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30th April, 1957

MEMORANDUMDRILLING AT ZEEHAN
R.B. HILL'S LEASE

EXT Mintung diamond bits Nos.

1741	-	Drilled	105 feet
1742	-	Drilled	71 feet

EXT Handset double tube Reamer Shell
8 diamonds (4 broken)

Probably used for 200 feet or more.

Mintung EXT Bit 1741

Driller reports drilling in soft non-coring rock with quartz stringers.

Mintung EXT Bit 1742

Driller reports drilling in broken quartzite.

Observation

Any type of rock that is not coring well has a tendency to wear the metal away from the bit, reamer shell and core barrel.

Broken quartz in soft ground is one of the worst types of ground for damaging diamond bits.

Suggested Remedy

The exclusive use of carbide tungsten tipped bits in the rock that doesn't core till the ground is too hard for this type of bit.

In these circumstances the strata should have reached a stage to be more favourable for economic application of diamond bits.

The AX carbide tungsten bit in stock should be sent to the driller at Zeehan and at least two EX carbide tungsten soft rock core bits ordered from Mindrill.

Conclusion

Soft rock core bits do not cut as good core as diamond bits, but it is far better to destroy the carbide tungsten bit advancing in soft ground than ruin diamond bits, if core is not being recovered with either type of bit.


(L.L. Evans)DRILLING SUPERINTENDENTThe Director of Mines,
HOBART.