

CYGNET GOLD MINE, CYGNET.PRELIMINARY REPORT.

The workings on this area consist of a main shaft 210 feet deep and a number of small shafts sunk at various points a little to the N of the latter. Most of the small shafts are inaccessible having either caved in at the surface or partly filled with water. No. 1 prospecting shaft could not be examined owing to foul air.

In addition to shafts there are a number of small pits and some trenching on the area.

The country rocks consist of Permo-Carboniferous mudstones and shales intersected by numerous porphyry dykes. A good deal of mineralisation by iron pyrites occurs in both series of rocks in the form of disseminated grains.

In the area examined occur a number of ferruginous quartz veins. These range in thickness from a few inches to several feet. In some instances they are gold bearing in payable quantity but the distribution of this metal is proved to be very erratic.

The numerous small shafts sunk on the area have apparently been commenced on more or less promising veins of gold bearing material and the conclusions as a result of the work is that the values were not encouraging or the reef did not continue.

The efforts of the Company in attempting to locate a payable reef have so far been unsuccessful.

Recently a main shaft equipped with a steam hoisting winch was sunk to a depth of 210 feet and from that level a drive was extended easterly for a distance exceeding 150 feet. In carrying out this work nothing in the form of definite reef was cut.

When sinking the shaft it is stated that a vein 6 inches thick samples of which assayed up to 5 oz. of gold per ton was passed through dipping northerly. No attempt was then or has since been made to explore this vein at a lower depth. The work carried out in driving from the main shaft has been of no value in testing the ground below the numerous shallow workings to the N. In order to do this a cross cut from the eastern drive of the Main shaft should be driven northerly to explore the ground in that direction. This work would give definite information of the character of the reefs to a depth hitherto not reached in the area.

From the relative positions of the lower workings in No. 1 prospecting shaft and the eastern drive from the main shaft the drive is too far south to reach the lode in the former.

Seeing that a rich vein was cut when sinking the main shaft some developmental work to cut it at a lower depth should be undertaken.

A good deal of capital has been spent in sinking and equipping the main shaft, this work offers every facility for

a further comparatively small expenditure of proving definitely the prospects of the area. So far the work from the Main shaft in achieving that object is of a negative character.

Some section of the ground exposed in the cross cut from the main shaft is very favourable for driving and any exploratory work undertaken could be carried out in these.

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