

Mr. A. Trevelyan Lee (2 DJ) experimented recently with Mr. S. Grimwood Taylor (2 IX)_at the Denby Colliery, near Derby. Tests were made early in October. A temporary single wire aerial was erected at the top of two ladders, with a bare copper wire lying on the ground for an earth. One set was placed in a tub, lined with boards, and sent down the shaft. The aerial down below was suspended from the roof with string. Communication was immediately established with the station at the colliery office on top, speech and gramophone music coming through loudly and distinctly. This station was about 100 yards from the foot of the shaft. The tub was then pushed along the rails for about a mile, and communication was again easily established, but the signals from below were less clear. Mr. Lee said he understood that the strata above the coal consisted of iron deposits in nodule form.

The power employed did not exceed 5 watts, and was derived from one of Newton's Bros. generators, working off a 12-volt accumulator. One of the sets used choke control and the other grid control. Three valves were used for reception, one being the resistance-capacity coupling (long wave type) and the other tuned choke and L.F. The wavelength was 440 metres. During discussion at the Derby Wireless Club it was suggested that a much longer wave might be found more satisfactory, and it was understood that this had been found to be so in submarine work. «

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