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Sedimentology, ichnology, and sequence stratigraphy of the Miocene Oficina Formation, Junín and Boyacá areas, Orinoco Oil Belt, Eastern Venezuela Basin

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11 **ABSTRACT**

12  
13 The Miocene Oficina Formation is widely distributed in the subsurface of the Orinoco Oil Belt  
14 of eastern Venezuela. Despite its economic importance as one of the most important hydrocarbon  
15 reservoirs worldwide, little is known about its sedimentologic, ichnologic and sequence-  
16 stratigraphic aspects. Sedimentary facies, trace fossils, depositional environments, stratal  
17 stacking patterns and surfaces of sequence-stratigraphic significance have been analyzed in the  
18 Junín and Boyacá areas. The Oficina Formation is subdivided here into three informal members:  
19 lower, middle, and upper. The lower member consists mainly of lowstand fluvial braided-  
20 channel deposits filling an incised valley. No evidence of marine conditions is present and the  
21 only biogenic structures detected are root trace fossils present at the top of a few fining- and  
22 thinning- upward channelized units. The middle member is much more heterogeneous, both  
23 vertically and laterally, comprising high-sinuosity estuarine-channel, tidal-flat, tidal-creek and

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