

THE NEWEE CREEK SILVER PROSPECT
NAMBUCCA HEADS (INTERIM REPORT)

by

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OCTOBER 1967

INTRODUCTION

A preliminary geological survey of the Newee Creek Silver Prospect was carried out by geologists I. A. Menzies and G. C. Sylvester from the 12th to 14th September, 1967, following requests by W. S. McColl and P. H. Wakeling who hold mining titles over the area.

The prospect is situated approximately three miles west of Nambucca Heads and lies immediately adjacent to the Nambucca Heads-Bowraville road and the North Coast Railway. The following mining titles embrace the prospect area:-

PARISH NAMBUCCA, COUNTY RALEIGH

ML 4	held by W. S. McColl	lease No. 5626
ML 5	" " M. L. Hart	" " 5625
ML 8	" " W. S. McColl	" " 5626
ML 9	" " W. S. McColl	" " 5626

Section 17 granted to P. H. Wakeling over 60 acres (application No. 69, Macksville).

NATURE OF SURVEY

The prospect was subject of a prior report (Loudon, 1966) which described the local geology and mining history.

Work during the present survey was confined to the sampling of old workings and recent bulldozer cuts with a limited geochemical orientation survey. The geochemical survey consisted of a B - horizon soil sampling programme on two lines with sample intervals ranging from 50 to 100 feet. A base line was chosen on the strike of the line of



R00013829



D003099710

major openings. The - 85B.S.S. mesh fraction was collected in the laboratory and samples were analysed for antimony, silver, and gold. A limited number of samples were also analysed for arsenic.

The approximate positions (no accurate survey of the prospect area has been carried out) of assay and geochemical samples are shown on the accompanying plan (4488 C).

RESULTS

The assay samples returned the following results (from the old workings and bulldozer cuts):-

Sample No.	Au/ton	Ag/ton oz dwt gr.			As (%)	Sb (%)	Sample Location
67/3844	Tr.	9	18	0	5.6	< 0.1	2'6" quartz vein in railway cut
67/3845	Tr.	23	17	20	N.A.	N.A.	3'6" quartz vein in railway cut
67/3846	Tr.		Tr.		N.A.	N.A.	7'0" sediment between above veins
67/3847	Tr.	3	14	10	0.5	< 0.1	Dump at main shaft.
67/3848	Tr.	61	16	0	3.8	0.14	1'6" quartz vein in main shaft
67/3849	Tr.	0	9	5	N.A.	N.A.	0'2" quartz vein in costean
67/3850	Tr.	0	6	20	N.A.	N.A.	1'0" quartz vein in costean
67/3851	Tr.		Tr.		N.A.	N.A.	Quartz exudations in face of trench

Tr. = Trace (less than 1 dwt/ton) N.A. = Not assayed

The geochemical soil samples were assayed with the following results:-

(The results are summarised in graph form in Figure 1.)

SAMPLE NO.	GOLD (ppm)	SILVER (ppm)	ANTIMONY (ppm)	LOCATION (line No. & Sample)
67/3749	< 0.15	< 0.15	5.00	00/0
67/3750	< 0.15	< 0.15	2.00	00/50W
67/3751	< 0.15	< 0.15	2.75	00/100W
67/3752	< 0.15	< 0.15	1.00	00/150W
67/3753	< 0.15	< 0.15	1.25	00/200W
67/3754	< 0.15	< 0.15	1.00	00/250W
67/3755	< 0.15	< 0.15	0.75	00/300W
67/3756	< 0.15	< 0.15	1.00	00/400W
67/3757	< 0.15	< 0.15	1.50	00/500W
67/3758	< 0.15	3.75	3.25	00/54E
67/3759	< 0.15	< 0.15	0.75	00/150E
67/3760	< 0.15	< 0.15	2.25	00/200E
67/3761	< 0.15	< 0.15	1.25	00/300E
67/3762	< 0.15	< 0.15	1.25	00/400E
67/3763	< 0.15	< 0.15	1.25	00/500E
67/3764	< 0.15	0.90	4.25	500N (a)/0
67/3765	< 0.15	2.85	5.50	600N (a)/50E

