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Seismic – Wireline logs sequence stratigraphic analyses and geologic evolution for the Upper Cretaceous succession of Abu Gharadig basin, Egypt

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3	of Abu Gharadig Basin, Egypt.
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9	ABSTRACT
10	The Upper Cretaceous megasequence in the northern part of the Egyptian Western Des

ert has been classified into four 2nd order depositional sequences. These sequences started with 11 the Cenomanian SQ-I topped by the Turonian - Santonian SQ-II. However, both SQ-III and 12 SQ-IV represent the Campanian- Maastrichtian time span. The interpreted 2nd order SQ-I and 13 SQ-II have been further subdivided into six smaller 3rd order sequences (SQ-1 to SQ-6). The 14 depositional history started during the Early Cenomanian times, characterized by wide marine 15 16 invasion enabled the deposition of the shallow marine Bahariya Formation (SQ-1). The Upper Cenomanian times, witnessed a rapid subsidence, simultaneously with new marine 17 18 transgressive phase. This is resulted in the deposition of SQ-2, consuming the entire 19 sediments of the Abu Roash G Member. During the Turonian – Coniacian times the northern parts of Egypt showed successive oscillating transgressive – regressive marine cycles led to 20 21 equivocal sedimentary bodies of the Turonian-Coniacian Abu Roash Formation (SQ-3, SQ-4, 22 and SQ-5). During the Santonian age, the northern parts of Egypt were subjected to tectonic crustal shortening, producing large scale folds. As a result, a new tectonically-overprinted 23 24 marine depositional cycle started and marked by rapid phase of basin subsidence. This was Download English Version:

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