Introduction
This special issue provides the first comprehensive view of the Llanos basin and the adjacent hinterland of the Eastern Cordillera with the goal of explaining the existing accumulations and predicting new ones. 1401

A refined paleogeographic evolution of eastern Colombia
This study relates the retroarc foreland basin facies and geometry of the Andean retroarc region of Colombia to the history of tectonic activity in the immediate hinterland areas. This new reconstruction provides an updated deformation history tied to a more precise understanding of basin evolution. 1407

Surviving multiple erosion cycles
Palynomorphs are resistant to degradation and can be used as tracers of sedimentological changes. This data from the Llanos foothills and basin of Colombia is used to establish the intensity of Cenozoic reworking and its relationship to the tectonic evolution of the Colombian Andes. 1455

The evolution of the Llanos basin
The Llanos basin, eastern Colombia, lies between the Colombian Andes and the Guyana Precambrian Shield. A Paleozoic-Pleistocene basin evolution model of the Llanos basin is presented that shows five main stages of deformation during this span of time. 1473

Understanding the petroleum charge history
Criteria to distinguish oils and to identify alteration processes were developed from the evaluation of physical properties of samples from the Llanos basin, Colombia. It should also be possible to forecast petroleum properties in unexplored areas of the basin. 1503

A new software tool for the Llanos basin
FetKin is a new software package that is able to calculate isotherm advection in complex geological settings. It is especially suitable for areas with rapid shortening rates and jagged topography, and it can be used in complex kinematic paths for growing structures. 1537

A useful method for kinematic restorations
The capabilities of FetKin, a new model used to develop thermokinematic restorations, are demonstrated in the Colombian Eastern Cordillera. This approach shows increasing shortening rates and proves to be a useful method for creating high-resolution and high-fidelity kinematic restorations. 1575

Using surface analogs
Four widespread surface fracture systems in the Llanos foothills are studied as analogs for oil fields. Models based on present day fold geometry cannot accurately predict the observed fracture distributions and should not be used to construct discrete fracture network models. 1599
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