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**MICROFILMED**

TASMANIA GOLD MINE

BEACONSFIELD

PLACER EXPLORATION LIMITED

**MICROFILMED**

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PLACER EXPLORATION LIMITED

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INTER-OFFICE MEMORANDUM

File K55 - 4

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10th May 19 73

TO: R. COX  
FROM: T. R. O'DEA  
SUBJECT: TASMANIA - GOLD MINE - BEACONSFIELD

Introduction

A brief evaluation of the Tasmania Gold Mine was made to try to determine the possible ore reserves. The mine had been worked from 1877 to 1914 and in that time 1,067,556 tons of ore were mined for the recovery of 854,600 ounces of gold, that is, an average grade of 16.01 dwts per ton. Mining ceased on the 1500' level due to a combination of factors including fall in grade, excessive water intake and economics associated with depth.

The Tasmanian Mines Department diamond drilled the mine from 1964 to 1967 and obtained 3 intersections between 210' and 290' below the lowest workings. These intersections were of high grade.

Mineralization

The lode is a fissure reef striking about N50° E with quartz emplaced in a pre-existent fault zone with a dip of 50° - 60° to the S.E. The main reef has an overall length of 1300', though it was stoped for only 940 feet on the 1500' level. The main reef varies in thickness from a few inches up to 25 feet with an overall stoping average of about 8 feet. From the surface to 400 feet the lode averaged 25 dwts of gold to the ton and was free-milling. The grade decreased with depth till it was 2½ dwts to the ton on the 1370 foot level, but then increased to 13 dwts to the ton on the 1500 foot level. The gold is associated with minor pyrite, chalcopryite, sphalerite and galena. The mineralization is restricted to a zone bounded on the west by a fault and on the east by a change in country rock which causes the reef to feather out. The only possible extensions are therefore down dip.

A longitudinal section of the mine from the 715 foot level downwards showing assays and lode widths was contoured on a foot-dwt value. This indicated that shoots of ore occurred in the reef and that they pitched steeply to the south west, more or less across the pitch of the reef itself. There seems to be a correlation between the reef thickness and the foot-dwt contours.

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R. COX

10th May 1973

Inferred Ore

From the persistent structure of the reef and the data obtained from the Mines Department drilling it seems reasonable to assume that it will go to at least a depth of 2000 feet. This would give a tonnage of approximately 360,000 tons. It is hard to estimate what the grade would be but from the foot-dwt contour plan it seems that a shoot is developing through the Mines Department drill intersections and that an average grade of about 8 dwts could be expected. This could mean that at the current price of gold (approx. A\$64 per ounce) that there is about A\$9.2 m. worth of gold remaining in the mine.

To mine this ore it would be necessary to sink a shaft to at least 2000 feet. This would cost in the vicinity of \$3m. Add to this running costs of approximately \$10 per ton and milling costs of \$3 per ton for 360,000 tons (for a total of \$4.7 m. treatment costs) and expenditure is up to \$7.7 m. Capital costs for the complete mill and the mining equipment would bring the total over the estimated value of the ore in the ground.

Conclusions

Under these circumstances it is obvious that reopening the Tasmania Mine would not be a viable proposition. To upgrade the category of the ore reserves and to find further ore a great deal of diamond drilling would have to be undertaken and because of the limitations imposed by the proximity of the town of Beaconsfield, only a couple of drill sites would be available. The drilling would have to be carefully controlled to get to its target depth of between 2000 feet and 2500 feet, and this could be a rather expensive and time consuming task.

At the present I therefore recommend that no further work be done on this prospect.

