

LEASE 10393E.

This 64 acre leasehold, charted in the name of J.S. Goodall, lies on the west side of Story Creek about three miles south of the settlement of that name. The discovery of a very rich pocket of tin ore by Goodall led to surface prospecting which disclosed "strike" ore-bodies in the Cambro-Ordovician quartzite and tuffs.

The rich body referred to consists of almost pure blocks of tin ore between tilted beds of quartzite. It is at this spot a complete replacement of the narrow tuff member of the rock formation. A little to the south and north the tuff appears unaffected by mineralisers, but further on partial replacement of that rock may be seen. In addition to that replacement body the fractured quartzite wall-rocks are filled with veinlets of quartz and cassiterite, the shoots being short and irregular. Associated minerals are arsenopyrite and chalcopyrite.

Parallel to this body, which courses 328° , are others of similar nature and character.

A number of trenches across the mainbody and a shaft on the rich "make" show tin ore at those points. At a depth of 12 feet the rich pocket of tin ore opened in the shaft cut out leaving only thin veinlets of quartz to mark the lines of entry of the mineralising solutions.

The results of the prospecting work thus performed may be expressed as follows :-

1. The ore bodies as a whole are of low average grade, but they contain occasional small bonanzas.
2. The ore-bodies are in part replacements of tuff and in part the infillings of joints and fractures in quartzite.
3. The ore-bodies, although persistent along their strike are irregular along their dip, and vary in width from two to eight feet.
4. The value of the ore in this flat country can be determined only by close drilling or by shaft sinking. The question arises: "are they worthy of such attention?"

is recommended in answer that closer and deeper trenching be performed before consideration be given to drilling.

LEASE 10345M.

This 40 acre leasehold, charted in the names of E. Phillips, W. Flaherty, P. Flaherty and M.A. Flaherty, lies north west and adjoining that just described. It lies, moreover, on the same line of ore-body, which passes from the south-east corner through the section.

The ore-body in this leasehold has been trenched at short intervals over a distance of fifteen chains. At each of these openings it carries tin ore, in some places much more than in others, but as a whole the grade is low like that of the adjoining property.

A feature of these large irregular bodies is the coarsely crystalline condition of the tin ore. Its separation from the gangue and containing rock and its concentration, therefore, can be accomplished without preliminary comminution.

The remarks given in the foregoing report respecting the work of exploration may be applied also to this body.