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Geophoto Minerals Report 1973/3

Summary Report on Sampling of Great
South Comet Mine No. 1 East Crosscut
(Adit No. 1), E.L.7/68 - Dundas

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Texins Development Pty. Limited.

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GEOPHOTO MINERALS REPORT 1973/3

SUMMARY REPORT ON
SAMPLING OF GREAT SOUTH COMET MINE
NO. 1 EAST CROSSCUT (ADIT NO. 1)
E.L.7/68 - DUNDAS

PREPARED BY

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5th April, 1973

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INTRODUCTION

The sampling of Crosscut No. 1 was done to investigate the mineralization and character of No. 1 and No. 2 Lodes of the Great South Comet Mine. These lodes were defined by drilling and were not included in the channel sampling of Adit No. 1 carried out in June, 1972. These subsurface lodes are also exposed in Adit No. 3; along the Main Drive where Lode 1 was traced for a distance of 302 feet; as well as No. 3 and No. 4 West Crosscuts. Access in the latter is often difficult with timber supports covering most of the side walls.

No. 1 East Crosscut starts at 793 feet from the portal of Adit No. 1 and penetrates a distance of 44 feet on a bearing of 94° . At 17 feet from the entrance this crosscut exposes the No. 2 Lode and, at 31ft 8in., No. 1 Lode is intersected and is followed along the strike by two short drives. The North Drive is 21 feet long and the South Drive is 26 feet long (see Drg. XC1).

The chip sampling was carried out along the back of the crosscut. Samples were taken at 2 foot intervals starting from a station located 7 feet from the entrance. Additional samples at closer intervals were taken across the width of Lode 2 and across the back of the drives put along Lode 1.

*was
back
cleaned
off first?*

On the assay sheet (field sheet number 007406), the 2 foot interval samples are indicated by the letters 1EX; the lode samples are indicated by the letter C. The location of these lode samples is as follows:

- | | |
|----|---|
| C1 | 17ft-20ft (chips every 3in.) |
| C2 | 31ft 8in.-35ft (chips every 6in.) |
| C3 | North Drive, 10ft from Crosscut
(chips every 4in. over a width of 3ft 7in.) |
| C4 | North Drive, 20ft from Crosscut
(continuous sampling over a width of 1ft 2in.) |

- C5 South Drive, 10ft from Crosscut
(chips every 4in. over a width of 3ft 9in.)
- C6 South Drive, 20ft from Crosscut (chips
every 3in. over a width of 3ft 3in.)

INTERPRETATION OF RESULTS

Drawing XC1 is a plan view of the No. 1 East Crosscut and the individual assay stations of the lode samples. These data were used to obtain indications of the mineral grade exposed in the Crosscut and Drives.

Lode 1

Five samples : C2, C3, C4, C5, C6

Factor	WxF	% Pb	% Zn	ppm Ag	WxFx % Pb	WxF % Zn	WxFx ppm Ag	
C2	1	3.3	1	2.8	17	3.3	9.25	56.1
C3	1	3.6	1.4	4.7	5	5.05	16.95	18
C4	1	1.16	1.65	5.8	29	1.92	6.73	33.3
C5	1	3.7	2	1.5	22	7.40	5.55	81.5
C6	1	3.26	2.1	24	78	6.85	78.20	254
	5	15.02				24.52	116.68	442.9

Combined assay average along the drive (47ft) :-
3ft - 1.67% Pb, 7.79% Zn, 0.9oz Ag.

Lode 2

One sample : C1

3ft - 0.6% Pb, 2.2% Zn, 0.4oz Ag

Taylor (1950), by averaging random samples from both Adit 1 and Adit 3, obtained these values:-

Lode 1 3ft - 5% Pb, 11% Zn, 3.4oz Ag

Lode 2 3ft - 1.4% Pb, 3.7% Zn, 0.5oz Ag

Taylor's sampling was very irregular and he apparently collected samples only where there was evidence of mineralization (as shown on his longitudinal map). He then appears to have extended the combined assay averages along the whole length of the Adits computing 'ore reserves' of 45,000 tons for both Lode 1 and Lode 2. This procedure now cannot be considered valid due to the known lenticular nature of the mineralization within the Kosminsky-South Comet fracture zone.

Drawing XC2 shows a geochemical section along the Crosscut. Only the values of the 2ft interval samples have been plotted on 3-cycles log paper. The distribution patterns of Pb, Zn, Ag are very similar and regular. The two lodes are clearly defined. The positive slope with increasing above background values at the end of the Crosscut might indicate further occurrence of some mineralization in the wall rock.

