

FINAL REPORT ON
PROPOSED DRILLING AT THE SPRAY MINE
ZEEHAN

The general features of the Main Spray lode and the ore shoots in it have been described in the preliminary report.

Large scale plans of the mine workings below the No. 1 level cannot be obtained in the Department or elsewhere. I have therefore, had to rely on a tracing drawn to a scale of 1 inch = 2 chains which is rather a small scale. A large scale (1 inch = 30 feet) longitudinal section was, however, available so that depths of levels Nos. 1 to 6 were accurately obtained.

The southern shoot appears to have a southerly pitch and in consultation with the Zeehan Advisory Committee, it was deemed advisable to attempt to intersect the lode at a point 250 feet south along the lode from the "A" tunnel or adit level.

A cross-section is being constructed across the lode in a vertical plane through this point. Such section shows that from the "D" tunnel to the "A" tunnel, the lode had a high easterly dip, which became vertical at the No. 1 level, and then altered to a high westerly dip at greater depths. Between the Nos. 2 and 5 levels this dip was apparently uniform, but between Nos. 5 and 6 level it became steeper. It will be necessary to assume that a similar dip exists down to a depth of 250 feet below No. 6 level, at which depth (700 feet below "A" tunnel) it is suggested that the lode be intersected. The above dips would indicate that the lode will be intersected at a point 84 feet west of the south drive from the "A" tunnel.

The site for the bore-hole will be approximately 40 feet east of the entrance of "A" tunnel where a level excavated site exists.

From the plan it will be seen that the direction of the bore-hole will make an angle of 23 degrees with that of "A" tunnel. The bearing of the tunnel should, therefore, be observed and 23 degrees deducted from it for the direction of the bore-hole (thus the tunnel is shown to have a bearing of 247 degrees so that the bore-hole will have a bearing of 224 degrees).

By measurement from the plan and calculations the following particulars of the hole are obtained.

ANGLE OF DEPRESSION OF HOLE

$$\tan. (\text{angle}) = \frac{700}{664} = 1.05 \therefore \text{Angle} = 46^{\circ} 24'$$

LENGTH OF HOLE

$$\begin{aligned} \text{Length} &= 664 \sec. 46^{\circ} 24' \\ &= 664 \times 1.45 \\ &= 963 \text{ feet approx.} \end{aligned}$$

(Signed)
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