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NEW CONSOLIDATED GOLD FIELDS (A'SIA) PTY. LIMITED.

REPORT NO. 12/1968

MICROFILMED

PROGRESS REPORT

ON

THE HENTY RIVER PROSPECT (S.P.L. 25)

TASMANIA

(EXCLUSIVE OF OPTIONED MINERAL LEASES
11M/66 and 12M/66)

by

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Geologist

6th JUNE, 1968

AMG REFERENCE POINTS ADDED

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ILLUSTRATIONS

<u>Plate No.</u>	<u>Description</u>	<u>Scale</u>
1	Reconnaissance Geological Plan	1" = 1000 ft.
2	Stream Sediment Sampling : ppm Lead (Spectrographic)	1" = 1000 ft.
3	Stream Sediment Sampling : ppm Zinc (Spectrographic)	1" = 1000 ft.

INTRODUCTION

GENERAL

This report covers the activities of the 1967-1968 field season in Special Prospectors Licence No. 25 exclusive of the area in the vicinity of the Queensberry mine described in N.C.G.F.A. Report No. 11/1968.

S.P.L. No. 25, of 9 square miles, lies midway between Zeehan and Queenstown, and is situated between the Professor Range to the north, and the Henty River to the north. The Licence, held by Mt. Lyell Mining and Railway Co. Limited, is due for renewal on the 19th July 1968.

ACCESS

Access is by foot track from Grieve Siding on the Zeehan-Strahan Railway formation. The track follows an old horse tramway to the Queensberry Mine (see Plate 1). Access lines off the tramway and cleared creeks shown on Plate 1 were completed in the 1967-1968 season, and permit access to Melody, Lode, and Bottle Creeks, and to the Henty River.

VEGETATION. PHYSIOGRAPHY

The detrital-covered ground at the foot of the Professor Range, and the peneplaned Ordovician sandstones and conglomerates to the north and northwest of the S.P.L., are open and button-grass covered. The deeply incised creek valleys flowing southward to the Henty River are covered by dense rain forest.

PREVIOUS REPORTS

There is no available record of previous work done away from the Queensberry Mine area. S.P.L. No. 25 lies just outside the southern margin of the Zeehan 1" = 1 mile sheet. This sheet, and the geological map of Tasmania, indicate Ordovician and/or Cambrian sediments in the area.

The Mines Department "Professor" mineral chart shows that in the past mineral leases were taken up along, and adjacent to, Lode and Melody Creeks, part of Bottle Creek, the Henty River directly south of the Queensberry Mine, and at the mouth of Malcolm Creek.

ACTIVITIES IN 1967-1968 FIELD SEASON

Using the Queensberry Mine camp as a base, about 7 days were spent in reconnaissance mapping and stream sediment sampling of parts of Melody, Lode and Bottle Creeks, and their tributaries (see Plate 1). Sediment samples were analysed spectrographically by Amdel, South Australia, for lead, zinc, copper, silver, tin and nickel. Sample localities are shown on Plates 2 and 3.

OBSERVATIONS AND RESULTS

Geology - General

Traverses along lower Bottle Creek, Lode Creek and lower Melody Creek revealed a continuation of the folded sequence of black shales, micaceous sandstones and chloritic crystal tuffs observed at the Queensberry Mine. The tuffs, found only in Melody Creek, were coarser than those at the mine.

Folding is along NW-SE axes and cleavage in this direction is fairly strong throughout this section.

In the more northern tributaries of Bottle Creek, westerly dipping laminated green shales were moderately cleaved along a N-S direction. Intense folding was not indicated. A trilobite found just north of the northern boundary of S.P.L. (Locality shown on Plate 1) was identified as an Asaphid with a time range from Upper Cambrian to Ordovician: an upper Cambrian age is reasonable, so that the green shales, at least, are in the Dundas group.

The contact of the (?) Cambrian sediments with the westerly dipping, folded Ordovician sediments in the western part of the S.P.L. has not yet been observed. The contact

*See one
for 6112*

is shown on the Zeehan sheet as a faulted one north of the S.P.L., but the parallel bedding of the Cambrian green shales and the basal Ordovician members suggests that they may be concordant. The 'Firewood Siding' Fault of the Zeehan sheet is clearly indicated on aerial photographs eastwards to the western margin of the S.P.L., but its course is as yet only inferred within the S.P.L.

Geology - Ore Mineralisation

Northwest striking quartz veins up to 12 inches in width, and numerous irregular veinlets, were observed in the crystal tuffs in Melody Creek. The resemblance to the Queensberry area is marked. However neither sulphides nor workings were observed.

