

MEMORANDUM

TO: W. KRATS FROM: P. M. Pettigrew
SUBJECT: Pit Stability Overburden Drilling DATE: September 25, 1972.

In a report dated August 22, 1972, K.I. Morrison of Ripley, Klohn & Leonoff International Limited, suggested that a programme of overburden drilling be carried out to test the extent of a "Sensitive blue silt". Between August 17 and September 6, 1972 this programme was completed at a total cost of just under \$17,000.

A Longyear diamond drill owned by Arctic Diamond Drilling Limited of Whitehorse triconed 16 holes to a total depth of 1675'. The holes were all drilled to bed-rock and a short distance beyond. Sludge samples were collected every 5' and these were examined and logged by the writer, who also layed out the approximate 300' x 300' grid as shown in the attached sketch with their surveyed locations and the location of the 4135 crest and toe as at July 31st, 1972.

Also attached is an isometric projection summarizing the results with interpreted correlations. There appear to be a minimum of 3 lenses of silt and/or clay within the sequence of well-sorted glacial sands, grits, pebbles and boulders. These are numbered on the diagram in reverse order of deposition.

Thus lens #1 is uppermost and is exposed in the 4135 face.

Lens #2 is the most extensive of the three and was

exposed in the area examined by Morrison.

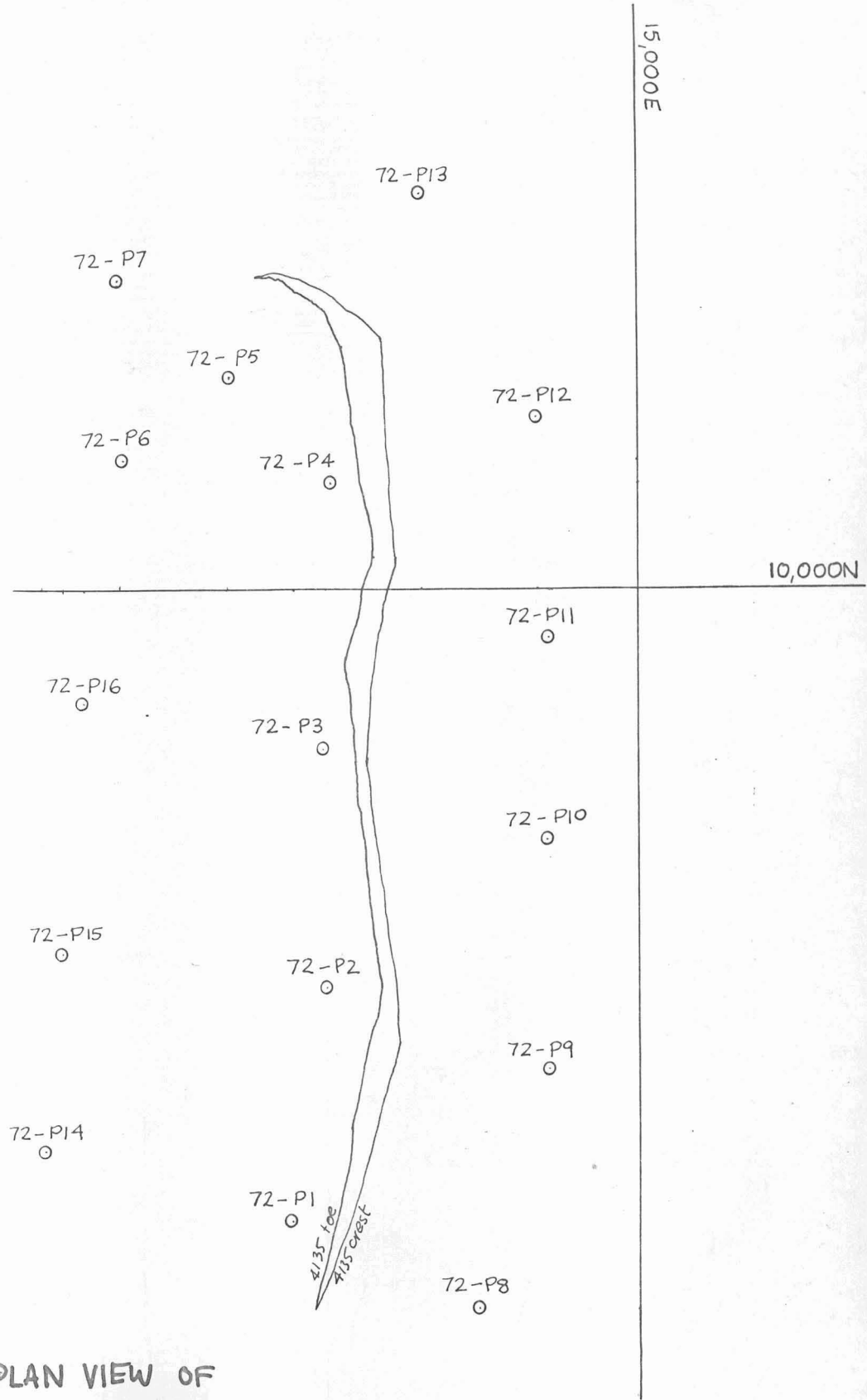
The lowest lens is largely a veneer overlying bedrock in its northern extremity and to the south overlying and, in hole 72-P14, enclosed within a boulder horizon.

