

ART. VII.—*On the Brilliant Aurora of the 5th April, 1870.*

By R. L. J. ELLERY, ESQ.

[Read 11th April, 1870.]

ART. VIII.—*Notes on the occurrence of Enhydros or Water Stones at Beechworth.* BY E. J. DUNN, ESQ.

[Read by G. H. F. ULRICH, ESQ., on 11th April, 1870.]

The locality in which the *enhydros* occur, is on Spring Creek, on the south side and close to the town of Beechworth.

The rock is fine grained granite, with a small outlier of silurian; this was originally covered by 10 or 12 feet of drift, but in the course of mining operations the rock was laid bare.

A miner who worked this portion of the creek 10 years since informed me that he had observed large numbers of *enhydros* in clearing the bottom of the claim, and showed me some he had saved; after his party had ceased working, another started, and cut a tail race through the granite, the more effectually to drain and work the ground in the bed of the creek. It was in the cutting of this tail race that they were again brought to light in June 1864.

A tunnel has recently been driven in the line of section *A B* on tracing, about 18 feet below the surface of the rock, giving an excellent opportunity for observation, and it is quite obvious from what the tunnel and cutting have laid open, that this has been in the line of great dislocating forces of which the dyke marked on the tracing was most probably the centre.

This dyke is of singular formation. It is composed of fragments of granite and occasional pieces of sandstone cemented by crystallised quartz, and there are also large masses of coarse chalcedony. The whole appearance of this dyke suggests the idea of a chasm filled with small loose fragments of rock into which a siliceous solution had penetrated, coating each piece with quartz and gradually cementing them into a solid mass.

The silurian outlier is a yellowish brown and bluish grey sandstone, soft near the surface, but very hard near the granite, and full of joints. It is intersected by numerous blue quartz veins and straight veins of chalcedony scales with clay.



Ellery, R. L. J. 1874. "On a brilliant aurora of the 5th April 1870." *Transactions and Proceedings of the Royal Society of Victoria* 10, 32–32.

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