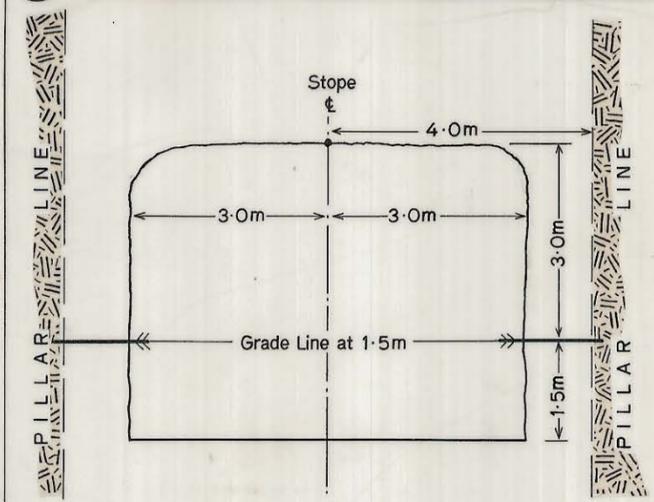


DOLPHIN MINE - STANDARD PROCEDURE

STOPE DRILLING

1 INITIAL - STOPE UNDERCUT HEADING



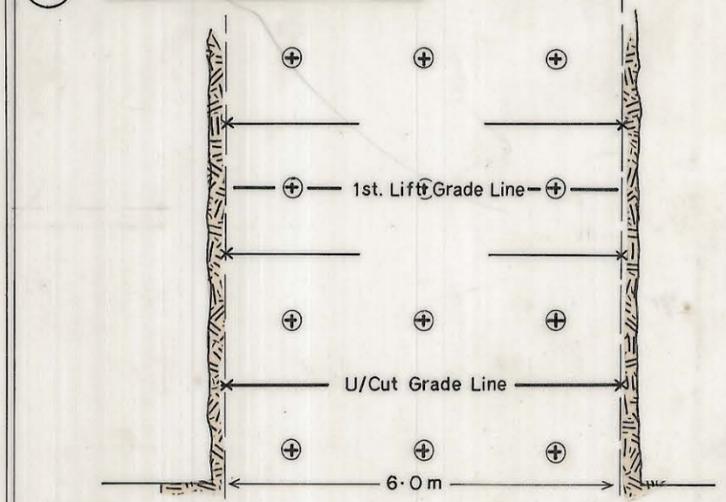
NOTES

- (a) Drive to be along ϵ of Stope
- Initial Dimensions 6.0m wide and 4.5m high
- (b) Lifters to be Collared 1.5m below Survey Grade Line
- to be drilled as flat as practicable
- (c) 'Back' holes to be closely spaced ie. 0.4m apart,
and every hole charged - with Exactex

NB

- (d) 1/2 SEC DELAY DETONATORS ARE TO BE USED FOR U/CUT HEADINGS
BACK HOLES TO BE FIRED ON SAME [LAST] DELAY NUMBER
DO NOT OVERCHARGE - PARTICULARLY WITH EASERS
- (e) POOR ALIGNMENT OF INITIAL DRIVAGE RESULTS IN 'AWKWARD'
STRIPPING WIDTHS LATER, SO PRECISION IN DRILLING ALIGNMENT
IS ESSENTIAL - USE TAMPING STICKS, SPARE RODS TO LINE UP HOLES

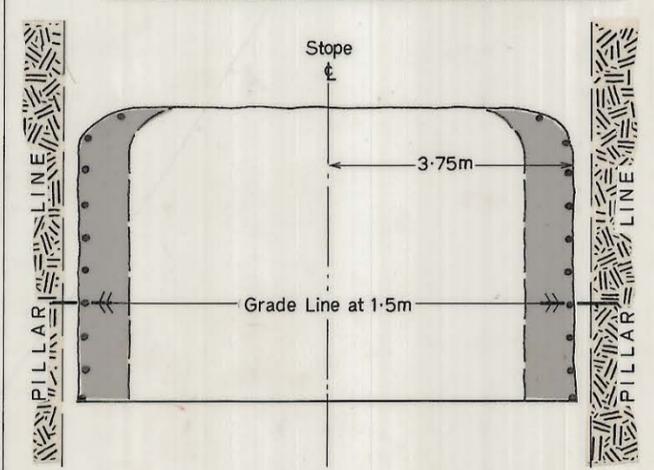
4 PILLAR STITCHING



NOTES

- (a) Pillar Stitching holes are to be drilled 2.2m deep using
38mm (1 1/2 inch) bits. (ie. either Jumbo with ropethread
rods & bits, or airleg machine with steel.)
- (b) Regular pattern drilling is 3 holes per row x 2.0m intervals,
as shown. Such holes are to be kept up to faces as
exposed to final limits
- (c) Supplementary stitching will be marked for hand drilling as
required.

