

The area examined comprises that portion of Meadowbanks estate known as Flagstaff Run, and is situated on the north side of Russell Falls River, midway between Glenora and Westerway, on 500 acres of land granted to Michael Fenton.

Access is gained by means of the road from Westerway to Ellendale to a point $\frac{1}{2}$ a mile north of Russell Falls River. From there a cart track deviates easterly and traverses the area described.

The property has a frontage along the wide alluvial flats of the river from the northern edge of which the country rises sharply in cliff faces to approximately 100 feet in height. From the top of the cliffs the land continues to rise less steeply for about 200 feet to the hill top in the north of the block.

Almost the whole of the area examined is occupied by rocks of the Permo-Carboniferous system. These rocks consist of fine grained siliceous sandstone with occasional bands of conglomerate in nearly horizontal beds. The conglomerates vary in texture from fine to coarse grained within the same bed. The fine grained types consist of small pieces of quartz set in a cherty matrix while the coarse conglomerate is chiefly made up of water worn quartz pebbles cemented by silica. Some of the pebbles from the conglomerates consist of pieces of slate, schist and gneiss. The finding of these pebbles had led the owner of the property to believe that rocks of the lower Palaeozoic system existed in the area and that therefore, conditions would be suitable for prospecting for minerals. This belief was incorrect since the pebbles have now been proved to belong to the conglomerate beds of the post-mineralization Permo-Carboniferous period.

Overlying this series, near the top of the hill, are beds of coarse grained siliceous sandstones and quartz grits very similar in appearance to the basal members of the Triassic system so persistent throughout Tasmania.

If the grits in this district represent those basal members then the underlying Permo-Carboniferous rocks would most likely correspond with the Tomago series in which coal occurs in some parts of the island. However, no coal outcrops have been found in this vicinity and even if the Tomago series was present it does not follow that workable seams would be present. In Southern Tasmania these series are not well developed and coal seams are known only at Mt. Cygnet and Bruny Island where they are thin and unprofitable to work.

In view of the above, boring or other work connected with the search for coal cannot be recommended.

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21-12-34