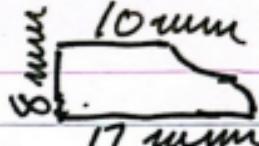


Albion (Washington, USA)

3 Jan 93



Strongly reheated IVH structure.

Bandwidth  $\approx 0.28$  mm, OF.

No visible inclusions

Tenile lamellae are now represented by "dots" of tenile, the result of strong heating

Our compositional data are essentially identical to those for Gibeon, which is widely distributed. To my knowledge Gibeon does not show this reheated structure, so there is reason to support the ASU view that the iron is a new-independent ~~iron~~-meteorite.

Aldama (LC 1240)

21 May 97



Regular Widmanstätten pattern

Bandwidth 0.4-1.2 (uncorrected)

Plessite: net type

Taenite: all 'lamellae' appear as stringers of  $5-10 \mu$  particles or irregular masses of taenite (reheating)

Schreibersite: not observable

Thermal history: has been reheated, structures are severely modified

This Al-Chromium  
sample is the only  
unweathered piece  
in the Smithsonian  
Collection

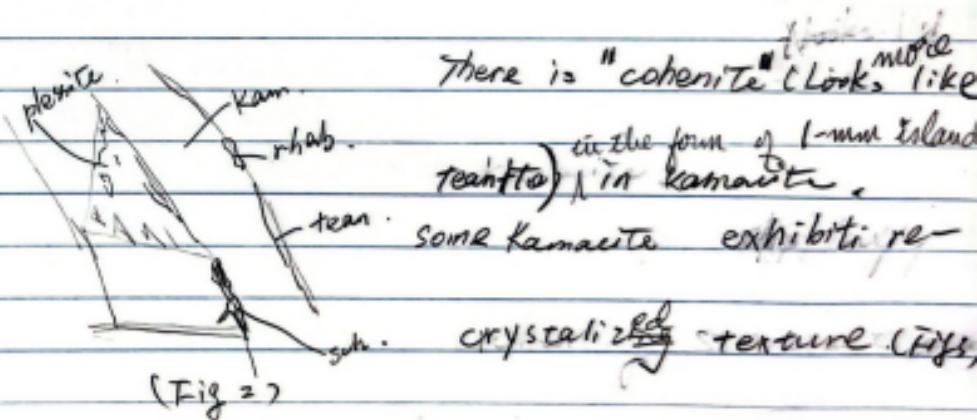
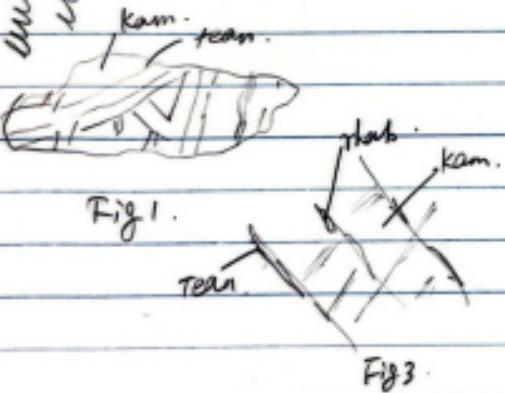
2 Feb. 89: The polished and etched surface is 13x5mm, we can see

Widmanstätten structure of straight. (Fig. 1) Kamacite

lamellae with a width of 0.7-1mm. Taenite and

rhabdite occurs at rim of Kamacite. Also, we can observe

plessite, schreibersite occurs at rim of plessite. (Fig. 2)



CANION DIAZOUL CAP C RO

# Algoma (Wisconsin, USA)

13 VII 68. Sample weighing ~ 10g from V. Wisconsin. Polished and etched 30 sec nital. Kam bands quite sharply defined, wide taenite borders. Kam bands vary greatly in width, & with a gradation down to plessite bands 0.05cm across, but approaching 1cm in width. The "primary" bands vary from about 0.7 to 1.4 mm. Even a single, continuous band can show such variations. This suggests the difficulties which band width measurements encounter (or rapid cooling-rate determinations!). Bachwald class Om-Og. Schreibersite present as small ( $0.05 + 0.2$  mm) inclusions, chiefly at grain boundaries, but sometimes in the bands. No other inclusions observed. Light weathering inward from crust. The structure consists almost entirely of <sup>Kam</sup> bands, of which 80% of area could be called plessite.

27 VI 88 DJM

ALISKEROV



Slightly swollen garnacite bands  
of varying widths ~ 1.5 - 2.0 mm.

Numerous tiny rhabdites and a few  
larger schreibersite inclusions.

No sulfides; no silicates; no carbides seen. DJM  
Mean band width by TTW  $1.3 \pm 0.2$

Small dark squareish inclusions  
were observed by TTW and confirmed by DJM.  
AER showed them to be daubrescite. Thus  
no carbides have been found, despite the  
gross chemical resemblance to III-C