

MINERALOGICAL NOTES

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Scotlandite from Higher Roughton Gill, Caldbeck Fells, Cumbria

SCOTLANDITE (PbSO_3) was described by Paar *et al.* (1984) as pale yellow to greyish white and colourless chisel-shaped or bladed crystals from the Susanna Vein, Leadhills, Scotland. It is one of four species which have been characterized during the past decade as a result of detailed examination of old specimens from the Leadhills district. Two of these newly described species, macphersonite, and mattheddleite, have recently been reported from the Caldbeck Fells (Cooper *et al.*, 1988). This is perhaps not surprising in view of the similarities in the primary and supergene mineralogy of these areas (Gillanders, 1981; Young, 1987).

Scotlandite was found *in situ* at an exposure of the Roughton Gill (South) Vein on the eastern flank of Balliwag Rigg, Higher Roughton Gill, Caldbeck Fells, Cumbria [NY 3006 3383], and identified by X-ray powder diffraction. It occurs as subtranslucent to transparent pointed crystals which tend to form radiating clusters, and as individual chisel-shaped blades, exceptionally to 0.6 mm. The crystals are white, inclining towards grey, brown or colourless, with a distinct resinous lustre. Scotlandite occurs in cavities in highly oxidized galena, where it is commonly associated

with caledonite, lanarkite, leadhillite, and mattheddleite. A specimen has been lodged in the collection of the British Museum (Natural History).

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DAVID I. GREEN

61 Nowell Lane, Leeds, West Yorkshire LS9 6JD

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