

File
Eng 10

MEMORANDUM

000911

TO: W. Krats FROM: P. M. Pettigrew
SUBJECT: PROBLEMS ASSOCIATED WITH DATE: March 1, 1973
INTERPRETATION OF ZONES 1-3

During the recent review of drill hole data for preparation of bench plans in Zones 1 to 3 inclusive, the following problems were encountered.

(i) Drill holes not located at their theoretical position, viz., the points of intersection of the presently defined (200.√2/2 ft. x 200.√2/2 ft.) cross-sectional grid. In preparing the cross-sections, holes located within 50 feet of a cross-section plane were projected *Horizontally* → vertically onto the plane without any allowance for apparent dip of the rock/ore units or of the surface.

At the bench plan stage, it was assumed that the cross-sections were, in fact, two dimensional planar representations of three dimensional hole-to-hole "mini-sections." The half- and full-bench traces were projected onto lines drawn from hole-to-hole to correct for this initial distortion.

Isolated cases of this occurred in Zone 1, whereas there were considerable numbers of these in Zone 3 brought about partly by the shift in the cross-sectional grid in the latter zone (see Memo dated February 22, 1972).

Zone 2 is a special case in which holes more than 20 feet off-section can produce gross distortions. Some work has been done by the writer on overcoming these distortions and further work will be done on completion of the 1973 drilling programme.

(ii) Unreliable assay data resulting from unsatisfactory (D.D.H.) core recovery or satisfactory chip recovery from rotary holes. This has been overcome to some extent by more or less disregarding the least satisfactory D.D.H.'s and by giving rotary holes a lower weighting: areas of influence 2 unit-block lengths square.

This problem does not occur in Zone 1 and hardly at all in Zone 3 (except for the presence of one rotary hole contributing ore). Zone 2 is very much affected by both poor recovery of core and presence of rotary holes.

