DATE: 14 August 1984 SAMPLE:
CRUISE ID: SO 33 43 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 =	2130	9°11.619	164°46.189	~16 =	1700
OFF BOTTOM =	2254				1360
mean dredge data (corrected):		9°11'50"	164° 46' 12"	1502 (821 fm)	

RECOVERY WEIGHT = Total 1 kg

CRUST THICKNESS = Veneer

SUBSTRATE = basalt, subangular, solid, no fresh surfaces
Cobble = 10 × 20 cm

COMMENTS:
Cobble kept by BGR for age-date

43 DK

Sample Description

Cruise I.D: SO 33

Sample I.D: Sta: 43 Dk

Location: SP Lee Sm area
9°11'50" N
164°46'12" W
(-) 1502 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:

DK1

Rock Type: Olivine basalt, massive AOB(?)

Color: Dark brownish-gray (5YR 3/1)

Texture: Microphyric, pilotaxitic(?) hyalopilitic

Phenocrysts: Olivine, ± 20%, ± 0.50 mm

Groundmass: glass
olivine
plagioclase?
clinopyroxene?
opaques
} not determined

Vesicles: %: ± 2%
size: 0.75 mm avge
shape: irregular elongate
filling: zeolites? (most are full)

Alteration: extensive (oxidation, hydration, smectitization of glass (?)
iddingsitization of olivines, zeolitization(?))

Remarks: Small amount of dredge sample recovered: mostly subangular to subrounded pebble-size clasts of dense olivine basalt; general appearance is of material which has been subjected to transport by water (wave action?) for a short time prior to final deposition; most are coated with a thin film of $Fe(OH)_3$(?) or possibly hematite; rock has a definite tendency to break in a "stair-step" fashion, indicating alignment of crystal components (directed texture); Mn-Oxide found loose in the dredge with the basalt pebble as flat, laminated fragments, and a few warty, knobby-surfaced ones. -43 DK 2