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**Brief commentary on the document “Trefil Quarry – Photographed dolines”**

1. A line is shown as the “Approx

6. D2 is clearly a caprock doline and the air photo shows larger features to the northwest.
7. D3 was visited and photographed by JG. It is 3-5m deep and has extensive sandstone scree. The rushes show a line of drainage indicating that there is point recharge and a high probability of conduits beneath the doline.
8. D4 was also visited and photographed by JG. It has a well-defined sink point and is probably a focus for conduit flow to the south.
9. Doline D5 has a fresh rock-face providing evidence of ongoing evolution.
10. With respect to the photograph of an area with “no obvious dolines” it should be noted (a) that dolines are commonly not obvious on low angle surface photographs; (b) even if no dolines are present at surface this does not preclude sub-surface processes operating with potential for doline formation in the future and (c) in what I consider to be the unlikely possibility that there are no features of interstratal karst interest in this area, it would be necessary to destroy a zone containing significant features in order for quarrying to take place within it.

Professor John Gunn, 19<sup>th</sup> July 2012