Occasional minor and irregular quartz veining occurs throughout the shaley sequence. The major exception was a 15 feet wide, south easterly striking shear zone not far from the mouth of Bottle Creek (see Plate 1)

Poor results were obtained from a channel sample across a central quartz vein :-

	Width	%Pb.	%Zn	%Cu	ozs/ton Ag.	ozs/ton Au.
Shear Zone Bottle Creek	12"	Tr.	.033	.007	.045	Tr.

(Mt. Lyell Analysis)

Geochemistry - Stream Sediment Sampling

Threshold values were based on the sampling near the Queensberry mine (See N.C.G.F.A. Report No. 11/1968). Lead, zinc and silver were dispersed for a considerable distance down Lode Creek, from the Queensberry mine and mill.

Near the mine, only lead and zinc analyses are illustrated on the accompanying plans (Plates 2 and 3). Copies of working plans showing copper, silver, tin and nickel analyses are to be distributed separately to Consolidated Syndicate members. One lead and two zinc anomalies, of 100 ppm in each case, were found southwest of the mine and should be followed up.

In the Melody Creek area, a zinc anomaly of 200 ppm occurs in the tributary in which the highest lead value occurred. The highest copper value in this area also was from this tributary. Lead, zinc, silver and copper contents were low in other samples in this area. A value of 40 ppm of tin in one sample from the east tributary nearest to the mouth of Melody Creek, is of interest.

CONCLUSIONS

The occurrence of quartz-veined crystal tuffs similar to those in the Queensberry mine area makes the Melody Creek area the most interesting one from work to date, in spite of the rather discouraging results of stream sediment sampling. This area provides an interesting initial target in the search for the large ore deposits that must be found to justify further work in the Queensberry mine area.

Reconnaissance mapping of the area is still at an early stage, and must be continued along parts of Melody, Lode, and Bottle Creeks and their tributaries, and also along parts of the Henty River, before the area can be properly assessed.

RECOMMENDATIONS

The Melody Creek area should be examined in some detail, and then an appropriate soil sampling grid with lines at 500 ft. intervals should be cut. Up to 30,000 feet of line sampling may be involved. The mapping, soil sampling, surveying, etc. will occupy a Geologist and field assistant for perhaps 6 weeks.

Concurrently with this work, reconnaissance mapping and sediment sampling along the major creeks and their tributaries should be continued, using existing lines. This work, best accomplished when creek levels are low, will occupy a Geologist and field assistant for a further two weeks.

Further detailed work may, of course, result from this reconnaissance work.

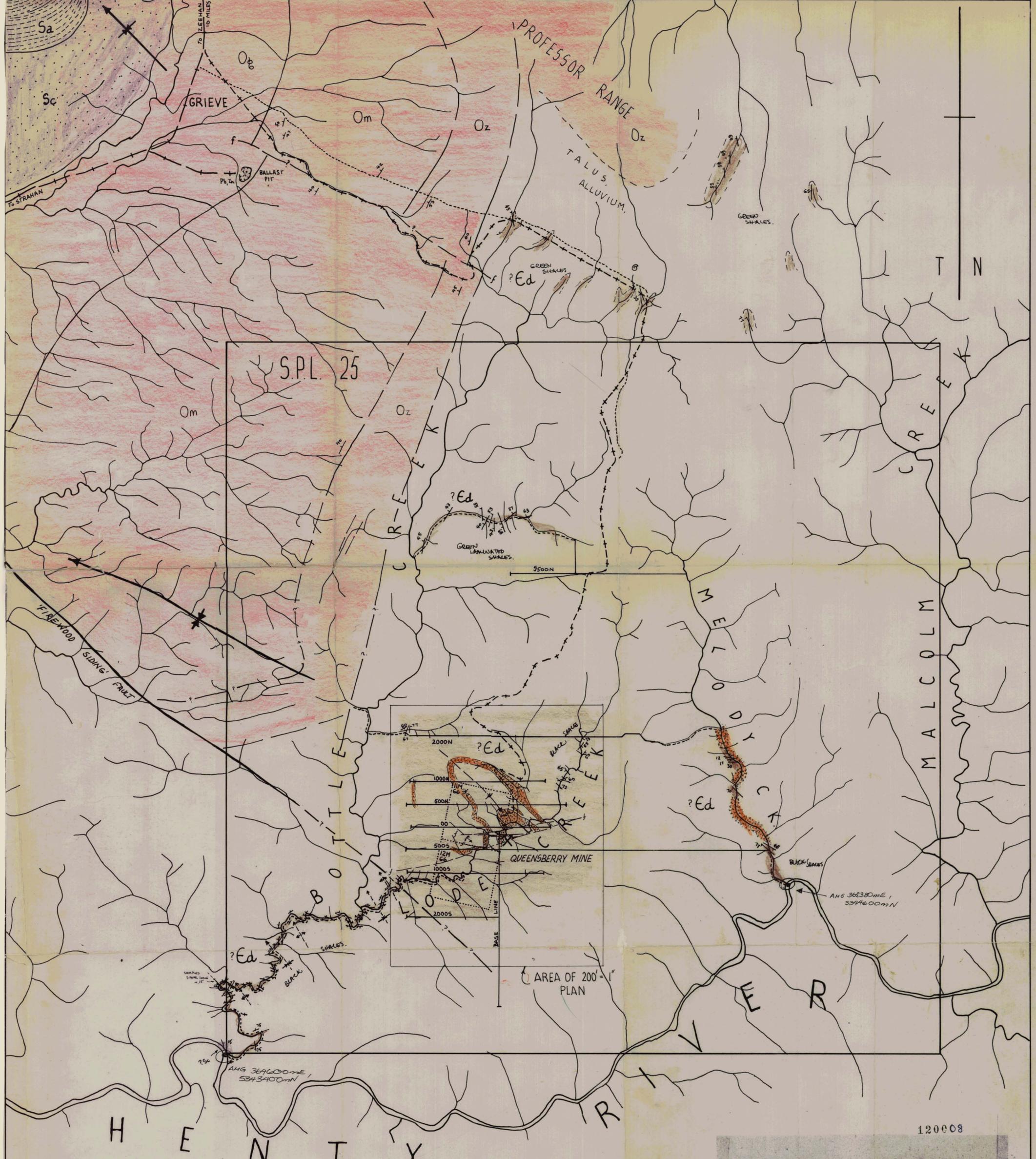
It is recommended that more use be made of a hired helicopter to provision the camp and permit maximum effective use of personnel.

