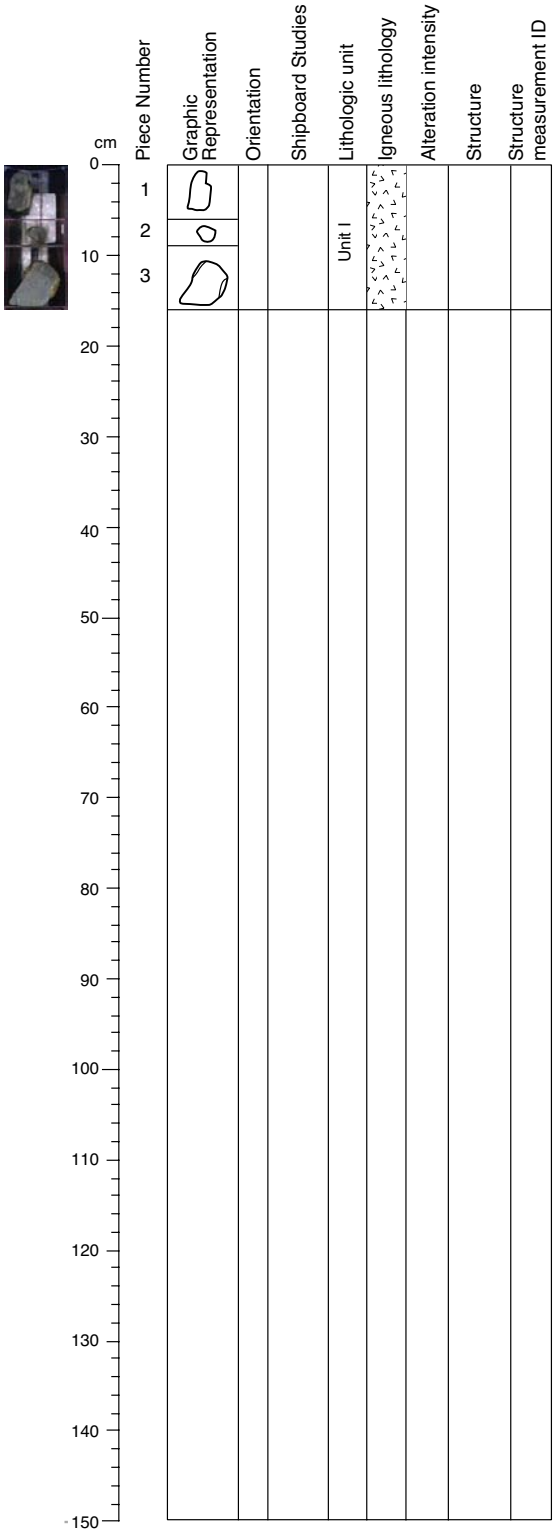
Vesicles -
- Mode <1%-10%
- Size 0.5-2 mm

COMMENTS: This section consists of rather fresh porphyritic basalt. Phenocrysts include olivine and plagioclase with minor amounts of clinopyroxene and spinel. Texture is glomerocrystic. The mode of vesicles is up to 15%.

SECONDARY MINERALOGY:
This basalt is unaltered.

THIN SECTIONS: Samples 1269B-1R-1, 2-5 cm and 1269B-1R-1, 44-46 cm

Core Photo



209-1269C-1R-1 (Section top: 0.00 mbsf)

ROCK NAME : BASALT

Pieces 1-3

COLOR: Light gray

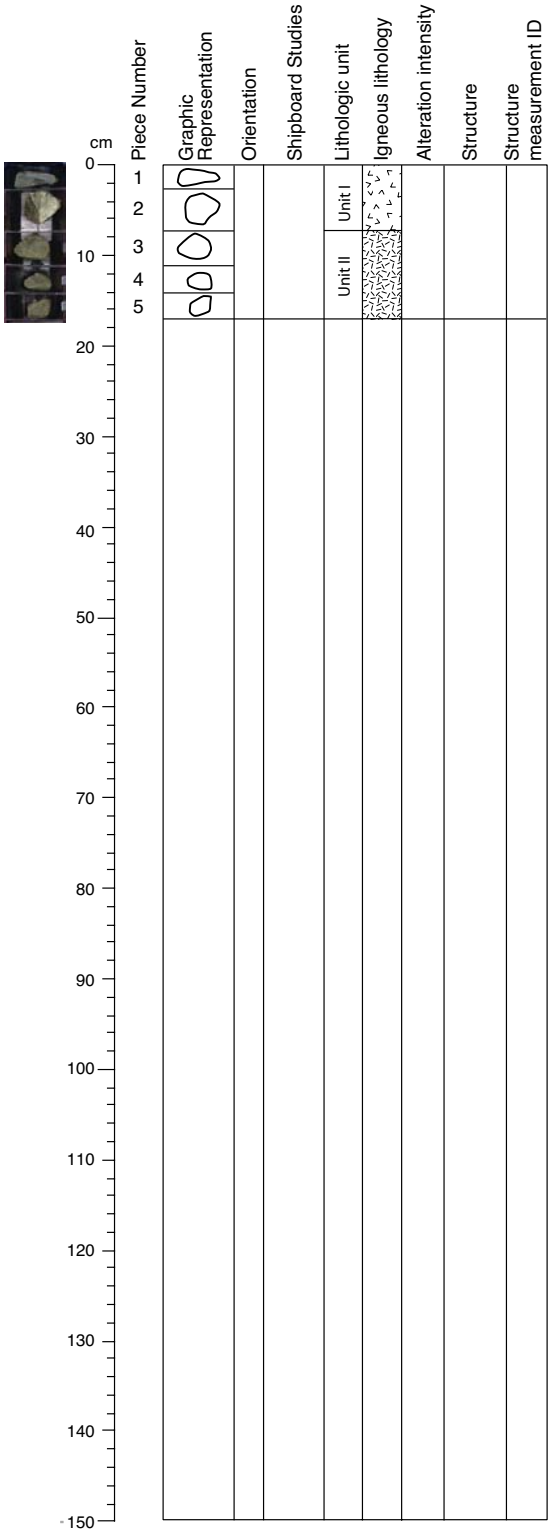
PRIMARY MINERALOGY:
Olivine
- Mode 0.5%
- Size 5 mm
- Shape/Habit Subhedral

