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ROSSARDEN E.L. 28/78

TASMANIA

REPORT FOR THE TWELVE MONTHS ENDING

OCTOBER 6, 1980

OPEN FILE

C.H. Young,
District Manager, Tasmania.

OCT 1980

Rec. 27-10-80

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<u>Plate No.</u>	<u>Title</u>	<u>Scale</u>
Ross 5 (In text)	Location E.L. 28/78	
Ross 6	Gipps Creek Area Section looking N.W.	1:1000

SUMMARY

E.L. 28/78 lies in north-eastern Tasmania surrounding the Aberfoyle and Storeys Creek Mines. In the north-western corner of the E.L. in the vicinity of Gipps Creek, a number of small tin-tungsten prospects occur, viz. the Long Tunnel Mines, Hayes Tungsten Prospect, Ben Lomond Tungsten Mine, Park and Baileys Section, Ben Lomond Tin Mine, Great Republic Mine and Rex Hill Mine. Of these, the latter four are held under lease to other parties. One of these, Hayes Tungsten Prospect, was mapped, sampled and drilled by A.T.N.L. in 1967-1968.

The tin-tungsten mineralisation of the Gipps Creek area occurs as fairly flat (20 to 50 degrees) easterly dipping quartz-tourmaline veins with greisen envelopes within the Ben Lomond Granite. Zones of sheeted quartz-tourmaline-cassiterite-wolframite veins with greisen envelopes up to 3 metres in thickness in altered granite are present. Veins are usually 5-10 cm in thickness carrying coarse cassiterite and wolframite.

Re-examination of core from the A.T.N.L. drilling of the Hayes Tungsten Prospect indicated that there was unsampled cassiterite bearing zones and an aplitic rock apparently containing disseminated wolframite. These zones are interpreted as the down dip extension of the sheeted veins and greisen envelopes of Park and Bailey's Section. The zones were assayed for Sn, W, Mo, Cu, Pb, Zn. The results indicate the Sn/WO₃ mineralisation is sub-ore grade. There remains potential for a shallow open pit operation in Park and Bailey's Section but this area is currently held under mineral lease 29 M/77 by Mr. D.E.M. Hayes.

The best potential for an economic tin-tungsten deposit in the Gipps Creek area probably lies in the sheeted veins and their greisen envelopes such as those in Park and Bailey's Section.

INTRODUCTION

Exploration Licence E.L. 28/78 (Rossarden) was applied for by Aberfoyle Exploration Pty. Ltd. in October 1978 over the area surrounding the Aberfoyle and Storeys Creek Mines.

A certain amount of previous work had been undertaken by Aberfoyle Tin N.L. (A.T.N.L.) in 1966-68 including diamond drilling.

This report describes assessment of tin-tungsten potential in the Gipps Creek area of E.L. 28/78, by means of geochemical analysis of drill core with aplitic and greisen zones, interpreted as the down dip extension of the Park and Bailey's Section sheeted veins and greisen zone.