D. L. Forsythe

D. L. FORSYTHE

Geologist

6th June, 1968



- | | | |
|------------|--|-------------------------------------|
| SILURIAN | | AMBER SLATE |
| | | CROTTY QUARTZITE |
| ORDOVICIAN | | GORDON LIMESTONE |
| | | MOINA SANDSTONE |
| | | MT. ZEEHAN (OWEN) CONGLOMERATE |
| ? CAMBRIAN | | VOLCANICS
DUNDAS GROUP SEDIMENTS |

- | | |
|--|---|
| | ZEEHAN-STRAHAN RAILWAY FORMATION (VEHICULAR ACCESS) |
| | DISUSED HORSE TRAM |
| | TRACK |

AMG REFERENCE POINTS ADDED

TO ACCOMPANY
N.C.G.F.A. REPORT NO. 12/1968. **PLATE No 1**

5 cm

NEW CONSOLIDATED GOLD FIELDS (ASIA) PTY. LTD.
CONSOLIDATED SYNDICATE EXPLORATION
SPL 25 HENTY R. PROSPECT
RECONNAISSANCE GEOLOGICAL PLAN
PRELIMINARY COPY
Scale 1000 FT. TO 1 INCH 23-5-68 D.L.F.

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S.PL 25

AREA OF 200'-1" PLAN

QUEENSBERRY MINE

G15 No 41763 -> 41824

120009

TO ACCOMPANY
N.C.G.F.A. REPORT NO. 12/1968

PLATE N°2

NEW CONSOLIDATED GOLD FIELDS (ASIA) PTY. LTD.
CONSOLIDATED SYNDICATE EXPLORATION
S.PL 25 - HENTY R. PROSPECT
STREAM SEDIMENT SAMPLING
p.p.m. LEAD (SPECTROGRAPHIC)
Scale 1000 FT. TO 1 IN. 25-5-68 D.L.F.

