

BBD 1 BLAU BANK DONGA MODIKWE COPPER SITE

30/11/04

STRONGLY MAGNETIC SLAG NODULE

BLACK SLAG, VERY GLOSSY FRACTURES, WITH SMALL CHARCOAL IMPRESSIONS

47 x 20 x 24 mm

43.86 g

1 PETROGRAPH POLISHED THIN SECTION BBD 1

~~IRON BLOOM NODULE?~~ - METACRYSTALLINE SECTION ONLY

- NOT IRON BLOOM - COPPER ~~WAS~~ SMELTING NODULE, GRAINED WITH ROUND DROPLETS OF METAL AND EUTECTIC INTERGROWTH - ~~UNUSUAL~~
- MATRIX OF MAGNETITE, FAYALITE GLASS
- ALL THE METAL DROPLETS ARE INTERGROWTHS OF COPPER AND BLUE SULPHIDE? NO - ARSENICAL
- VERY INHOMOGENEOUS, SOME AREAS HAVE FAR MORE MAGNETITE, LESS FAYALITE
- SOME COPPER DROPLETS HAVE COARSE BLUE DENDRITES, VERY GLOBULAR SULPHIDES OR BRONZE?

ES:

1. FAYALITE + GLASS MATRIX NEAR POINT BBD-1-1
2. BLOCKY OXIDES NEAR POINT - Fe ONLY MAGNETITE
BBD-1-2 NOT SAVED.
3. COPPER DROPLET WITH COARSE DENDRITES
 - a. - DENDRITES BBD1-3-DEND BBD1-3-DEND 2
 - b. - EUTECTIC BBD1-3-EUTECTIC
4. COPPER DROPLETS TRAPPED BETWEEN FAYALITE LATHS NEAR POINT BBD1-4-DROPLET
5. COARSE EUTECTIC - 2 PHASE NEAR CHARCOAL
 - COARSE DENDRITES BBD 1-5-DEND
 - BLUE MATRIX BBD 1-5-EUTECTIC