LOCATION

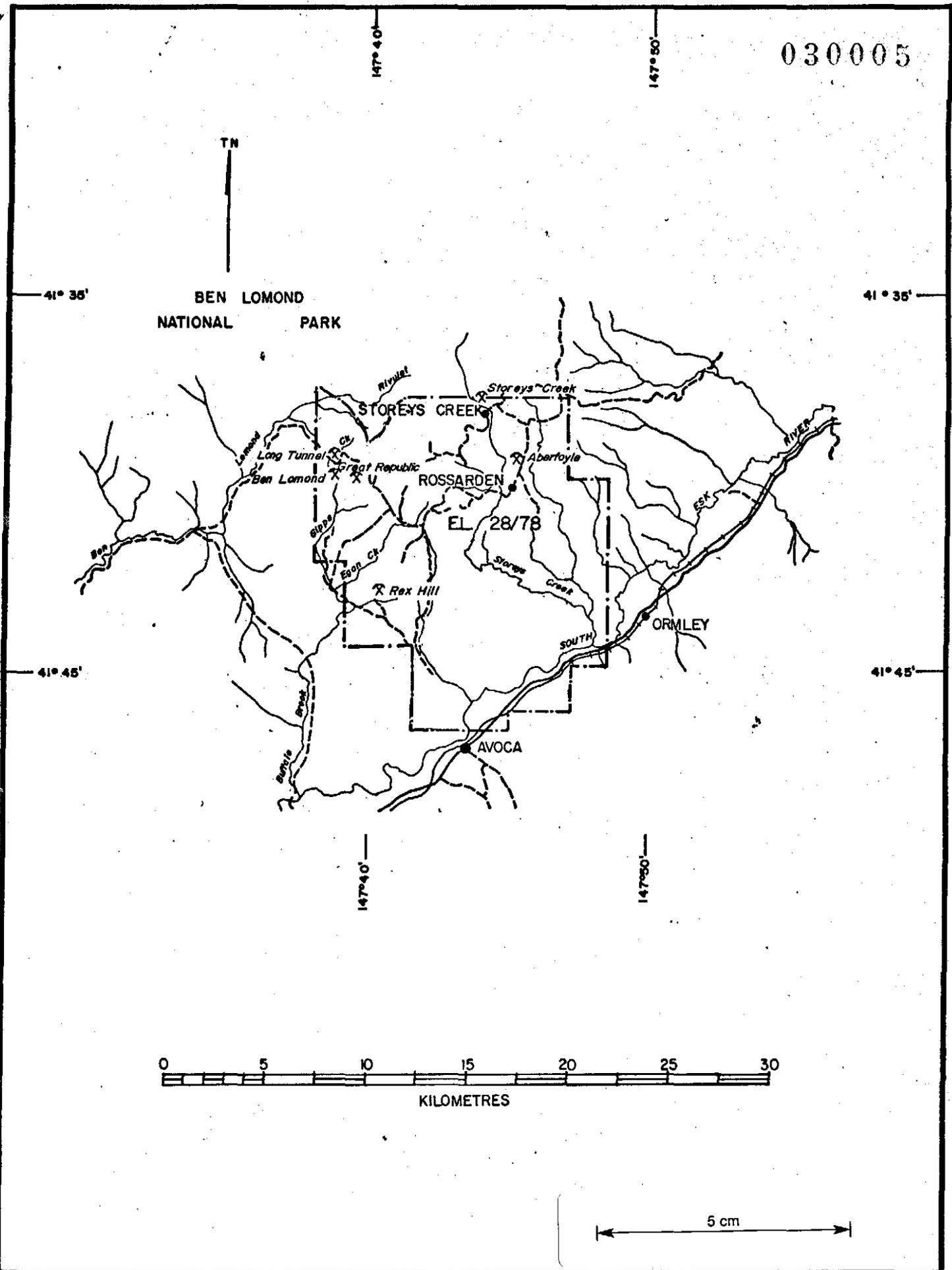
E.L. 28/78 lies in north-eastern Tasmania, 50 kilometres east-south-east of Launceston. The Gipps Creek area lies in the north-eastern corner of the E.L. and is accessible by forestry tracks in conventional vehicles (Plate Ross 5).

TENURE

E.L. 28/78 is 133 square kilometres in area and was granted on May 6, 1979. It encloses Consolidated Lease M.L. 27 M/77 held by Aberfoyle Tin Ltd. over the Aberfoyle and Storeys Creek Mine areas. A number of small tenements in the Gipps Creek area over known prospects are held by various parties, most by D.E. Thomas and D.E.M. Hayes. Of the prospects covered by small tenure, the Ben Lomond Tin Mine, the Great Republic and the North Republic Mines are the most important. Two small leases are held by R. Brinkman over the Rex Hill Tin Mine.

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Aberfoyle Exploration Pty Ltd

Drawn:	
Traced:	JJB
Checked:	
Revised by:	Date:

NORTH EAST TASMANIA
ROSSARDEN E.L. 28/78

LOCATION PLAN

Location code:	
Date:	August 1979
Scale:	1: 250,000
Plate No	ROSS 5

PARK AND BAILEY'S SECTION (D.E.M. HAYES ML 29 M/77).

These workings occur to the north of the Ben Lomond Tungsten Mine, across Gipps Creek and 150 metres west of Hayes Tungsten Prospect. These prospects are described in some detail by Waller (1901) and Mackintosh Reid & Henderson (1929), but are again difficult to reconcile on the ground. The present mapping shows that this prospect probably consists of three main veins or zones, striking approximately 350 degrees and dipping easterly at 20 to 40 degrees and occurring over a zone 30 to 50 metres in width. A strike length of about 250 metres is indicated. Coarse wolframite and slightly rarer cassiterite are present on the dumps and in the accessible workings. The workings are shallow with the lodes being mined by adit and underhand stopes.

Where exposed in shallow open cuts the mineralisation is seen to be quartz-tourmaline-wolframite-cassiterite-sulphide veins, usually <10 cm in width surrounded by envelopes of quartz-muscovite-tourmaline greisen. Up to four veins may be seen in a zone 3 to 4 metres in width. The width of the greisen envelope seems to vary more rapidly than the vein and may pinch and swell from <5 cm to >20 cm over a few metres of strike length. The granite outside the envelopes is extensively altered to white mica and tourmaline.

