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REPORT ON SOME IRON AND NICKEL MINERALS
FROM THE SOAPSTONE DEPOSITS OF
SALINE COUNTY, ARKANSAS

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Pentlandite, the α_2 form of native iron, monoclinic pyrrhotite and pyrite have been identified by X-ray methods from the Inman, Anderson and Duke-Warner soapstone pits, Saline County, Arkansas. The phase equilibria data for the system Fe-Ni-S indicates that these minerals probably formed at moderately low temperatures, perhaps 200-250° C.

Nickelian hexahydrite of the approximate composition $(Mg_{.6}Ni_{.4})SO_{4.6}H_2O$ has been identified by optical and X-ray methods as a secondary mineral in the soapstone pits.