

Interactive comment on “Sparse 3D reflection seismic survey for deep-targeting iron-oxide deposits and their host rocks, Ludvika Mines-Sweden” by Alireza Malehmir et al.

Anonymous Referee #3

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This paper is reporting the results of a new (non-conventional) 3D seismic data acquisition, performed for mining exploration in Sweden. The authors well show how the combination of a careful and customized survey planning and optimized processing allow to achieve better results in comparison to a standard 2D survey, with reasonable costs. The manuscript represents a good contribute for the scientific progress in mining exploration, currently a very “hot” topic, presenting this case history as a reference example for extending this approach to other cases. This paper fits the scope of SE. It is complete, well-structured and well written, even if I’ve found a bit difficult to follow the interpretation details on the figures. Therefore, some updates on the figures are required. This manuscript can be accepted for publication after a minor

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revision. Comments are attached in the pdf file.

Please also note the supplement to this comment:
<https://se.copernicus.org/preprints/se-2020-141/se-2020-141-RC3-supplement.zip>

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2020-141>, 2020.

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