

10005

Sample 10005 consists of regolith material which came from the first drive tube. The sample was taken approximately 10 feet from the second drive tube, 10004. (Both were approximately 20 feet northwest of the Lunar Module.) It penetrated to a depth of 10cm, recovering 53.4 gm of material.

Like 10004, it was opened in the Bio-Prep Lab where one-half of the sample was removed for biological testing. It was not x-rayed or dissected. There was no evidence, however, of stratigraphic disturbance caused by movement of the material inside the drive tube. It showed weak coherence and was fractured in places.

During PET examination, some of the material is 10005 was sieved. (Fig.15). However, the amount of material sieved is unknown and the sieve fractions obtained have been consumed in biological experiments.

HISTORY AND PRESENT STATUS OF SAMPLES – 10/13/76

10005 was removed from the ALSRC #1004 in the Vacuum Lab. It was then transferred to the Bio-Prep Lab where it was opened and allocated to the Bio Pool.

PRISTINE SAMPLES

0	5.798 gm	Core remainder. Vac-BP-SSPL
6	0.18 gm	Fines Vac-BP-SSPL
54	0.80 gm	Fines Vac-BP-SSPL

The largest returned sample is ,33 (12.378 gm). The rest are less than 1gm in weight.

CHEMICAL ANALYSES

Element	Number of Analyses	Mean	Units	Range
Al ₂ O ₃	1	13.98	PCT	0
TiO ₂	1	8.01	PCT	0
FeO	5	15.98	PCT	1.8
MnO	4	0.213	PCT	0.006
CaO	1	12.31	PCT	0
Na ₂ O	1	0.441	PCT	0
Ba	1	140	PPM	0
Sc	1	62	PPM	0
V	1	66	PPM	0
Cr ₂ O ₃	1	0.297	PCT	0
Co	1	32	PPM	0
Zr	1	340	PPM	0
Hf	1	8	PPM	0
La	1	15.5	PPM	0
Sm	1	11.9	PPM	0
Eu	1	2.1	PPM	0
Yb	1	11.1	PPM	0
Lu	1	1.6	PPM	0
Th	1	0.8	PPM	0

Analysts: Wakita et al.,(1970); Finkel et al., (1971).

No Age References