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CORRENSITA DE BAJA CARGA EN UNA SECUENCIA CARBONÁTICA DEL CRETÁCICO INFERIOR DE LA CUENCA NEUQULNA, ARGENTINA

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ABSTRACT

Among the clay minerals neoformed during the diagenesis processes, a mixed-layer chlorite/smectite has been mentioned in calcareous shelf sequences associated to evaporitic deposits. During the study of the clay components of the Quintuco Formation, belonging to shelf facies of the Lower Cretaceous - Neocomian - of Neuquin Basin, low-charge corrensite was identified. It is a mixed-layer clay mineral trioctahedral clorite/smectite, associated to illite and clorite.

The X- ray diffraction pattem of the air-dried Sf' saturated preparation, shows a superstructure in the region of the low angles 2 θ that expands in ethylen glycol. Although several reflections are iriterfered by other discrete clay minerals, a pattern of rational diffraction is observed. Those spaced are regular from 001 until the 9th order, with a coeficient of variability of 0.47% for the EG solvate state, that qualifies the mineral as a R1 ordering. -

Proportion of components would be near to ChI50/Sm50, according to Δ2θ interval between characteristic reflections, possibly with an excess of chlorite if Newmod® is used to model it.