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Crystal Data: Orthorhombic. Point Group: $2/m \ 2/m \ 2/m$. As thin (to 50 μ m) reaction rims around chalcopyrite, and as inclusions; rarely in discrete grains.

Physical Properties: Hardness = 3-4 VHN = 250-297 D(meas.) = n.d. D(calc.) = 8.057

Cell Data: Space Group: Pnnm. a = 5.29 b = 6.27 c = 3.86 Z = 2

X-ray Powder Pattern: Robb-Montbray mine, Canada. 2.81 (100), 2.71 (70), 2.07 (50), 1.846 (40), 3.29 (30), 1.940 (30), 1.577 (30)

Chemistry:

	(1)	(2)	(3)
Fe	18.1	18.3	17.94
Te	82.7	82.5	82.06
Total	100.8	100.8	100.00

(1) Robb-Montbray mine, Canada; by electron microprobe. (2) Noranda, Canada; by electron microprobe. (3) FeTe₂.

Polymorphism & Series: Forms a series with mattagamite.

Mineral Group: Marcasite group.

Occurrence: In hydrothermal ore deposits, rimming chalcopyrite grains, and as inclusions in gold, petzite, or chalcopyrite.

Association: Chalcopyrite, altaite, gold, melonite, petzite, montbrayite, sylvanite, tellurobismuthite, pyrite, sphalerite, marcasite, chalcocite, covellite.

Distribution: In Canada, from the Robb-Montbray [TL] and Noranda mines, Quebec; and at Lindquist Lake, British Columbia. From Gold Hill, north of San Simon, Cochise Co., Arizona, USA. At Bodennec, Finistère, France. From Faţa Băii (Facebánya) and Săcărîmb (Nagyág), Romania. At Jabal Sayid, Saudi Arabia. In the Kobetsuzawa gold mine, near Sapporo, Hokkaido, Japan. From the North Kalgurli mine, Kalgoorlie, and at Kambalda, Western Australia.

Name: Honors Dr. Max Hans Frohberg (1901–1970), Canadian mining geologist, Toronto, Canada.

Type Material: Royal Ontario Museum, Toronto, Canada, M31173.

References: (1) Thompson, R.M. (1947) Frohbergite, FeTe₂: a new member of the marcasite group. Univ. Toronto Studies, Geol. Ser., 51, 35–40. (2) Thompson, R.M. (1947) Frohbergite, FeTe₂, a new member of the marcasite group (abs.). Amer. Mineral., 32, 210. (3) Pertlik, F. (1986) Strukturvergeinerung der synthetischen Verbindung FeTe₂ (Frohbergit). Anzeiger der Österreichischen Akademie der Wissenschaften, math.-naturwiss. Klasse, 123, 123–125 (in German). (4) Ramdohr, P. (1969) The ore minerals and their intergrowths, (3rd edition), 845–847. (5) Berry, L.G. and R.M. Thompson (1962) X-ray powder data for the ore minerals. Geol. Soc. Amer. Mem. 85, 103–104.