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3rd October, 1949.

MEMORANDUM:Proposed Dam Site for Kingborough Council.

The site for the proposed dam is situated five chains west of Proctors Road some four miles from Hobart. It is proposed to build the dam wall across the gully which leads down from the Ridgeway Reservoir.

The rock types outcropping in the immediate vicinity of the dam wall are Jurassic dolerite and Permian mudstone. The dolerite has intruded the mudstone in the form of a sill and is not in faulted relationship to it. The top of the dolerite sill is 68 feet above the creek bed at the location of the proposed wall. As it is suggested that this wall is to be between fifty and sixty feet in height it should be wholly contained within the dolerite. This latter rock is the typical Tasmanian dolerite of medium grain except in the vicinity of the mudstone contact where the chilled margin is very fine grained. Normal joint planes are apparent in three directions and these have vertical dips.

Some six chains further up the creek the mudstone and dolerite are apparently in faulted relation but this possible fault is not close enough to the dam wall to affect its foundation. A rough sketch map is appended to illustrate these relationships.

From a geological point of view the proposed site appears to be quite suitable for the construction of a dam wall.

T.D. Hughes.
GEOLOGIST.

The Director of Mines,
HOBART. Tasmania.