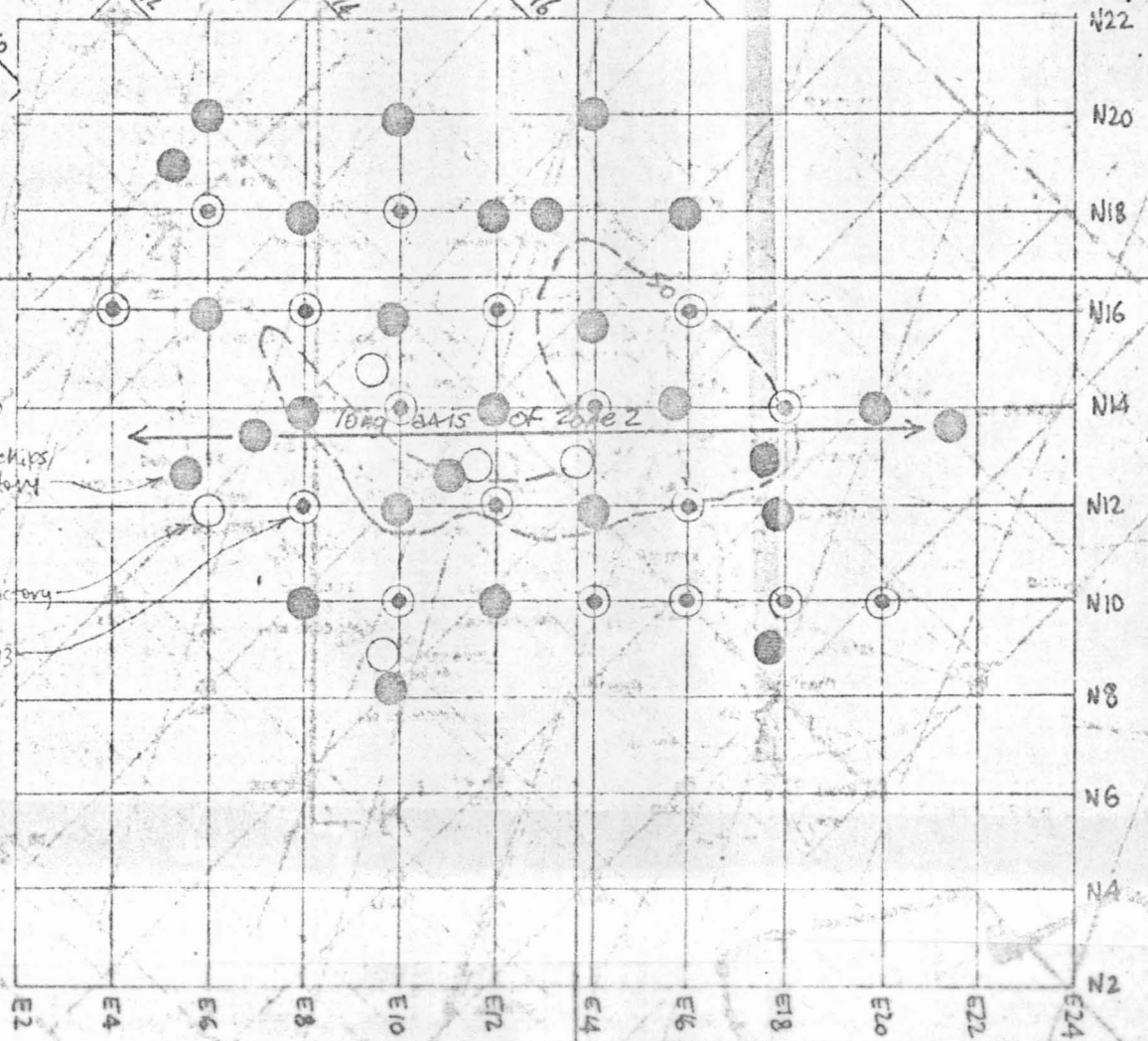
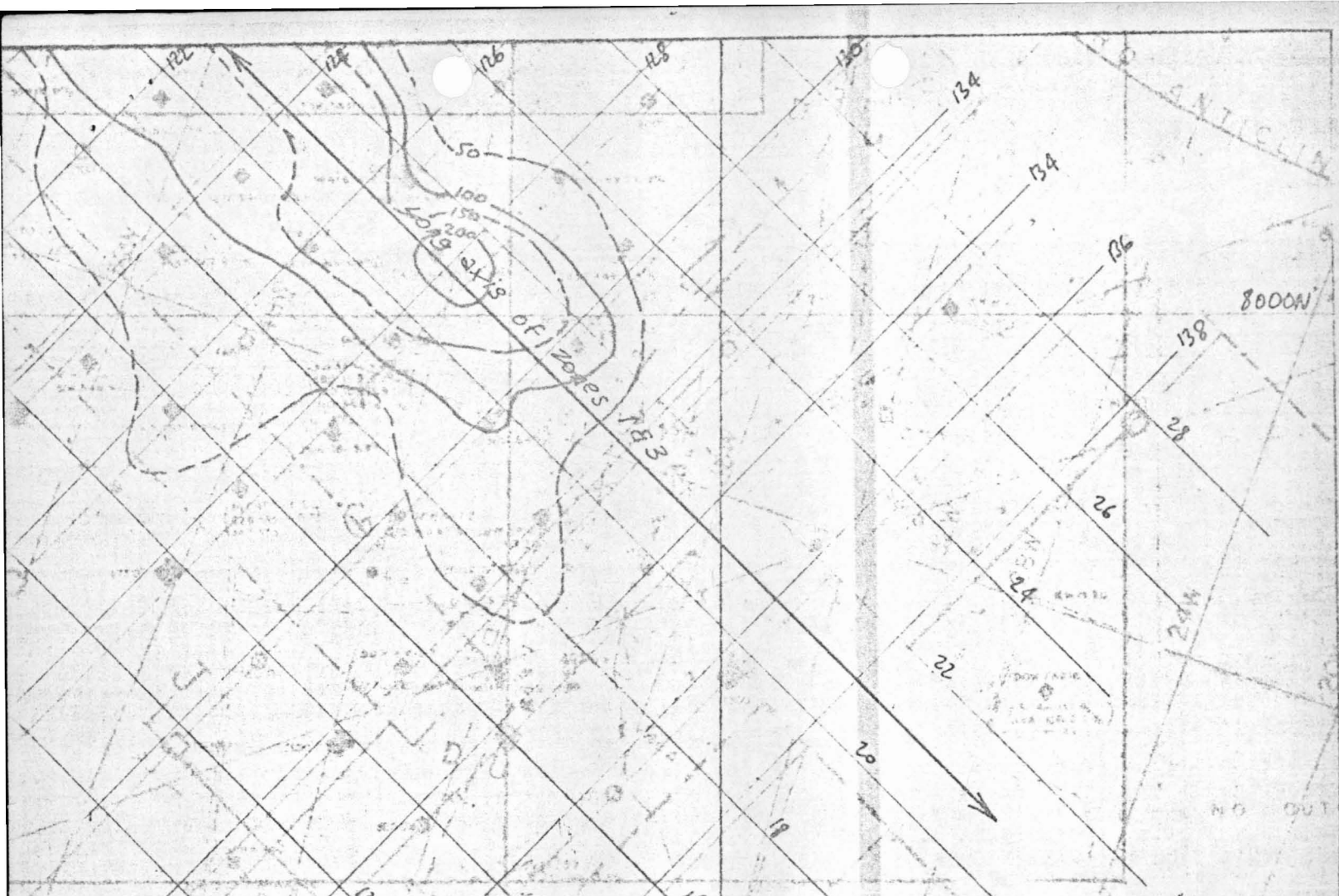
(iii) In Zone 2, the Zones 1 and 3 cross-sectional grid has been forced to fit what is, in fact, a unit of quite different orientation. A NS, EW (200 ft. square) grid is recommended. Attached are copies of the present and recommended grids.

P.M. Pettigrew.

P. M. Pettigrew
Geologist

PMP/mm

Attach.



Sketch showing relationship of suggested zone 2 grid to revised zones 1 & 3 grid
 Note northward shift of transverse sections south of #122 due to error in original grid.

16000E

Scale: 1" = 400'