

INTRODUCTION: 65778 is a coherent, light gray, poikilitic impact melt (Figs. 1 and 2). It is a rake sample. Zap pits are abundant.

PETROLOGY: R. Warner et al. (1976b) provide a brief petrographic description and mineral compositions (Fig. 3). Dowty et al. (1976) tabulate the mineral analyses.

65778 is a poikilitic impact melt with oikocrysts of predominately low-Ca pyroxene enclosing abundant chadacrysts and clasts of plagioclase (Fig. 2). R. Warner et al. (1976b) mention "several lithic fragments." Accessory phases include ilmenite (4.8-5.4% MgO), Fe-metal (5-8.2% Ni, 0.4-0.5% Co), and a "K-rich phase" (10.1-14% K₂O).

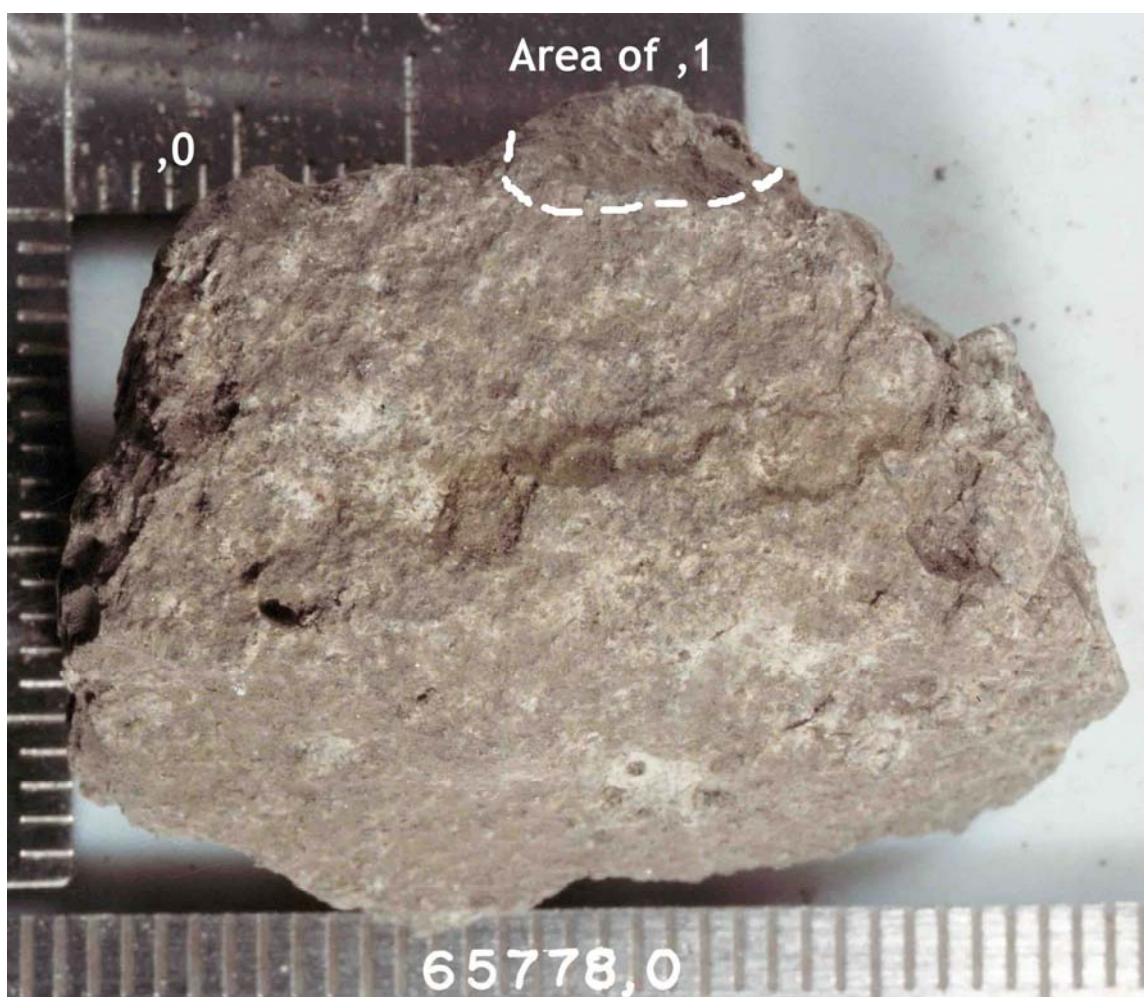


FIGURE 1. Smallest scale division in mm. S-72-48815.