Plagioclase
- Mode 0.5%
- Size 0.1-0.5 mm
- Shape/Habit Subhedral

COMMENTS: This section consists of rather fresh aphyric (Pieces 1 and 3) to porphyritic (Piece 2) basalt. Modes of vesicles in Pieces 1, 2, and 3 are 5%, less than 1% and 10%, respectively. Piece 3 is a sector of pillow basalt with variolitic structure toward the rim, which includes a few little chips of fresh glass. Phenocrysts include olivine and plagioclase with minor amounts of spinel. Texture is glomerocrystic.

SECONDARY MINERALOGY:
This basalt is unaltered.

Core Photo



209-1269C-2R-1 (Section top: 12.30 mbsf)

UNIT I

ROCK NAME: BASALT

Pieces 1-2

COLOR: Light gray

PRIMARY MINERALOGY:
- Plagioclase
  - Mode 1%
  - Size 0.1 mm
  - Shape/Habit Subhedral

COMMENTS: This section consists of rather fresh aphyric basalt same as 1269C-1R-1, Pieces 1 and 3.

UNIT II

ROCK NAME: MICROGABBRO

Pieces 3-18

COLOR: Brownish Gray

PRIMARY MINERALOGY:
- Plagioclase
  - Mode 75%
  - Size 0.2 mm
  - Shape/Habit Subhedral to Anhedral
- Clinopyroxene
  - Mode 25%
  - Size 0.1 mm
  - Shape/Habit Anhedral
- Opaque Minerals
  - Mode <%
  - Size <0.5 mm
  - Shape/Habit Anhedral

COMMENTS: The last half of this section consists of fine-grained granular microgabbro including some opaque minerals. Vesicles in Piece 5 are filled with some kind of alteration products.

SECONDARY MINERALOGY:
Mainly fresh vesicular basalt. Piece 4 contains a clay+iron-oxihydroxide veinlet with an irregular greenish-gray halo turning into dark gray near the leading edge. Olivine in this halo is slightly altered to clay and iron-oxihydroxide giving it a reddish appearance.

THIN SECTION:	**209-1269B-1R-1, Piece 1, 2-5 cm**	**TS#62**	**Observer: DG, NA**
ROCK NAME:	**BASALT**		
GRAIN SIZE:	**Fine-grained**		
TEXTURE:	**Microcrystalline intergranular**		

	MODE (Visual estimate)				
PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm)**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS					
Plagioclase	10	10	<0.8	Subhedral to euhedral	
Olivine	1	1	<0.1	Subhedral to anhedral	Spinel inclusions in some phenocrysts
Spinel	<1	<1	<1.8	Subhedral to euhedral	Crystal inclusion in microphenocryst
GROUNDMASS					
Plagioclase	35	35	<0.5		
Clinopyroxene	35	35	<0.5		
Oxide/Opaque Minerals	2	2	0.02		
Glass	0	0			
VESICLES					
Vesicles	15	15			

GENERAL COMMENTS Some plagioclase and olivine phenocrysts form clots.

SECONDARY MINERALOGY

Rock is unaltered.

STRUCTURAL GEOLOGY

Rock is undeformed.

THIN SECTION:	**209-1269B-1R-1, Piece 7, 44-46 cm**	**TS#63**	**Observer: DG, NA**
ROCK NAME:	**BASALT**		
GRAIN SIZE:	**Fine-grained**		
TEXTURE:	**Intersertal, microcrystalline**		

	MODE (Visual estimate)				
PRIMARY MINERALOGY	**PERCENT PRESENT**	**PERCENT ORIGINAL**	**SIZE (mm)**	**MORPHOLOGY**	**COMMENTS**
PHENOCRYSTS/ MICRO-PHENOCRYSTS					
Plagioclase	10	10	0.5-30	Subhedral euhedral	Zoning and inclusions in large phenocryst, some spinel inclusion.
Olivine	1	1	0.6	Anhedral to subhedral	
Spinel	<1	<1	0.1-0.6	Subhedral to euhedral	Melt and/or mineral inclusions in large grains.
GROUNDMASS					
Plagioclase	35	35	<0.5	Euhedral	
Clinopyroxene	35	35	<0.5	Subhedral to euhedral	Quench crystals
Oxide/Opaque Minerals	2	2	0.02	Subhedral to anhedral	
Glass	2	2			
VESICLES					
Vesicles	15	15	0.2-2		

GENERAL COMMENTS

Very fresh. Small euhedral spinel inclusions in some olivine and plagioclase phenocrysts.
Less crystaline, more glassy and more spinel phenocrysts in this thin section than in TS#62 (Sample 209-1269B-1R1 Piece 1, 2-5 cm).
Grain size in groundmass is larger than TS#62 (Sample 209-1269B-1R1, Piece 1, 2-5 cm).

SECONDARY MINERALOGY

Rock is unaltered

STRUCTURAL GEOLOGY

Rock is undeformed