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Biostratigraphy and petrography of upper Paleozoic rocks of Sierra Las Pintas, northern Baja California

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## ACCEPTED MANUSCRIPT

1	BIOSTRATIGRAPHY AND PETROGRAPHY OF UPPER PALEOZOIC ROCKS OF
2	SIERRA LAS PINTAS, NORTHERN BAJA CALIFORNIA
3	
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18	Abstract
19	A transported crinoid fauna is herein described for the first time in the Paleozoic succession
20	cropping out in the Sierra Las Pintas, northern Baja California, northwestern Mexico. The
21	fossil association includes Heterostelechus texanus Moore and Jeffords, Preptopremnum
22	laeve? Moore and Jeffords, and Mooreanteris perforatus Moore and Jeffords, which
23	indicates a Middle Pennsylvanian-early Permian time-averaged age. The studied area
24	corresponds with the northernmost outcrop of definitely late Paleozoic deep-water facies in
25	northwestern Mexico and the southern United States. Petrographic analyses indicate that
26	the studied metasandstones were primarily derived from high-grade metamorphic rocks and
27	from a shallow-water platform environment dominated by crinoid meadows. These results
28	allow the correlation of the studied metasedimentary rocks with the Carboniferous Rancho
29	Nuevo Formation of the Sonora allochthon, which crops out in central Sonora. The Sonora
30	allochthon includes an Early Ordovician-Late Pennsylvanian sedimentary succession that

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