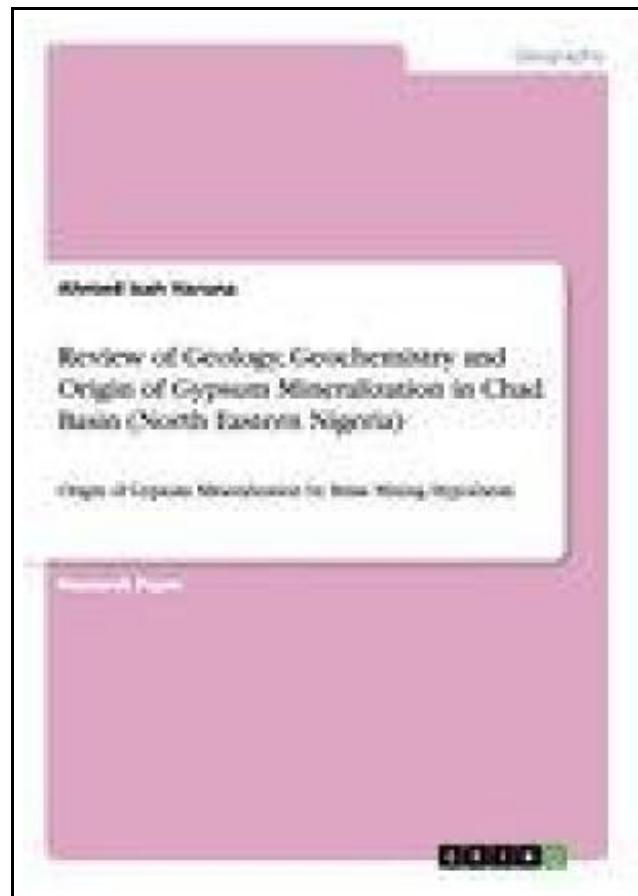


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REVIEW OF GEOLOGY, GEOCHEMISTRY AND ORIGIN OF GYPSUM MINERALIZATION IN CHAD BASIN (NORTH EASTERN NIGERIA)

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Grin Verlag GmbH Apr 2013, 2013. Taschenbuch. Book Condition: Neu. 210x148x6 mm. This item is printed on demand - Print on Demand Titel. - Research Paper from the year 1998 in the subject Geography / Earth Science - Geology, Mineralogy, Soil Science, grade: Research, Abubakar Tafawa Balewa University (Geology Programme), course: Economic Geology/ Mineral Exploration, language: English, comment: Chad Basin, Gypsum mineralization, Primary laminations, Brine mixing model, Secondary diagenetic structures, Economic potential , abstract: A field trip was conducted in order to evaluate the geology, geochemistry and origin of gypsum mineralization in the Nigerian sector of Chad Basin, part of which is the research area. The gypsum mineralization underlain the whole area of about 2247.75km² within the Chad Basin and comprises of five different forms; Detrital, Balatino Laminated, Selenite, SatinSpar, and Alabaster. The thickness of the gypsum forms increases with depth, and they are emplaced at various depths. All the gypsum forms retained traces of former lamination except detrital gypsum therefore lamination is a primary structure. The chemical composition of the gypsum forms showed that they are all high grade (over 70% CaSO₄ · 2H₂O). The moisture content could be used to show fractured areas where circulation of water is easier. Alabaster gypsum is the heaviest as such more suitable for cement works. The chemical composition of all the gypsum forms revealed high trace elements content which could be the product of the brine mixing phenomenon. The petrographic studies of the Balatino, Selenite, SatinSpar and Alabaster gypsum forms revealed that they all recrystallized from the primary laminations during the early diagenesis. The recrystallization appeared to be perpendicular to the primary laminations. There are dissemination of anhydrite in the matrix of the gypsum forms which shows the effect of incomplete rehydration after upliftment. The origin of gypsum mineralization in Chad Basin is...

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