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COVER

Luminescence petrography reveals a vein structure in carbonatite which is not revealed by ordinary petrographic techniques. The vein luminesces brilliant orange, the bladed apatite crystals light violet, and the surrounding calcite dull orange. The upper photograph shows the same area of the thin section under tungsten illumination and between crossed Nicols (width of photograph about 1 centimeter). See page 1283. [R. F. Sippel and E. D. Glover, Socony Mobil Field Research Laboratory]