*L. Deery*  
T. R. O'DEA - 9/5/73

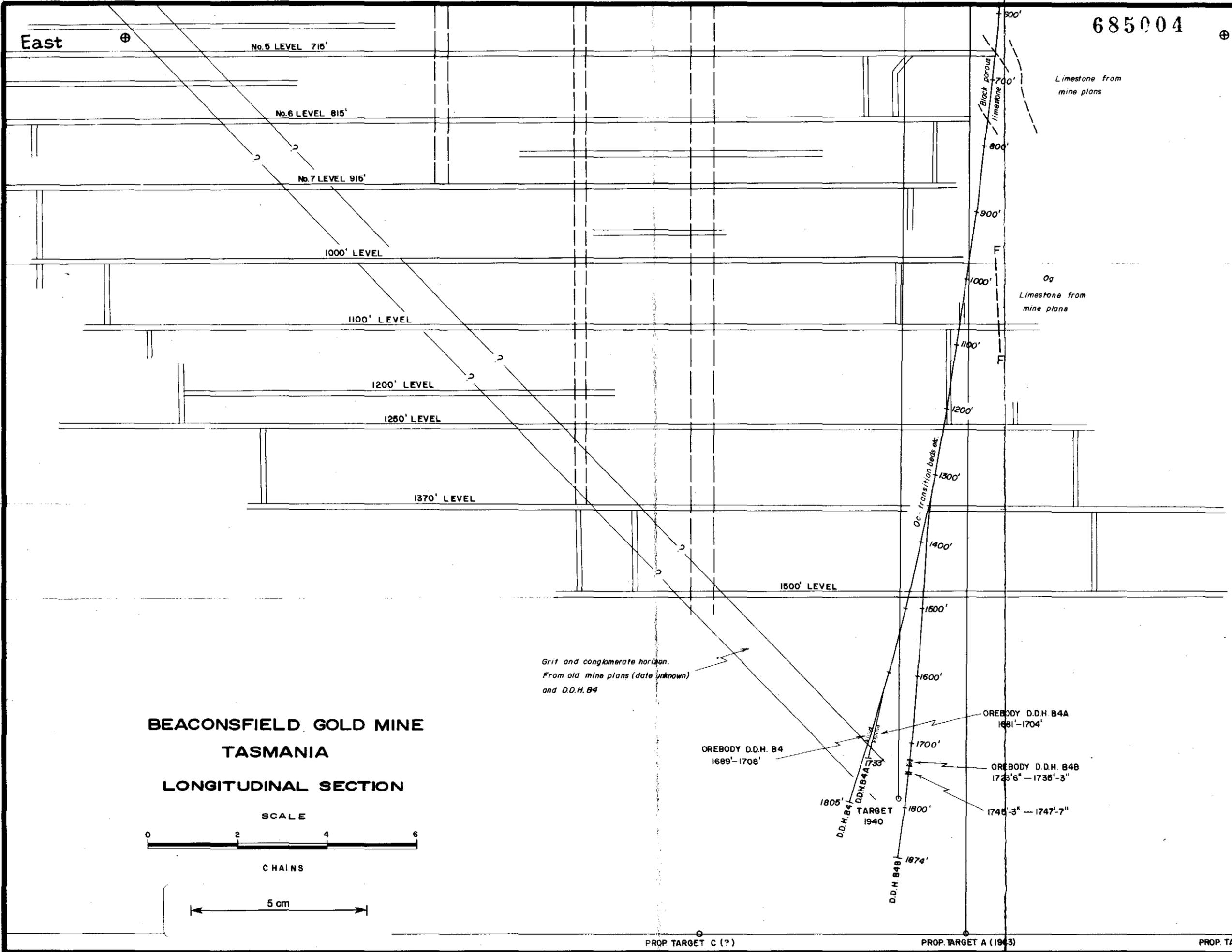
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