p.p.m. Pb

COLOUR KEY

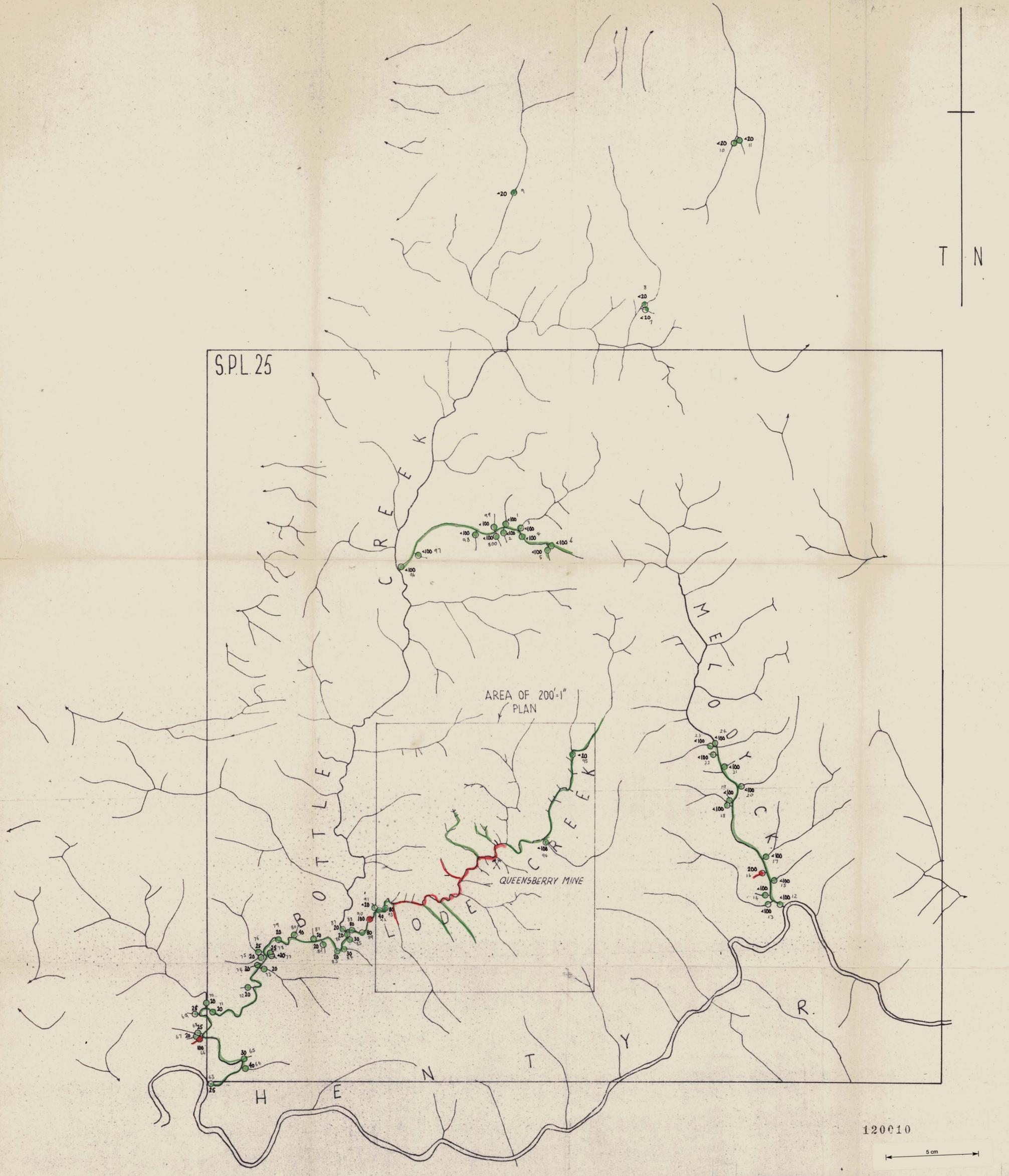
-  0 - 30
-  30 - 80
-  > 80

5 cm

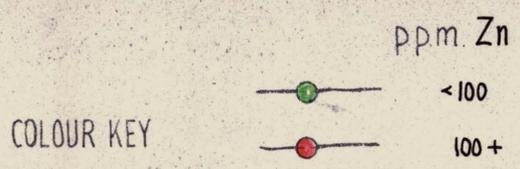
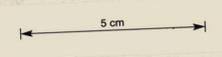


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S.P.L. 25



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NOTE: DETECTION LIMIT = 20ppm FOR LODE CK. AND LOWER BOTTLE CK. SAMPLES; ALSO TRIBUTARIES AT TOP OF PLAN.
 = 100ppm FOR REMAINING SAMPLES.

TO ACCOMPANY
 N.C.G.F.A. REPORT NO. 12/1968. **PLATE N°3**

NEW CONSOLIDATED GOLD FIELDS (ASIA) PTY. LTD.
 CONSOLIDATED SYNDICATE EXPLORATION
 S.P.L. 25 - HENTY R. PROSPECT
 STREAM SEDIMENT SAMPLING
 ppm. ZINC (SPECTROGRAPHIC)
 Scale 1000 FT. TO 1 IN. 25.5.68 D.L.F.