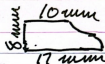


Albion (Washington, USA)

3 Jun 93



Strongly reheated 10H structure.  
Bandwidth  $\sim 0.28$  mm, OF.

No visible inclusions

Taenite lamellae are now represented by "dots" of taenite, 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



↑  
6.5 mm  
↓

Regular Widmanstätten pattern

Bandwidth 0.4-1.2 (uncorrected)

Plessite: not 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

2 Feb. 89: The polished and etched surface is  $13 \times 5 \text{ mm}$ , we can see

Widmanstätten structure of straight. (Fig. 1) Kamacite

lamellae with a width of  $0.7 - 1 \text{ mm}$ . Teanite and

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

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

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



Fig. 1.

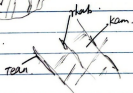
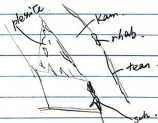


Fig. 3.



(Fig. 2)

There is "cohenite" (look like <sup>flake like</sup> <sup>micro</sup> teanite) in the form of 1-mm island in kamacite.

Some kamacite exhibits re-crystallized texture (Fig. 3)

# Algoma (Wisconsin, USA)

13 VI 68. Sample weighing ~ 10g from W. Wisconsin. Polished and etched 30 sec nital. Kam. bands quite sharply defined, wide taenite borders. Kam bands vary greatly in width, ~~g~~ with a gradation down to plessite bands 0.05 cm across, but approaching 1 cm 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!). Buchwald class Om-Og. Schreibersite present as small (0.05 x 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.

ALISKEROV

27 VI 88 DJM



Slightly swollen kamacite bands  
of varying widths  $\sim 1.5 - 2.0$  mm.  
Numerous tiny rhabdites and a few  
larger schreibersite inclusions.

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

Small dark squarish inclusions  
were observed by JTW and confirmed by DJM.  
AER showed them to be daubresite. Thus  
no carbides have been found, despite the  
iron chemical resemblance to IIIc.