DATE: 15 August 1984 SAMPLE:
CRUISE ID: SO 33 47 DK box dredge
LOC: VI
AREA: D (N of SP lee Guyot)

	time (GMT)	LAT (N)	LON (W)	water depth (m)	wire ou
ON BOTTOM =	1736	9°11.217	164°53.46	~1420	1470
OFF BOTTOM =	1837				1452
mean dredge data (corrected):		9°10.02"	164°53'46"	1388 (759 fm)	

RECOVERY WEIGHT: Total 0.10 kg crust 0.09 kg
0.01 basal

CRUST THICKNESS: .5 – 1 cm Avg = 1 cm
knobby crust w/ scour surfaces
2 generations

SUBSTRATE: 10 gm of olivine basalt

COMMENTS:
1 sponge
* 1 bio taken

47 ~~GTV~~ DK

Sample Description

Cruise I.D: So 33 Sample I.D: Sta: 45, 47 DK Location: SP Lee Su area

9°10'02" N
164°53'46" W
(-)1388 m.

Size: _____ Weight: _____

Mn crust thickness:

Total: min: _____ max: _____ ave: _____

Inner crust: min: _____ max: _____ ave: _____

Outer crust: min: _____ max: _____ ave: _____

Surface texture: _____

Internal structure: _____

layered: _____
laminated: _____
massive: _____
porous: _____
dendritic: _____
other: _____

Mineralogy (XRD): _____

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: _____

Description: _____

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:

	45GTV1	47DK1
Rock Type:	Globigerina(?) ooze	Olivine Basalt
Color:	very pale orange (10YR 8/2)	Moderate yellowish-brown (10YR 5/4) to Dark yellowish-brown (10YR 4/2)
Texture:		Microphyric; intersertal, subtrachytic
Phenocrysts:		Olivine, ±20%, ±0.50 mm Augite(?) <<1%, ±0.75 mm
Groundmass:		Olivine plagioclase clinopyroxene? glass opaques → not determined
Vesicles: %:		
Size:		extremely variable (±0.20 mm – ±4 mm) (±1 mm diameter avge)
Shape:		round to irregular, flattened
Filling:		calcite lining, on most, filling ~10% of total number of vesicles.
Alteration:		extensive; (oxidation, hydration; iddingsitization of olivines, smectitization, zeolitization of glass, carbonation)
Remarks:		a few pebble-size clasts of basalt from dredge bears a fragment or two of moderate brown phosphorite on upper surface, $Fe(OH)_3$? stains; like other nearby samples, probably altered hydrotherm even before being erupted, rare Mn-oxide dendr and veinlets on fracture faces, filling fractures.