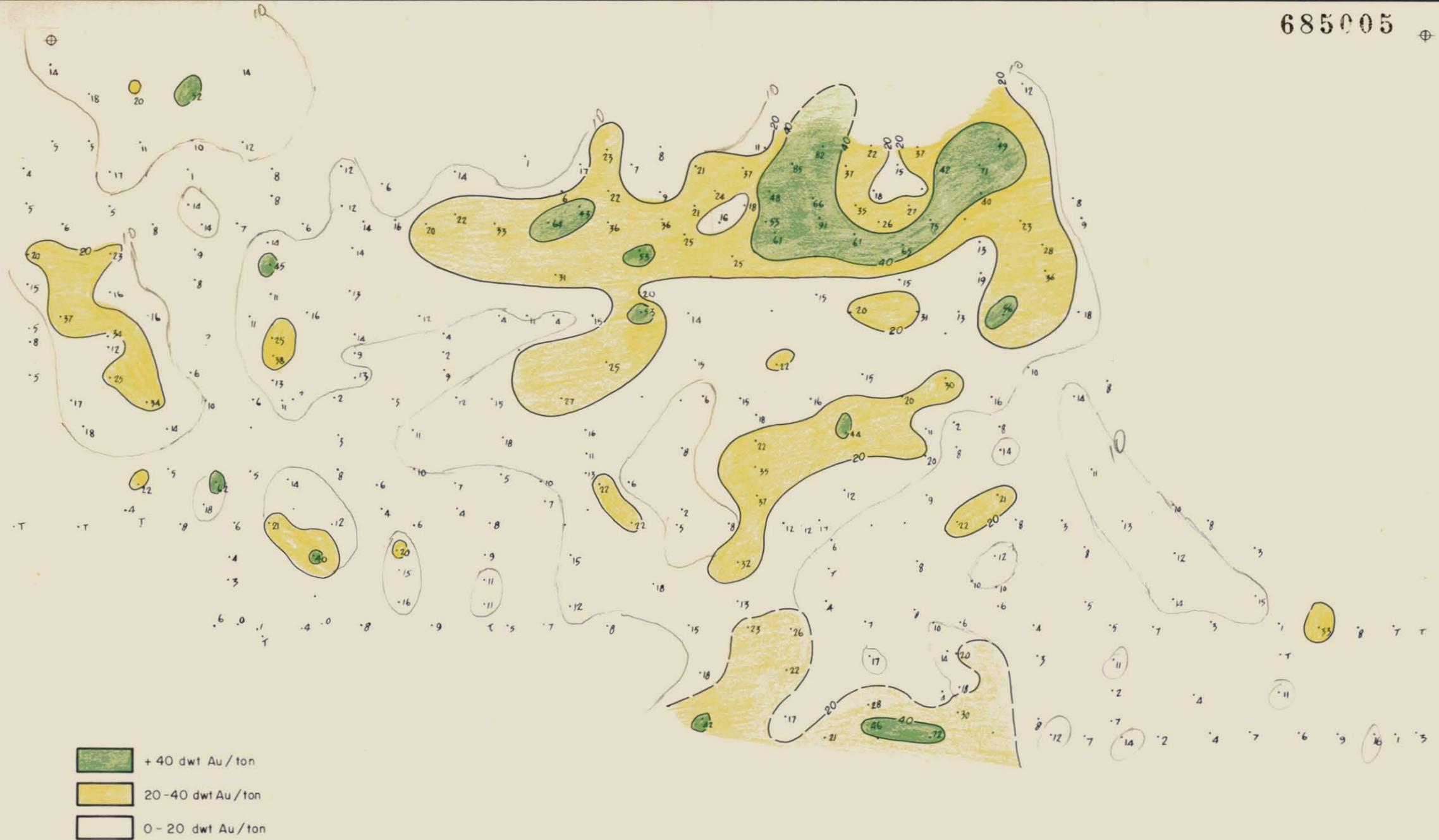
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**BEACONSFIELD GOLD MINE  
TASMANIA**

