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Comment

## ***Interactive comment on “Recognition of a porphyry system using ASTER data in Bideghan – Qom province (central of Iran)” by F. Feizi and E. Mansouri***

### **Anonymous Referee #1**

Received and published: 30 July 2014

The work presented in this paper may have use in the mining industry. However, the quality is below the standard to be published as scientific work. There are several reasons but the main involves the absence of model and product accuracies. The paper is poorly organized; the methods and results are presented in the result section; the methods are poorly described; there is a lack of referencing. The English is below level and needs to be improved. The work is not novel, since the standard ENVI tools were used to handle the satellite data. Hence, others have performed better research considering the use of ASTER satellite data. Preprocessing of ASTER data is known to be difficult and I miss a detailed overview on the preprocessing that was done. The interpretation of the PCA is not complete. The interpretation of the produced maps is

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not reproducible and lacks a proper validation. Visiting sites which appear to match is not sufficient for the validation of a map, I would be interested in how many places were inaccurately mapped. This type of validation would require a specific sampling scheme which is currently not included in the work. I strongly suggest rejecting this paper.

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Interactive comment on Solid Earth Discuss., 6, 1765, 2014.

**SED**

6, C739–C740, 2014

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