

Interactive comment on “Seismic imaging in the eastern Scandinavian Caledonides: siting the 2.5 km deep COSC-2 borehole, central Sweden” by C. Juhlin et al.

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This paper presents beautiful seismic sections detailing the thrust stack west of the Caledonian thrust front. The interpretations are well supported by auxillary geological, drillhole and magnetotelluric data. The proposed drillhole locations each provide opportunities for confirming certain elements of the seismic interpretations and discriminating between the alternative interpretations that are presented. The demonstrated shallow inclination of the geology in the area validates the geometry of the reflectors as observed on the seismic sections and may allow drilling with some confidence in the absence of 3D seismic data from the proposed drill sites. However, acquisition of 3D data in advance of drilling would still be prudent. Furthermore, it will help in correlating

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the reflections to drillhole geology particularly if the eventual drill hole is offset from the 2D seismic profiles.

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