S037 2GK Loc I Ar. H

Date: 18.05.1995 Pinger on core [illegible]

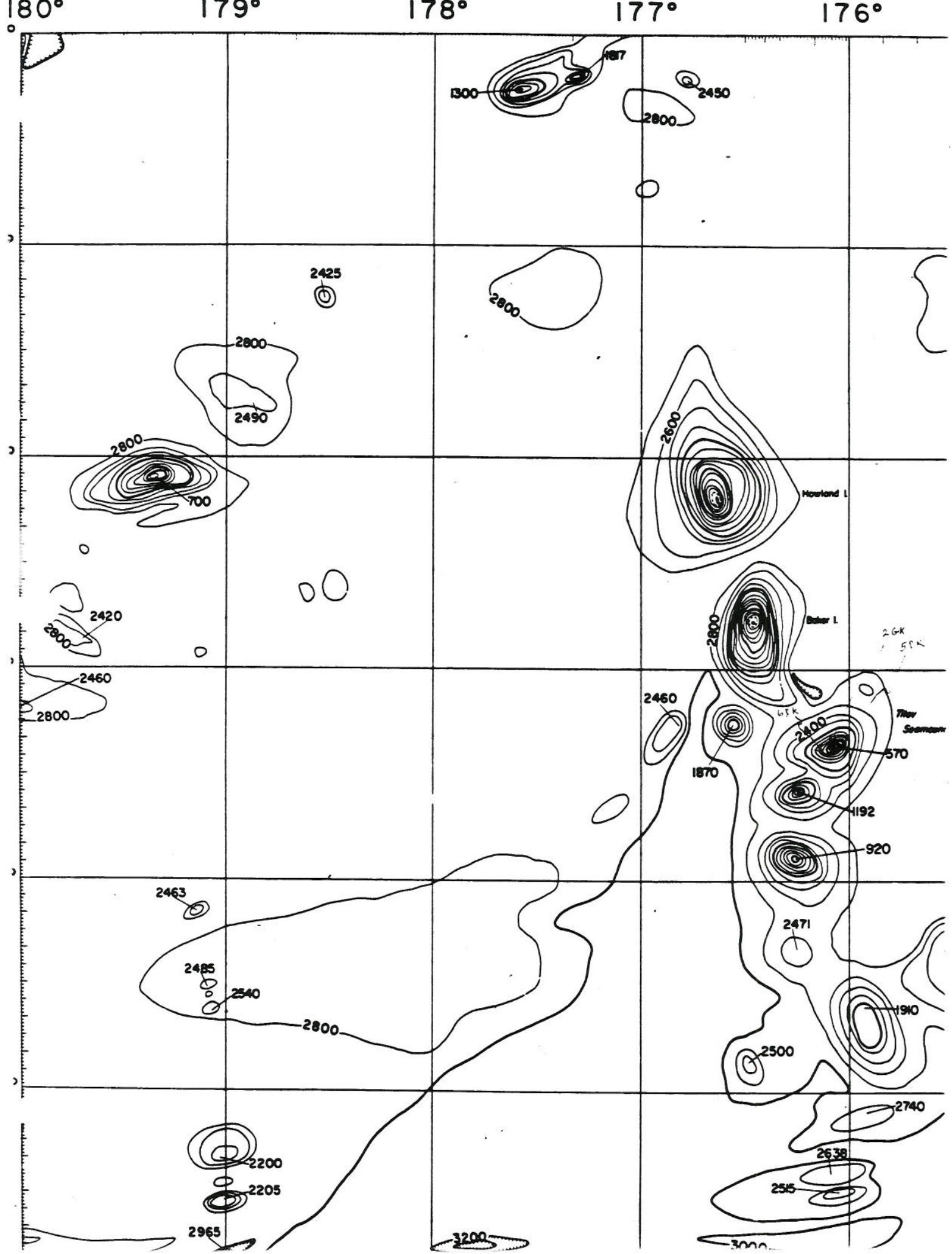
| | | Lat N | Long W | | |
|---|---|---|---|---|---|
| Beam operation | 18.51 | 0°20'[illegible]" | 176°05'[illegible]" | 1 | [illegible] |
| Bottom contact: | 19.27 | 0°20'736" | 176°05'39" | | [illegible] |
| sampling: | 19.27 | 0°20'74 | 176°05'36" | 2 | [illegible] |
| end operation: | 19.55 | 0°20'66" | 176 05'22" | | [illegible] |