SAMPLE NO.	GOLD (ppm)	SILVER (ppm)	ANTIMONY (ppm)	LOCATION (line No. & Sample)
67/3766	< 0.15	2.85	3.00	600N(a)/100E
67/3767	< 0.15	< 0.15	1.00	600N(a)/225E
67/3768	< 0.15	< 0.15	1.00	600N(a)/250E
67/3769	< 0.15	< 0.15	2.25	600N(a)/300E
67/3770	< 0.15	< 0.15	1.00	600N(a)/400E
67/3771	< 0.15	< 0.15	1.00	600N(a)/500E
67/3772	< 0.15	< 0.15	2.75	600N(a)/131E
67/3773	< 0.15	3.15	3.00	600N(a)/50W
67/3774	< 0.15	< 0.15	7.00	600N(a)/100W
67/3775	< 0.15	< 0.15	1.50	600N(a)/150W
67/3776	< 0.15	< 0.15	1.75	600N(a)/200W
67/3777	< 0.15	< 0.15	0.75	600N(a)/250W
67/3778	< 0.15	< 0.15	1.00	600N(a)/300W
67/3779	< 0.15	< 0.15	1.25	600N(a)/400W
67/3780	< 0.15	< 0.15	4.25	600N(a)/500W

RECOMMENDATIONS

The sharply outlined antimony and silver geochemical anomalies (Figure 1) obtained from the orientation survey, indicate that a more comprehensive geochemical programme is advisable. A further 30 B-horizon soil sample lines are proposed (at 100 feet spacing) and their recommended locations are plotted on the accompanying plan (4488 C).

