L5-85-NC

Gorda Ridge

Sample Descriptions

#7

Gorda Ridge

✓ D10 - X-ray basalt on one end (Clague - basalt info) ask Alice if she X-raying basalts. If not, X-ray one from ea. dredge.

✓ D13 - same as above

✓ D22 - chem if all these before D29 are from same general area. Charlaine think from D29 on is where seamounts started

✓ D23 X-ray

D29 13 - P.T.S., chem of separate layers X-ray 1st, both layers (13 + 15) same rock Do nothing to (14) + (15)

(16) - X-ray +

(12) Looks like D22. Just X-ray mn

(11) X-ray mn + interior of nodule

(9) " subs. + crust. Are inclusions mn or basalt.

(8) ~~Doubly P.T.S.~~, X-ray } ← whichever is thickest + looks like it'll hold together best do doubly P.T.S.

(6) Like 8.

(5) Upr. rt. one. P.T.S., chem, submit separate layers. X-ray only, other 4

(7) Submit separate layers of mn for chem

D30 (1) Upr left. bulk chem. + each layer (4 layers)

D34 (2) outer + inner layer for chem, same rock as 6 which doesn't appear to have inner + outer layer. Submit one of these rx for chem

D36 (1) piece in upr left save for textural study

For every ~~general~~ dredge haul

① % of rocks coated w/ crusts

② " " " broken from outcrop vs. talus

③ Ave. thickness of crusts

④ " " " " on outcrop vs. talus samples

⑤ Is there a dominant ~~textural type~~ or surface texture type?

Isotopes for Hsueh-Wen

inner & outer from one of D29-~~M3~~ M13 thru ⑮

" " " D29-M5C

big X-acto knife

— Walt has X-rayed [illegible] from esp. Free Jackson Seamounts

29D-3b, 3c, 4b1, 4b2, 4b3, 4b4, 4b5, 4b6,
4c, 4d, 18,

31D-1C 31, 32, 10, 11, 12, 13v, 13m

36D-4C, 19,

— Alice - see if she has Lynn's remembrings. (Has slides w/ it.) or Jan

— Dave Claque says don't X-ray basalts - he has loads of T.S.'s

x29-M5C
photograph

DATE: 7-14-88

THIN SECTION ORDER

NAME: Lisa Gein

LOT NO: _____ (if any)

rec'd in full 8/31/88

SAMPLE NUMBER	Standard Thin Section with cover glass	Polished Thin Section	DoublyPolished Thin Section	Impregnation (clear)	REMARKS
1 L9-84-CP D6-2 upr			X		As marked. Please mark up arrow ↑.
2 L9-84-CP D6-2 lwr			X		" " " " " " "
3 L5-85-NC D36-2			X		As marked.
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					- Please include upper surface of crust in
15					① and ③
16					- Please make the break between ① and ② as narrow
17					as possible so there is as little discontinuity
18					between ① + ② as possible (say 1 mm if possible).
19					- Section locations are marked on all slides
20					- Please note that crust-substrate contact is in-
21					cluded in the sections for ② and ③.
22					- Sections need to be continuous from surface of crust
23					thru crust-substrate contact as we do microprobe
24					chemistry and detailed petrography to study changes
25					on a continuous interval through crusts.

(For additional numbers see reverse.)

(USGS TO COMPLETE THE FOLLOWING:)

VENDOR -- The above samples are assigned BPA Call No. 94W-9018. Please send sections and residue to the following address:

U.S. Geological Survey
1020 O'Brien Drive
Menlo Park, CA 94025

Attn: Lisa Gein, MS-999

my phone # is (415) 354-3151

SEND INVOICES TO:

U.S. Geological Survey
345 Middlefield Road, MS-999
Menlo Park, CA 94025

D37 rich crust w/ vuggy [illegible]

D42-2 [illegible]

D52 lg rxo all Mn

D55-1 hymoth. Mn w/ pebbles

trachytic texture. feldspar microlites in ground.
mass have subparallel arrangement corresponding to flow
vuggy - vesicular lines of lava

textures
smooth
granular
abraded
knobby
bottom dal
porous
vuggy