

PROGRESS REPORT ON THE RESEARCH OF THE MANGANESE ORE DEPOSITS OF ROMANIA (1973—1976)

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In the last four years, mineralogical investigations were continued for the Romanian metamorphic manganese ores. A thesis already mentioned in a previous progress report [DIMITRESCU, 1971] was printed [POPA, 1971]. A second thesis [BĂLAN, 1976] was published this year. For the Iacobeni ore deposit, it describes 70 minerals, 18 of which are for the first time mentioned for the Romanian territory and 25 of which are new for Iacobeni. The most important manganese minerals are: brostenite, manganite, nsutite, cryptomelane, pyrolusite, birnessite, wad, jacobsite, pyrophanite (oxides); rhodochrosite, ponite, Ca-rhodochrosite, Mg-rhodochrosite, oligonite, kutnahorite, Mn-calcite (carbonates); tephroite, sonolite, alleghanite, spessartine, rhodonite, pyroxmangite, Mn-aegirine, Mn-aegirine-augite, dannemorite, Fe-Mn-anthophyllite, Mg-Mn-riebeckite, Mn-stilpnomelane, manganophyllite, baementite, neotocite (silicates); alabandite (sulfide); hübnerite (wolframite). Physical constants and chemical composition were determined for most of these minerals.

The parageneses indicate 10 phases of mineral formation. Transformations underwent by the protores in the oxidation zone are also discussed.

The chemical composition of some manganese minerals was determined for other ore deposits, too (Delinești, Răzoare=Macskamezö, Baia de Arieș=Offenbanya), by POPA, COCÎRĂ and DIMITRESCU. They include rhodochrosite, rhodonite, pyroxmangite, bustamite, dannemorite, spessartine and alabandite.

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Manuscript received, May 10, 1977

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