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COVER  
Luminescence petrography reveals a vein structure in carbonatite which is  
not revealed by ordinary petrographic techniques. The vein luminesces brilli-  
ant 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]