CORE ANALYSIS

A.T.N.L. completed 4 diamond drill holes in the Hayes Tungsten Prospect in 1967-1968. Two of these, GCS 1 and GCS 2 contain cassiterite bearing zones and an aplitic rock apparently containing disseminated wolframite. It is interpreted that these zones are the down dip extension of the sheeted vein and greisen zones outcropping in Park and Bailey's Section. To evaluate the potential for a large low grade Sn/WO₃ deposit, the drill core was sampled in 1 metre intervals and assays conducted for Sn, W, Mo, Cu, Pb, Zn. The results, plotted on Plate Ross 6, confirm the presence of disseminated Sn and WO₃ but values are too low to be of economic interest.

EVALUATION OF OPEN CUT POTENTIAL, ABERFOYLE

It is proposed to evaluate the potential of open cut mining of part of the Aberfoyle vein system. Preliminary testing will involve seven percussion drill holes for 980 metres. Should this initial appraisal indicate viability then a number of prospects within the area of the Exploration Licence will warrant evaluation.

STRUCTURAL CONTROL OF ORE AT ABERFOYLE

An Honours Thesis titled "The Emplacement and Geometry of the Mineralised quartz veins of the Rossarden-Storey's Creek Area, Tasmania." was completed in 1979 by Mr. K.J. Hellsten of Monash University. In this thesis Hellsten points out that the geometry of the major vein systems is controlled primarily by the overall shape of the batholith. The veins are approximately radial to the granite, tangential to the western sides of cupolas and strike parallel to their direction of elongation.

RECOMMENDATIONS

An agreement with the owner of Park and Bailey's Section should be negotiated and then further sampling of the prospect conducted by trenching and/or percussion drilling. The aim being to define a zone of Sn/WO₃ mineralisation in the Hayes Tungsten Mine - Park and Bailey's Section area which may be amenable to small scale open pit mining.

Should the viability of open pit mining the Aberfoyle vein system be confirmed then other sheeted vein deposits within the Exploration Licence area with potential for open pit mining require definition. A programme of air photo interpretation to study the vein distribution, as suggested by Hellsten's thesis is recommended.

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FINANCE

In the twelve months ending October 6, 1980, the following expenditures were incurred:

Salaries and Wages	400
Accommodation and Travel	305
Material	90
Assaying	300
Drafting	125
Tenure	421
Sundries	7
Administration	<u>247</u>
	<u>\$1,895</u>