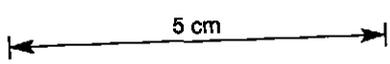
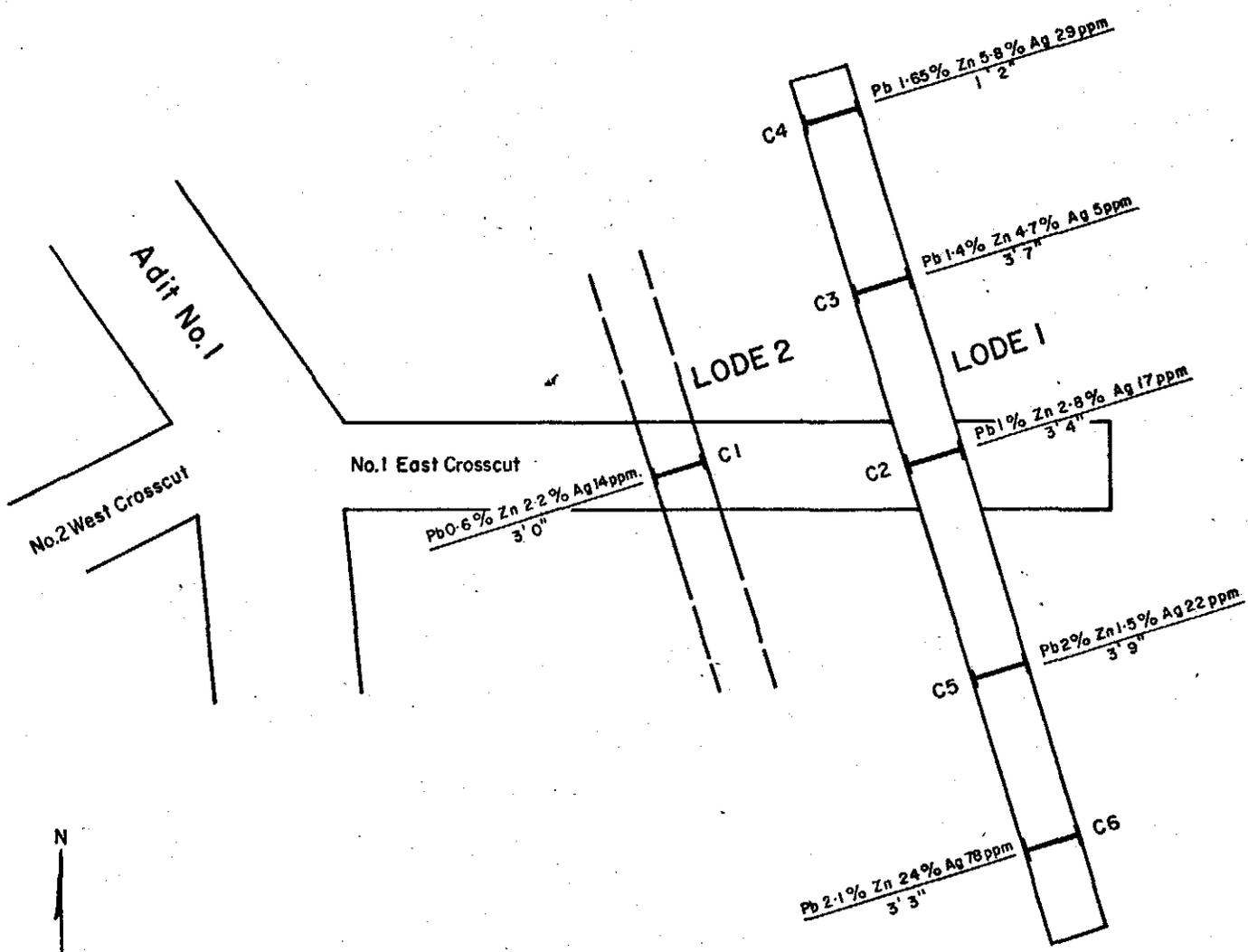
CONCLUSIONS

The data obtained in the limited sampling of Lodes 1 and 2, as exposed in No. 1 East Crosscut, seem to confirm the drilling results which indicated a lenticular, subeconomic line of mineralisation at present metal prices.

