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The successful development of gas and oil resources from shales in North America

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## INVITED REVIEW PAPER

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**Keywords:** shale gas, hydraulic fracturing, unconventional resources

**Figure Captions** (figures are sent as separate files; locations are noted in the text):

Figure 1. SD Mines geological engineering PhD candidate Scyller Borglum at the Marcellus Shale type section near Marcellus, New York. Fissility and vertical fractures are visible behind her. Photo by Dan Soeder, 2016.

Figure 2. Photograph of the contact between the “black” Cleveland Shale and the underlying “gray” Chagrin Shale in a drill core from Ohio, USA. Numbers on the core are depths in feet. Photo by Dan Soeder, 1981.

Figure 3. The resource triangle illustrating the distribution of most natural resources, including hydrocarbons, when quantity is plotted against quality (modified from Soeder, 2012).

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