

**INCO LIMITED UPPER BLIND SLOT RAISE
8M (25') TO 12M (40')
LONGHOLE CARBIDE DRILLING (L.C.D.) METHOD**

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ABSTRACT

This paper outlines the design and implementation of a method to use Long hole Carbide drilling to blast an "Upper Blind Slot Raise" in the range of 12m (40 ft).

Three test raises under varying conditions are described:

Raise #1 - Garson Mine in a crown pillar at a depth from surface of 26m (85') was only partially successful pulling 6.7m (22').

Raise #2 - Garson Mine - immediately adjacent to raise #1 was considered successful pulling 11m (36').

Raise #3 - Levack Mine - at the 1150 level and under quite different structural and geological conditions from those at the Garson Mine was considered successful pulling 11.7m (38.5').

The results of these tests indicate that the development and design for blasting 12.2m (40') or longer raises were successful but accuracy of drill hole location, proper loading equipment and removal of mesh screen at the drift level is necessary.