CHEMISTRY: A defocussed electron beam analysis of 65778 is given by R. Warner et al. (1976b) and reproduced here as Table 1.

PROCESSING AND SUBDIVISIONS: A chip (,1) was removed and allocated to Keil for thin sectioning and petrography.

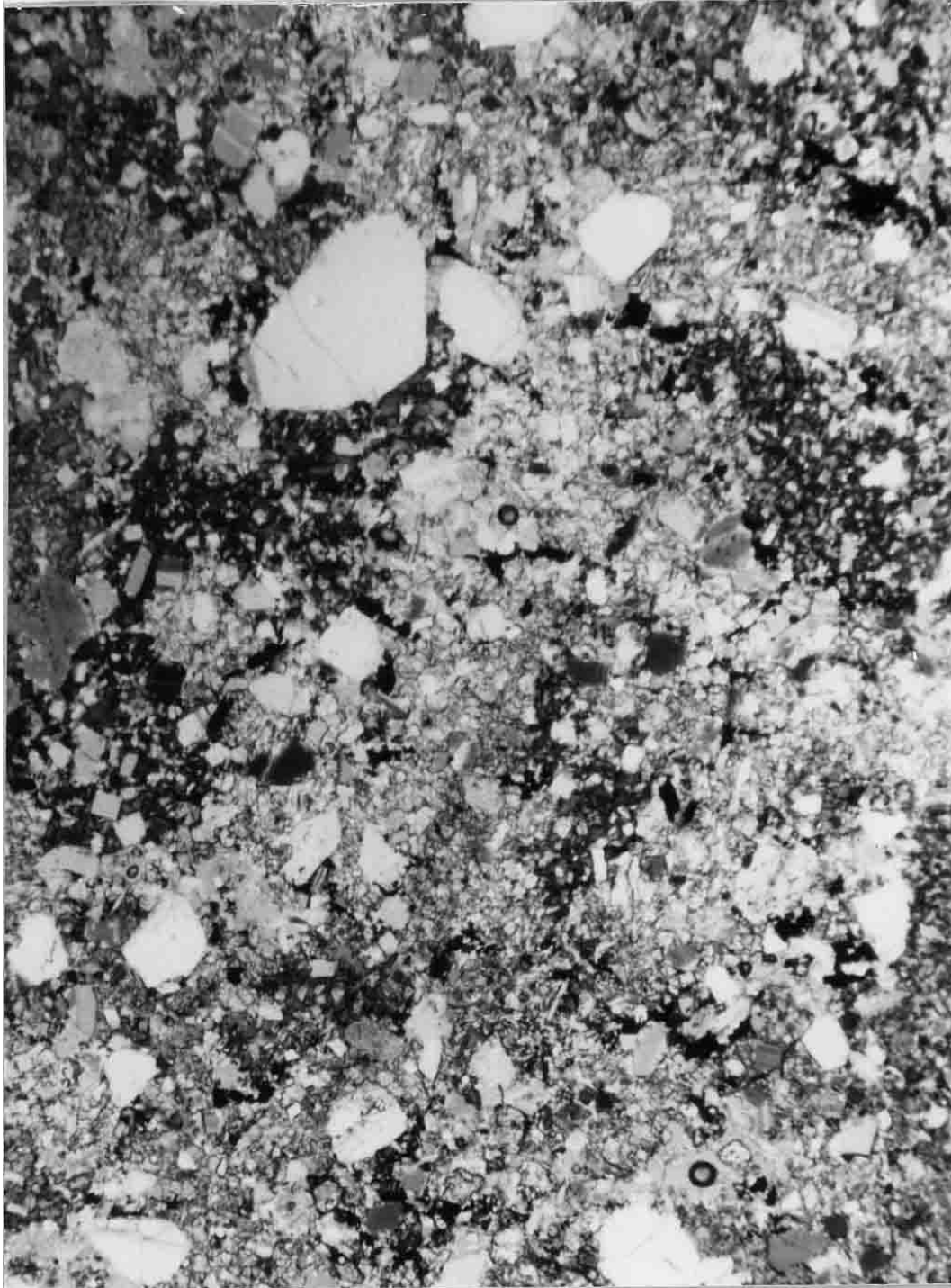


FIGURE 2. 65778,2. General view, partly xpl. Width 2 mm.