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EL.7/68 DUNDAS DISTRICT TASMANIA
 GREAT SOUTH COMET MINE
 Adit No.1 East Crosscut
 Assay Results



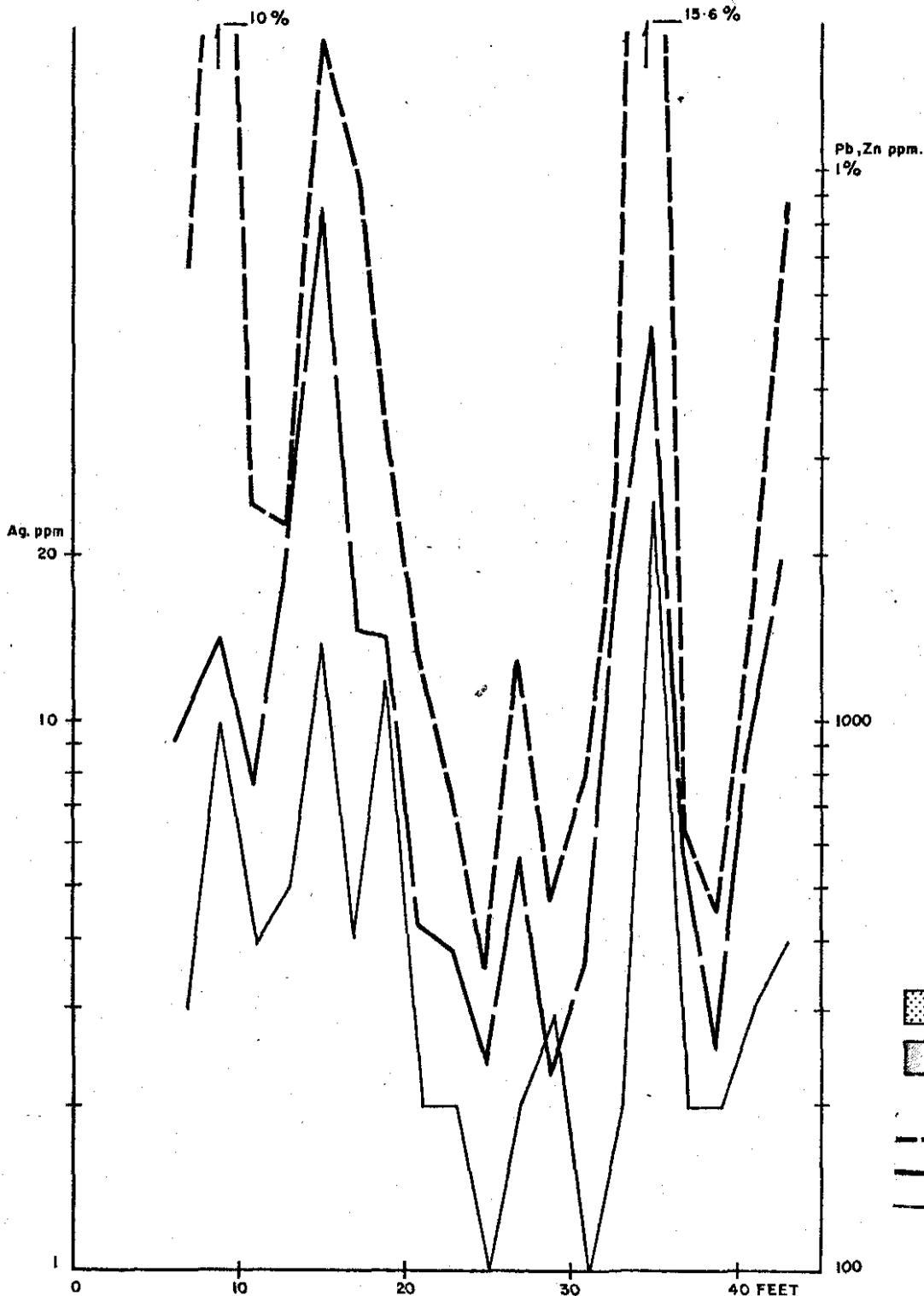
Scale: 10 feet to 1 inch



FIG. 1

E.L.7/68 DUNDAS DISTRICT TASMANIA
GREAT SOUTH COMET MINE
Adit No.1 East Crosscut
Geochemistry

5 cm



Pb, Zn ppm.
1%

Ag. ppm

20

10

1

1000

100

0 10 20 30 40 FEET

LEGEND

Micaceous sandstone

Siltstone

Zinc

Lead

Silver

LODE 2

LODE 1

N.W.

FeCO₃ vein
with ZnS and
minor PbS

FeS₂, FeCO₃
PbS blebs

1" wide vein
of ZnS

FeS₂, ZnS, PbS
veins

Abundant
FeCO₃ veins
with scattered
PbS, ZnS

S.E.

FIG. 2