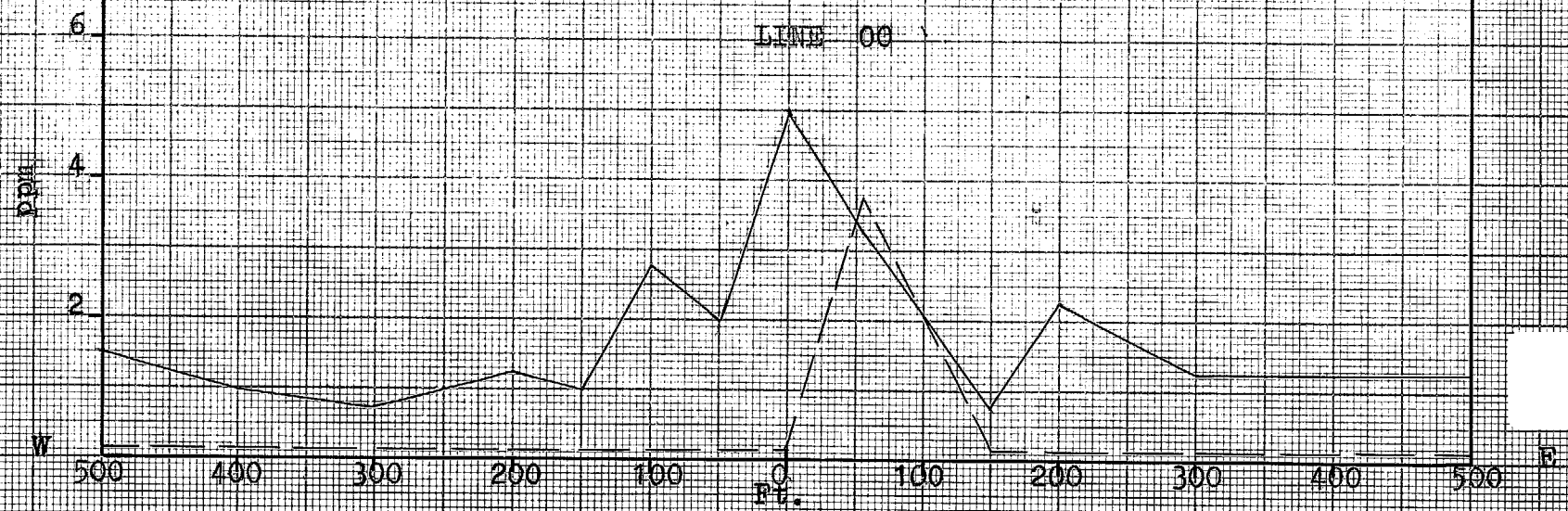
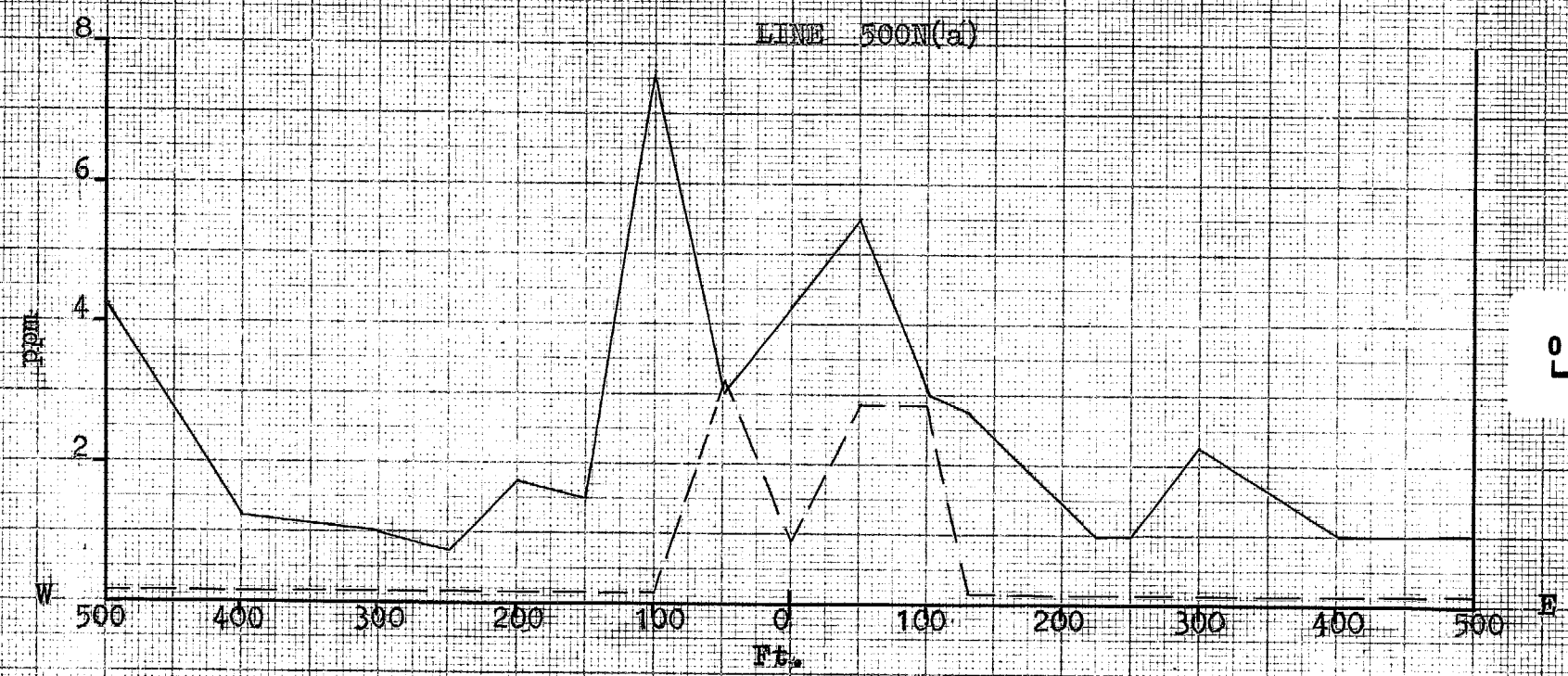
The aim of this more complete survey is to delineate a zone (or several zones) of anomalous geochemical values which may then be further prospected by new surface openings or perhaps diamond drilling.

REFERENCE

- Loudon, A. G., 1966 Newee Creek Silver Prospect, Nambucca Heads.
Geol. Surv. N.S.W. Rept. GS 66/092 (unpub.)