Since these lenses are not much over one bench thick they should not provide insurmountable problems to stripping. The head-wall alluvium seems to contain very little of this material and thus any fairly conservatively developed head-wall should be quite safe as far as that source of sloughing is concerned.

P. M. Pettigrew

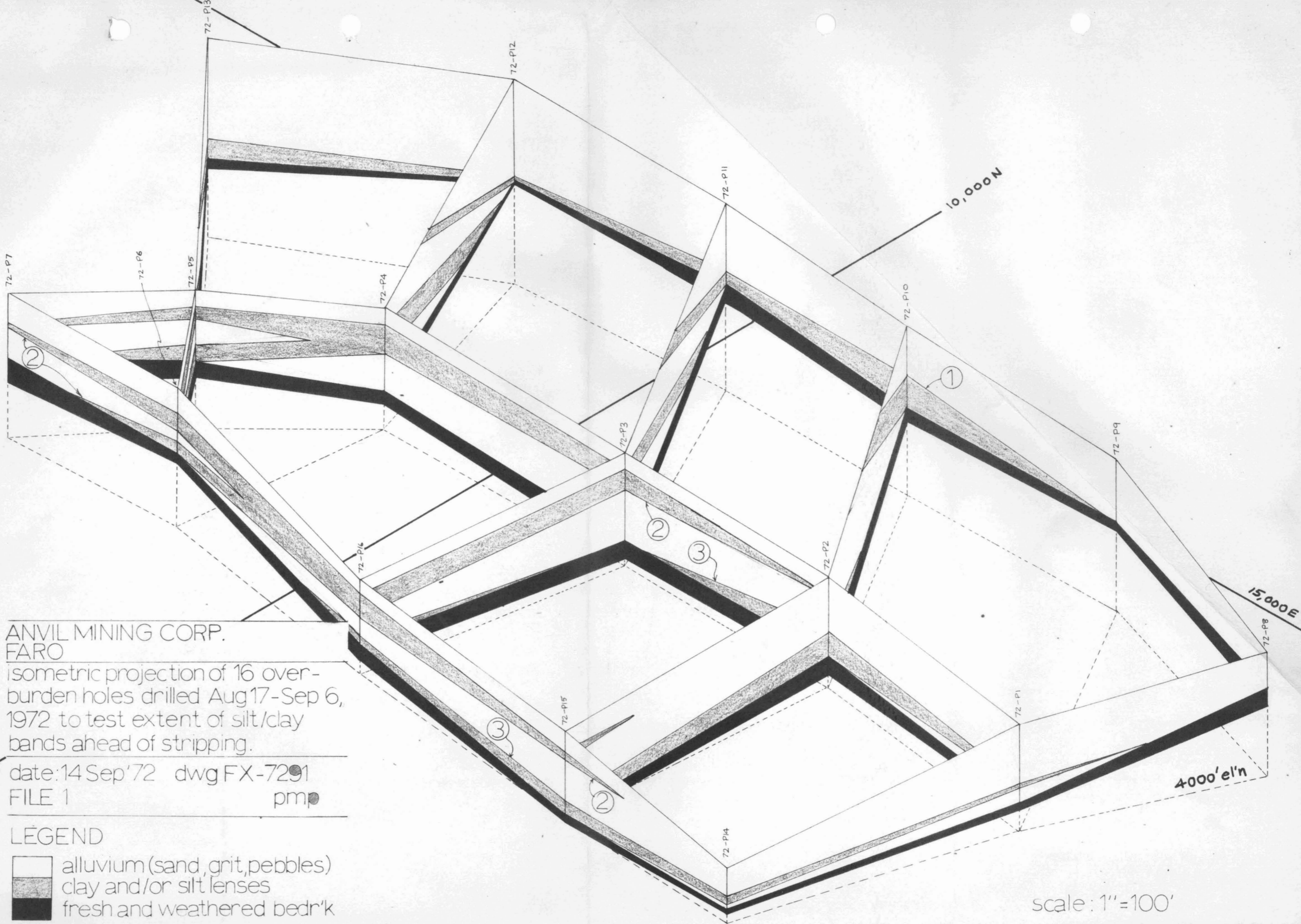
P. M. Pettigrew,
Geologist.

c.c. D. Philip.



PLAN VIEW OF
 16 HOLES DRILLED IN
 OVERBURDEN AHEAD OF
 STRIPPING
 AUGUST 17 - SEPTEMBER 6, 1972

SCALE: 1" = 200'



ANVIL MINING CORP.
FARO

isometric projection of 16 overburden holes drilled Aug 17-Sep 6, 1972 to test extent of silt/clay bands ahead of stripping.

date: 14 Sep '72 dwg FX-7291
FILE 1 pmp

LEGEND

- alluvium (sand, grit, pebbles)
- clay and/or silt lenses
- fresh and weathered bedr'k

scale: 1" = 100'