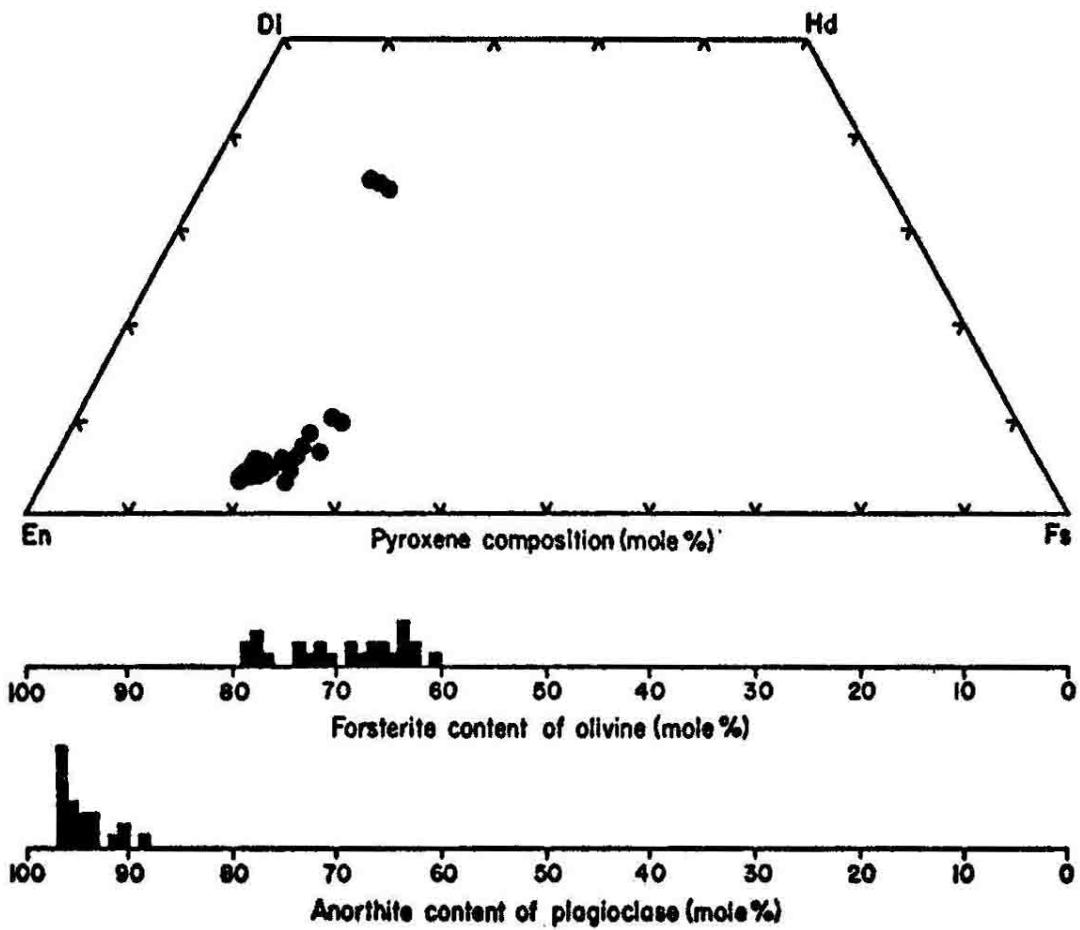


FIGURE 3. Mineral compositions; from R. Warner et al.(1976b).

TABLE 1. Summary chemistry of 65778 (wt%).

SiO ₂	47.3
TiO ₂	0.88
Al ₂ O ₃	21.6
Cr ₂ O ₃	0.13
FeO	6.8
MnO	0.06
MgO	9.7
CaO	12.5
Na ₂ O	0.52
K ₂ O	0.29
P ₂ O ₅	0.27