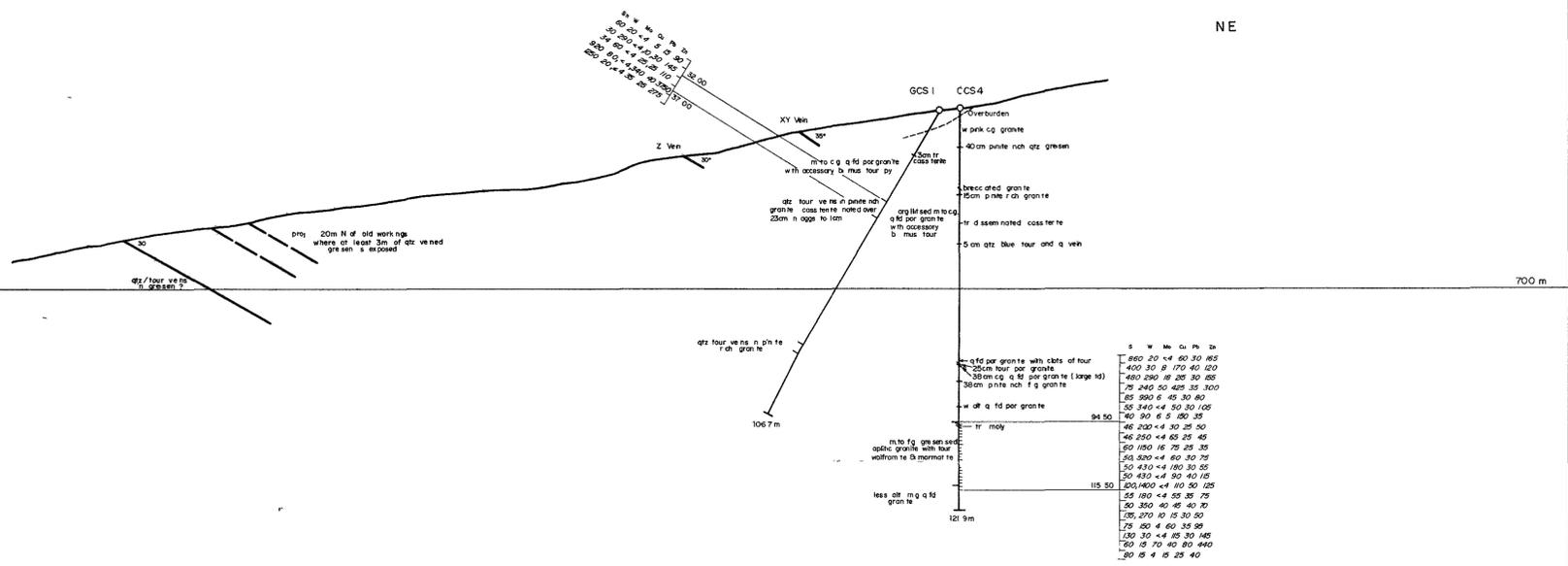
REFERENCES

- Hellsten, K.J. (1979) The Emplacement and Geometry of the Mineralised Quartz Veins of the Rossarden - Storey's Creek area, Tasmania. Monash University, Hons. Thesis.
- Ransom, D.M. (1979) Rossarden E.L. 28/78 Tasmania. Report for the six months ending October 6, 1979.

SIGNED: *C.H. Young*
 C.H. Young,
 District Manager, Tasmania.

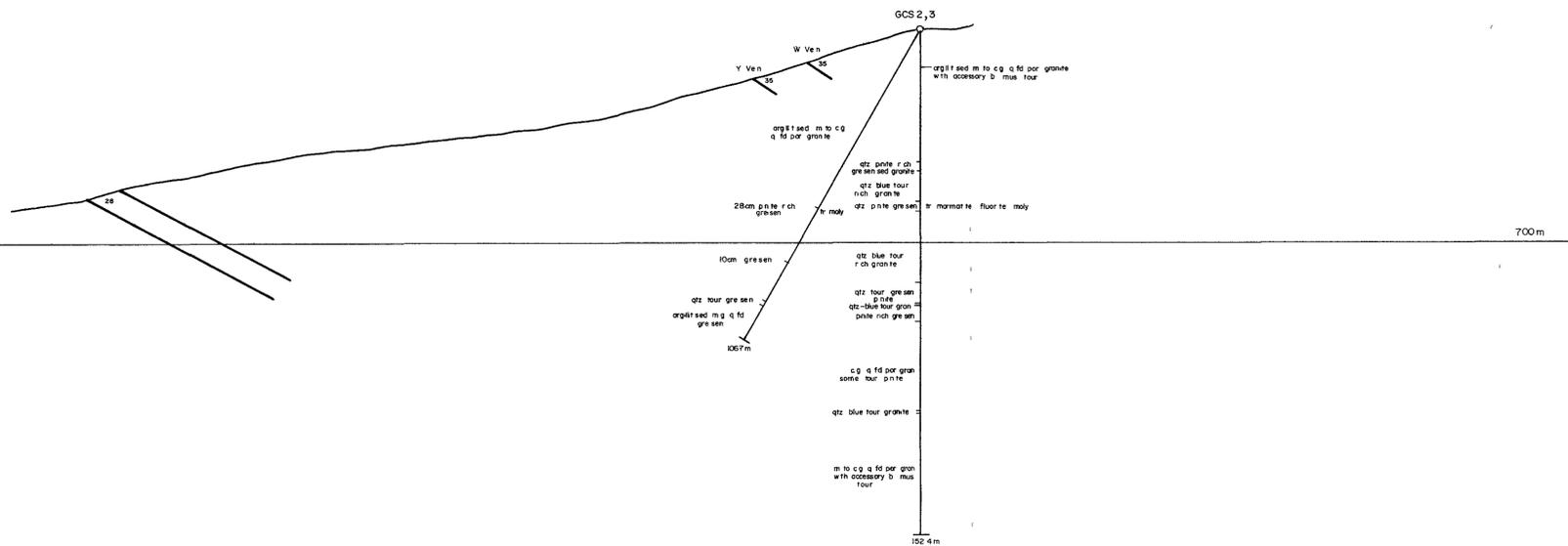
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30-1496		Aberfoyle Exploration Pty Ltd	
Geology	CHY	NORTH EAST TASMANIA ROSSARDEN EL 28/78	
Drawn	RJE	GIPPS CREEK AREA	
Traced	RJE	SECTIONS LOOKING NW 003	
Checked		Location code	Ross 6
Revised by	Date	Date	October, 1979
		Scale	1:1000
		Plate No	