

## 1 **Supplementary figure captions**

2 Supplementary Figure 1. Histograms showing the distribution of wireline gamma ray measurements  
3 throughout the Main Buntsandstein cored intervals in the Roer Valley Graben. The cut-off has been  
4 taken at the cross of the two density curves.

5 Supplementary Figure 2. Interpreted seismic profiles displaying a wider Roer Valley Graben to the  
6 how the Roer Valley Graben width changes from north (a) to south (c).

7 Supplementary Figure 3. Distribution of normal and reverse faults across the study area. Note how  
8 the reverse faults do not occur in the most southeastern part of the Roer Valley Graben.

9 Supplementary Figure 4. Main steps taken to restore transect EBN033 (see Fig. 4 for the un-  
10 interpreted and interpreted seismic line). Some of the interpreted faults in Fig.4 were removed to  
11 simplify the restoration process. Colours refer to specific stratigraphic. Horizon reconstruction is  
12 displayed in c) and e).

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