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FIGURE 1

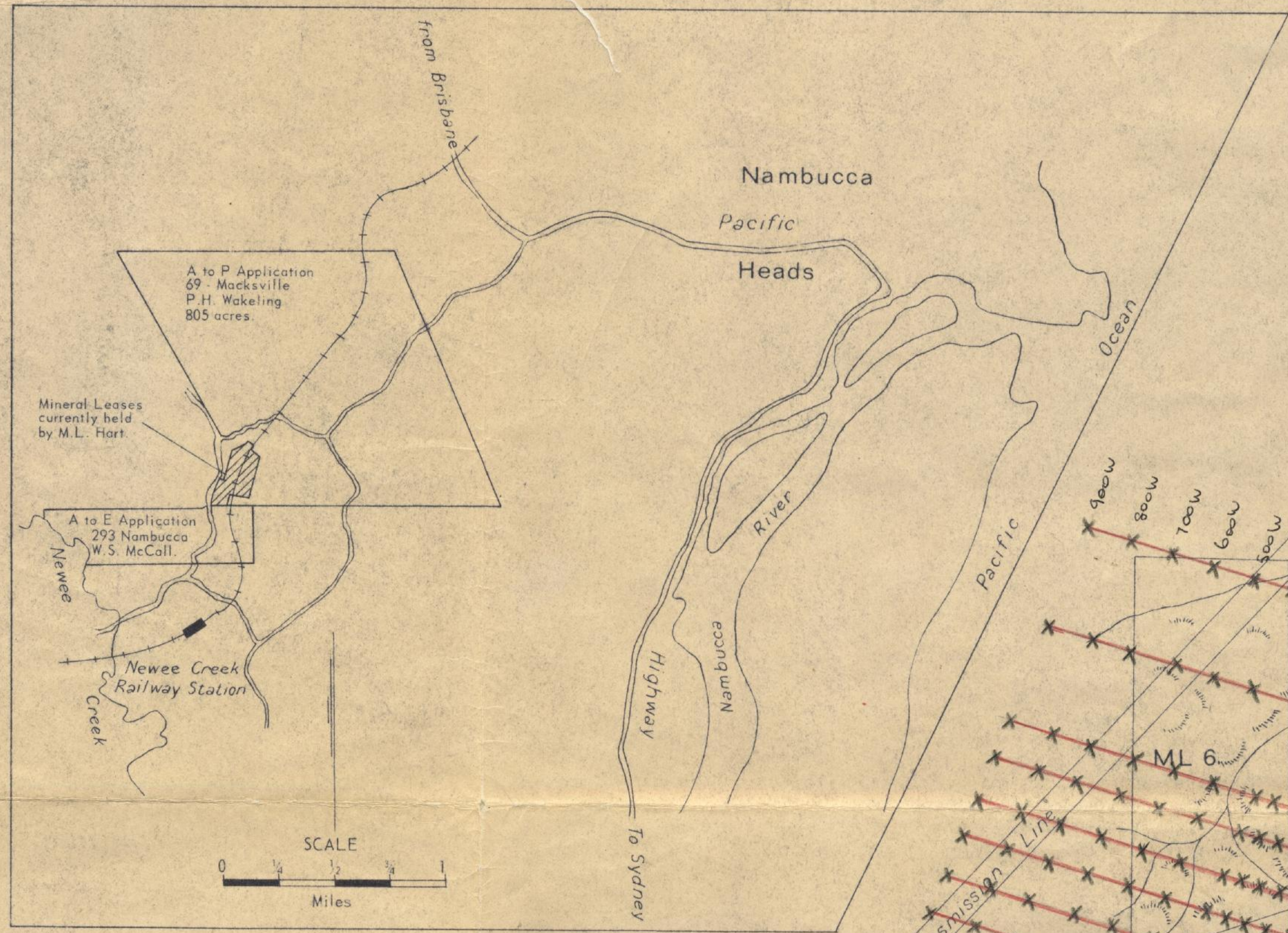


Sb
Ag

FS BW



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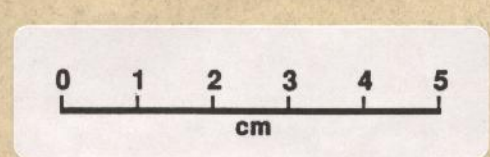
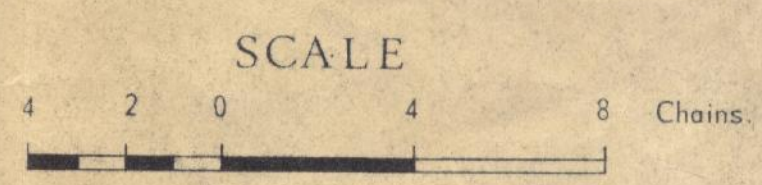
LOCALITY DIAGRAM

TN MN

In this area are numerous old shafts, costeans, pits and adits, many collapsed and overgrown, which apparently prospected numerous quartz veins and stringers of widely variable attitude.

LEGEND

- Portion or Lease Boundary.
- Area held under Lease.
- Area under Application For Authority to Enter.
- Creek.
- Base line
- Geochanical sample lines run showing position of samples taken
- Proposed geochanical sample lines showing position of samples



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Geological Survey of New South Wales
Department of Mines.

**NEWEE CREEK
SILVER PROSPECT
NAMBUCCA HEADS**
Parish Nambucca County Raleigh

To accompany report by A.G. Loudon.
Drawn by L. Kerslake.
4/11/66.

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