2 STOPE UNDERCUT STRIPPING TO FINAL DIMENSIONS



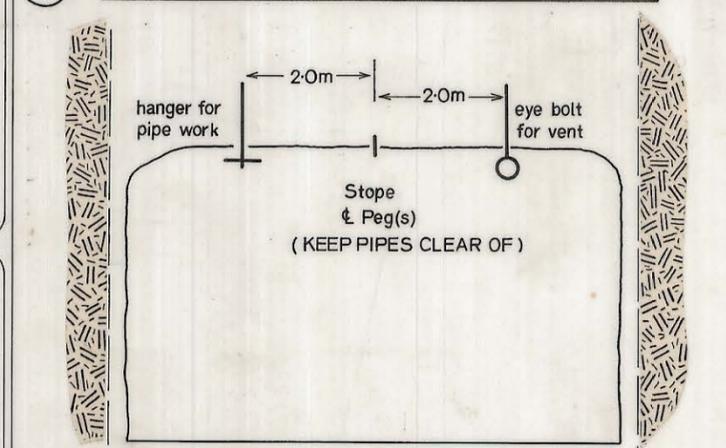
NOTES

- (a) Need for "inner" row of stripping holes dependent on
extent of Underbreak in initial drive.
- (b) Final (Pillar-line) row of holes to be close-spaced (0.5m apart) for
use with Exactex. Regular alignment is essential, with collar
positions 0.25m off Pillar-Line and holes looking out not more than 5°
- (c) Walls should be vertical to 3.5m high and arching introduced
only in the last 1.0m
- (d) Milli-sec detonators are to be used and the pillar line should
be of the same series number - top to bottom

NB

PRECISION IN PILLAR-LINE MARKING UP, DRILLING AND BLASTING
IS ESSENTIAL FOR MAINTENANCE OF BEST POSSIBLE PILLARS.

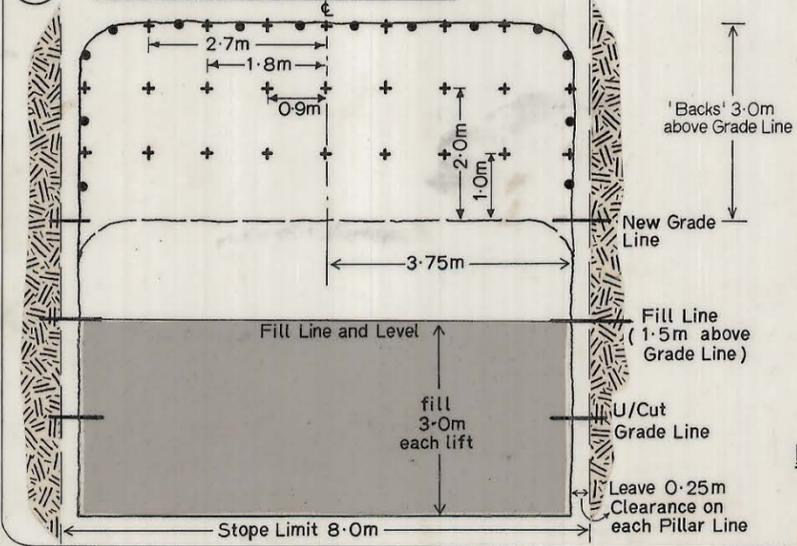
5 SERVICE PIN HOLES FOR STOPES



NOTES

- (a) Pinholes for services to be drilled as shown with every
round taken.
- (b) Holes drilled with 45 mm (1 3/4 inch) bits
- mark +
- (c) Holes drilled with 38mm (1 1/2 inch) bits
- mark ⊕

3 BACK STOPING STAGE



NOTES

- (a) Back Stopping lifts to be taken 3.0m above grade line,
and mined at a single pass of full width - 7.5m wide
- (b) Pillar rows of holes to be close spaced (0.5m) and
charged with Exactex
- (c) Milli-sec delays only, are to be used for firing of back stopes,
and perimeter holes to have the same delay number
- (d) Hole spacing for face pattern is to be :-
Rows I - Vertical interval of 1.0m
II - Horizontal spacing 0.9m
ie - Top Row 7 pattern hole & 8 at 1/2 spacing
2nd & 3rd 9 pattern holes
plus pillar lines 6 extra at 1/2 spacing
Total holes per face - 39

NB

THE EXTRA HOLES ARE NEEDED TO GET FACE BREAKING AS
CLOSE TO DESIGN AS POSSIBLE