Total Time 64 min

Main Material recovered: Foram Sand [illegible]

Total weight of recovery ~4 kg

Corrected Main Location: [illegible] 17.[illegible]


180°
179°
178°
177°
176°
1887
1300
2450
2800
2425
2800
2800
2490
2800
700
2600
Howland I
Baker I.
2420
2800
2460
2800
2460
2400
570
1870
1192
920
2463
2471
2485
2540
2800
1910
2500
2740
2200
2205
2638
2515
2965
3200

**Sample Description** VC 1.7 CG

**Cruise I.D:** [illegible] 2 GK 1 **Sample I.D: Sta:** SP 1.— **Location:** Area H

**Size:** 1"x1"x **Weight:** ~10g

Lat. 0° 20' [illegible]

176° 05' 3[illegible]

**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:**

Total [illegible] 4kg

**Analyses and subsamples:**

| analysis: | analyst: |
|---|---|
| | |

**Substratum:**

**Rock type:** Phosphorite

**Description:** [illegible] dense hard [illegible] material in form of [illegible] pebbles; color pale brown (5YR 5/2), avge [illegible] ± 0.10 mm; porosity <1%; permeability <1%; appears to have a tephraceous component

**Mineralogy (XRD):**

## Sample Description

**Cruise I.D:** 5037 **Sample I.D: Sta:** 2GK 2 **Location:** [illegible] (Titou [illegible])

**Size:** [illegible] x 0.25" **Weight:** ~10 g.

**Mn crust thickness:**

**Total:** min: ____ max: ____ ave: ____

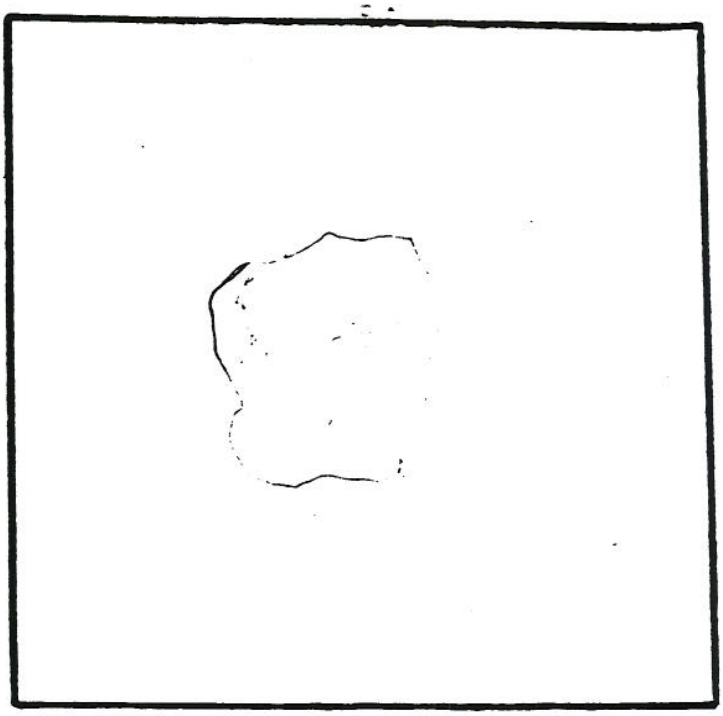
**Inner crust:** min: ____ max: ____ ave: ____

**Outer crust:** min: ____ max: ____ ave: ____

**Surface texture:** ____

**Internal structure:** ____

layered: ____
laminated: ____
massive: ____
porous: ____
dendritic: ____
other: ____



**Mineralogy (XRD):** ____

**Associated alteration, phosphorite, or hydrothermal deposits:**

[illegible], [illegible] transparent [illegible] color [illegible] sh-orange (10YR 7/4) to dark yellowish-brown (10YR 4/2)

