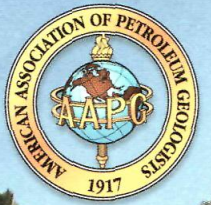


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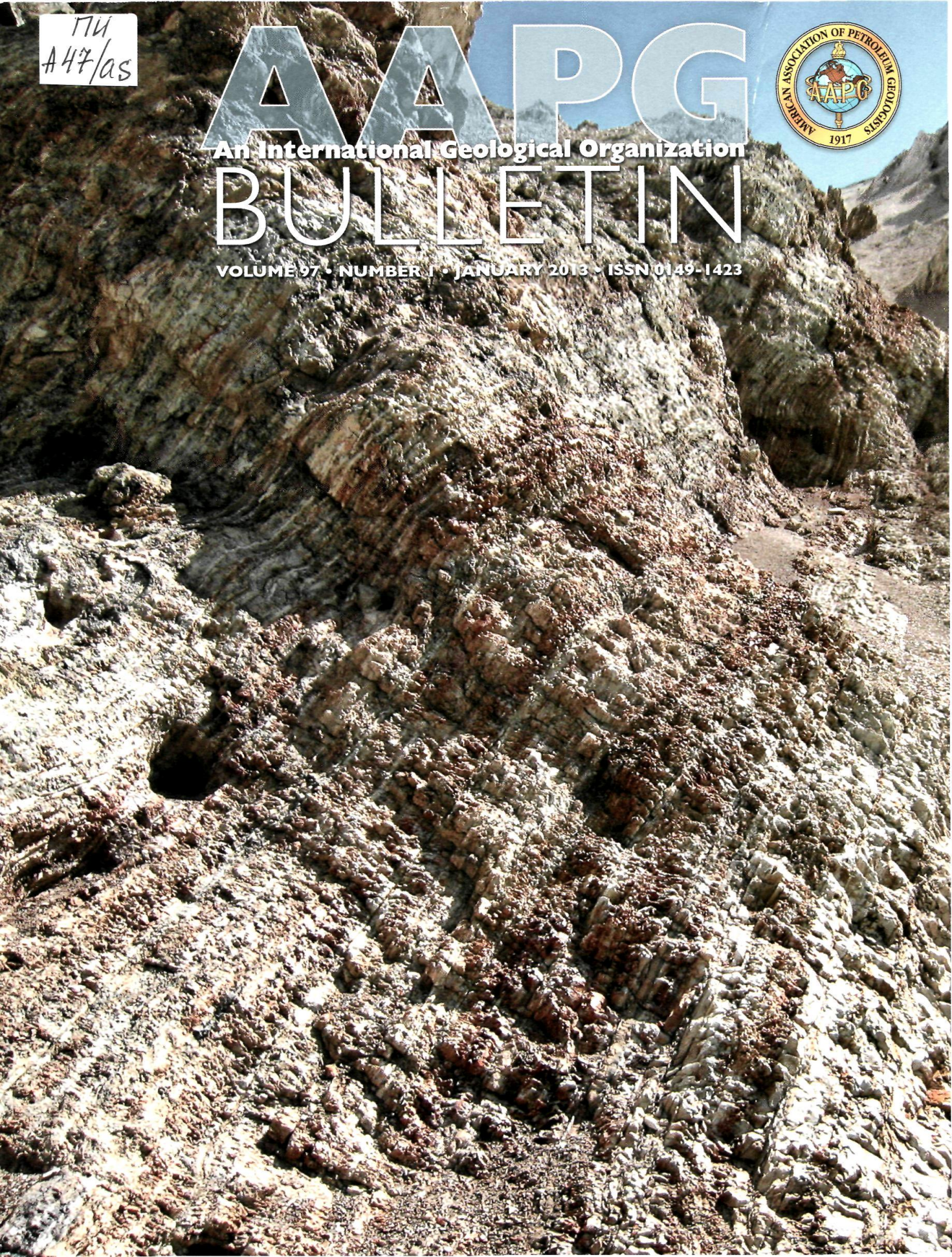
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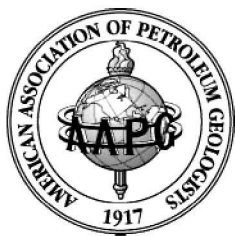


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ON COVER – Outcrop of thermally immature interbedded porcelanite and bio-siliceous shale of the Miocene Monterey Formation (Antelope shale member), Chico Martinez Creek, western San Joaquin basin (photo courtesy of R. Behl, CSULB). Equivalent rock at depth consists of thermally mature fractured chert and shale, which serve as both source and reservoir rock for petroleum in the basin. Based on the geochemical results, these rocks are inferred to provide internal seals that help to explain the common stratigraphic isolation of the different oil families described in the paper by Peters et al. in this issue of the *Bulletin*, p. 103.

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