**LONGITUDINAL PROJECTION  
SHOWING METAL GRADE, DWT AU/TON**

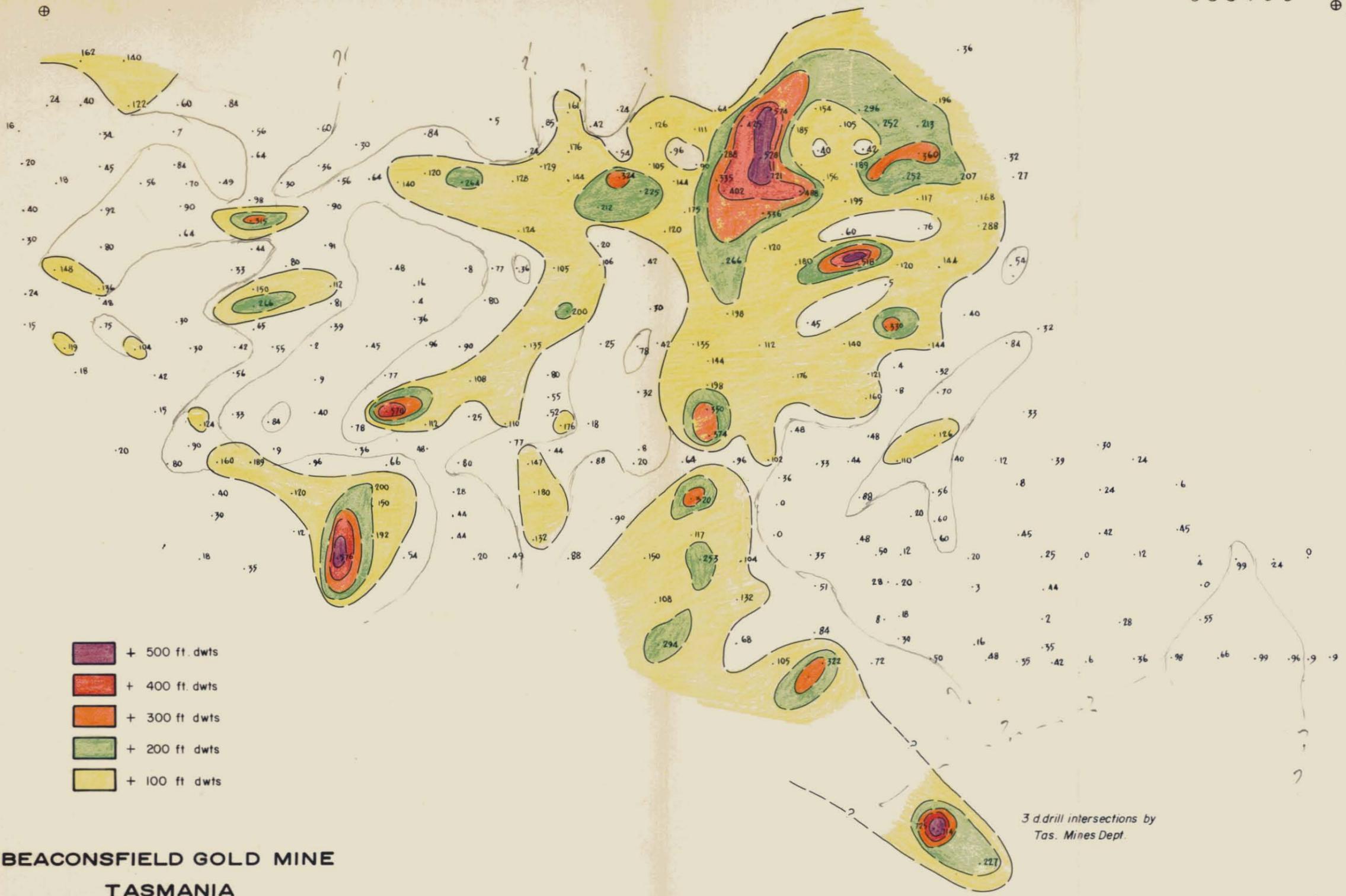


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**BEACONSFIELD GOLD MINE**  
**TASMANIA**  
**LONGITUDINAL PROJECTION**  
**SHOWING METAL VALUE, FT DWT AU/TON**



3 d drill intersections by  
 Tas. Mines Dept.