**Substratum:**

**Rock type:** Phosphorite

**Description:** [illegible] dense [illegible] crystalline pebble-size but displaying some vacuoles. Color medium dark gray (N5) [illegible] substrate for phosphorite described above, porosity + 5%, permeability 0%. [illegible] boundary between phosphorite types, marked by irregular, rusty zone

**Mineralogy (XRD):** ____

**Analyses and subsamples:**

| analysis: | analyst: |
|---|---|
| Phosphorus | D. Puteanus |

## Sample Description

**Cruise I.D:** SO 37 **Sample I.D: Sta:** 2GK 2 **Location:** [illegible]

**Size:** 0.5"x0.5"x0.25" **Weight:** ~5 g

**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:** Phosphorite, manganiferous

**Description:** very dense, laminated, pebble-size clast, subangular, porosity < 2%, permeability 0%, color grayish-black (N2) all these samples display corrosion, polishing

**Mineralogy (XRD):**

**Analyses and subsamples:**

| analysis: | analyst: |
|---|---|
| | |

## Sample Description

**Cruise I.D:** SO 37 **Sample I.D: Sta:** 2 GK 1 **Location:** Arch H (Titans [illegible])

**Size:** ~1 cm x 2 cm x 6 mm **Weight:** ~20 g

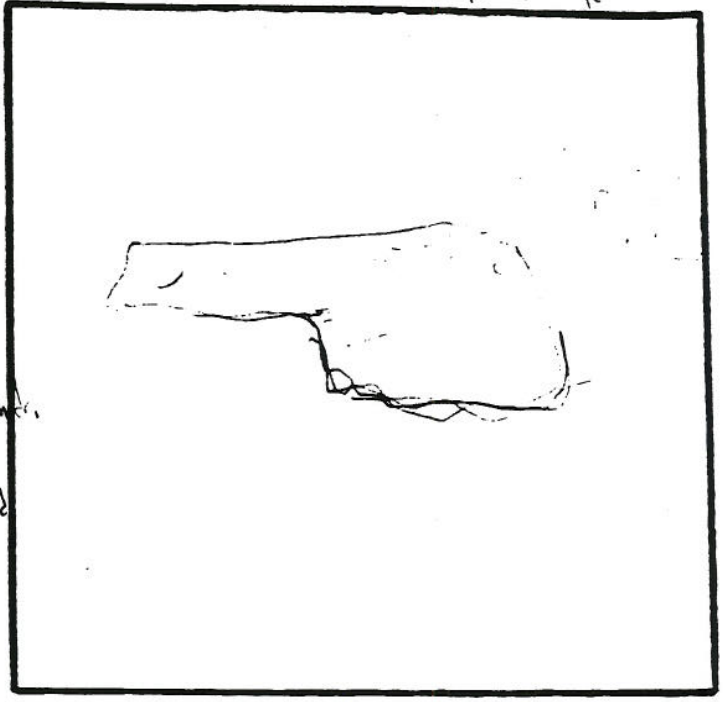
Remarks: very hard, sharp subangular fragments - very dense (phosphorite) crust; crust is cross-fractured and infilled w/ phosphorite

**Mn crust thickness:**

**Total:** min: 15 mm max: 17 mm ave: 16 mm

**Inner crust:** min: 9 mm max: 11 mm ave: 10 mm

**Outer crust:** min: 5 mm max: 7 mm ave: 6 mm



**Surface texture:** no dose

**Internal structure:**

layered: cyclical laminated / dendritic
laminated: very finely laminated, intergrown w/ dendr.
massive:
porous: very dense
dendritic: alternating with laminated, layered
other:

**Mineralogy (XRD):**

**Associated alteration, phosphorite, or hydrothermal deposits:**

central dense yellowish-brown phosphorite layer, ~0.5 mm thick

**Substratum:**

**Rock type:** - absent -

**Description:**

**Mineralogy (XRD):**

**Analyses and subsamples:**

| analysis: | analyst: |
|---|---|